Table 2-1. Round 3B Surface Sediment Sample Summary.

| Sample ID | Date Sampled | Bioassay | Grain Size and Specific Gravity | SVOCs | Pesticides | PCB Aroclors | TPH-Dx | Ammonia | Metals + Hg + TS + TOC | Total Sulfides | Dioxins/ Furans | PCB Congeners | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-G600** | 11/28/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G601** | 11/28/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G602** | 11/27/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G603** | 11/27/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G604** | 11/27/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G605** | 11/27/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G606** | 11/27/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G607** | 11/27/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G608** | 11/27/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G609** | 11/28/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G611** | 11/27/2007 | | X | X | X | X | X | | X | | X | | X |
| **LW3-G612-1** | 11/14/2007 | X | X | X | X | X | X | X | X | X | X | | X |
| **LW3-G612-2** | 11/14/2007 | | X | X | X | X | X | | X | | X | | |
| **LW3-G613** | 12/5/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G614** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G616** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G617** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G618** | 11/27/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G619** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G784** | 11/28/2007 | | X | X | X | X | X | | X | | X | | X |
| **LW3-G620** | 11/27/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G621** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G622** | 11/14/2007 | X | X | X | X | X | X | X | X | X | X | | X |
| **LW3-G623** | 11/14/2007 | X | X | X | X | X | X | X | X | X | X | X | X |
| **LW3-G624** | 11/27/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G625** | 11/14/2007 | X | X | X | X | X | X | X | X | X | X | | X |
| **LW3-G626** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G627-1** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G627-2** | 11/27/2007 | | X | X | X | X | X | | X | | | | |
| **LW3-G628** | 11/14/2007 | X | X | X | X | X | X | X | X | X | X | X | X |
| **LW3-G629** | 11/27/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G630** | 11/27/2007 | | X | X | X | X | X | | X | | X | | X |
| **LW3-G631** | 11/27/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G632** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G633** | 11/27/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G634** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |

Table 2-1. Round 3B Surface Sediment Sample Summary.

| Sample ID | Date Sampled | Bioassay | Grain Size and Specific Gravity | SVOCs | Pesticides | PCB Aroclors | TPH-Dx | Ammonia | Metals + Hg + TS + TOC | Total Sulfides | Dioxins/ Furans | PCB Congeners | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-G635** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G636** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G637-1** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G637-2** | 11/15/2007 | | X | X | X | X | X | | X | | | | |
| **LW3-G637-3** | 11/15/2007 | | X | X | X | X | X | | X | | | | |
| **LW3-G638** | 11/14/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G639** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G641-1** | 11/27/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G641-2** | 12/3/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G642** | 11/28/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G643** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G644** | 11/28/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G646** | 11/28/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G647** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G648** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G649** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G650** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G651** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G652** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G653** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G654** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G655** | 11/28/2007 | | X | X | X | X | X | | X | | X | | X |
| **LW3-G656** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G657** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G658** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G659-1** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G659-2** | 11/28/2007 | | X | X | X | X | X | | X | | | | |
| **LW3-G660** | 12/3/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G663** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G664** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G665** | 11/15/2007 | X | X | X | X | X | X | X | X | X | X | X | X |
| **LW3-G666** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G667** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G668** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G669** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G670** | 11/26/2007 | X | X | X | X | X | X | X | X | X | X | X | X |

Table 2-1. Round 3B Surface Sediment Sample Summary.

| Sample ID | Date Sampled | Bioassay | Grain Size and Specific Gravity | SVOCs | Pesticides | PCB Aroclors | TPH-Dx | Ammonia | Metals + Hg + TS + TOC | Total Sulfides | Dioxins/ Furans | PCB Congeners | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-G671** | 11/15/2007 | X | X | X | X | X | X | X | X | X | X | X | X |
| **LW3-G672** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G673** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G674** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G675** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G676** | 11/29/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G677** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G680** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G681** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G682** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G683** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G684-1** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G684-2** | 11/26/2007 | | X | X | X | X | X | | X | | | X | |
| **LW3-G684-3** | 11/26/2007 | | X | X | X | X | X | | X | | | X | |
| **LW3-G685** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G686** | 11/29/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G687** | 11/30/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G689** | 11/16/2007 | X | X | X | X | X | X | X | X | X | X | X | X |
| **LW3-G691** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G692-1** | 12/4/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G692-2** | 12/4/2007 | | X | X | X | X | X | | X | | X | X | |
| **LW3-G692-3** | 12/4/2007 | | X | X | X | X | X | | X | | X | X | |
| **LW3-G693** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G694** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G696** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G697** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G699** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G700** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G705** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G706** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G707** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G710** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G711** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G713** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G715** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G716** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |

Table 2-1. Round 3B Surface Sediment Sample Summary.

| Sample ID | Date Sampled | Bioassay | Grain Size and Specific Gravity | SVOCs | Pesticides | PCB Aroclors | TPH-Dx | Ammonia | Metals + Hg + TS + TOC | Total Sulfides | Dioxins/ Furans | PCB Congeners | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-G717** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G718** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G719** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G720** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G722** | 11/16/2007 | X | X | X | X | X | X | X | X | X | X | | X |
| **LW3-G725** | 11/30/2007 | | X | X | X | X | X | | X | | X | | X |
| **LW3-G727** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G729** | 11/30/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G730** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G731** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G732-1** | 11/30/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G732-2** | 11/30/2007 | | X | X | X | X | X | | X | | | X | |
| **LW3-G734** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G735** | 11/30/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G736** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G737** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G738** | 12/4/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G739** | 12/4/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-G740** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G741** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G742** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G743** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G744** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G745** | 11/16/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G746** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G747** | 11/26/2007 | | X | X | X | X | X | | X | | | X | X |
| **LW3-G748** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G750** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G751** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G752** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G753** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G754** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G755** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G756** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G758** | 11/26/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G759-1** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |

Table 2-1. Round 3B Surface Sediment Sample Summary.

| Sample ID | Date Sampled | Bioassay | Grain Size and Specific Gravity | SVOCs | Pesticides | PCB Aroclors | TPH-Dx | Ammonia | Metals + Hg + TS + TOC | Total Sulfides | Dioxins/ Furans | PCB Congeners | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-G759-2** | 12/4/2007 | | X | X | X | X | X | | X | | | | |
| **LW3-G760** | 12/5/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G761** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G763** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G764** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G765** | 12/4/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G766** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G767** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G768** | 12/6/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G769** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G770** | 12/6/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G771** | 12/6/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G772** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G774** | 11/26/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G775** | 11/26/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G776** | 12/5/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G777** | 12/5/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G778** | 12/5/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G779** | 12/5/2007 | X | X | X | X | X | X | X | X | X | | X | X |
| **LW3-G780** | 12/5/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G781** | 12/5/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G783** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG001** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG002-1** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG002-2** | 11/28/2007 | | X | X | X | X | X | | X | | | | |
| **LW3-MG002-3** | 11/28/2007 | | X | X | X | X | X | | X | | | | |
| **LW3-MG003** | 12/3/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG004** | 12/3/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG006** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG007** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG008** | 12/5/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG009** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-MG010** | 11/28/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-G785** | 11/14/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G786** | 11/14/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G787** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | | X |

Table 2-1. Round 3B Surface Sediment Sample Summary.

| Sample ID | Date Sampled | Bioassay | Grain Size and Specific Gravity | SVOCs | Pesticides | PCB Aroclors | TPH-Dx | Ammonia | Metals + Hg + TS + TOC | Total Sulfides | Dioxins/ Furans | PCB Congeners | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-G788** | 11/15/2007 | X | X | X | X | X | X | X | X | X | | | X |
| **LW3-G788-R** | 11/29/2007 | | | | | | | | | | X | X | X |
| **LW3-UG02A** | 11/16/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG02B** | 11/16/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG02C** | 11/16/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG02D** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG02E** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG02F-1** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG02F-2** | 11/29/2007 | | X | X | X | X | X | | X | | | | |
| **LW3-UG03A-1** | 11/15/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG03A-2** | 11/15/2007 | | X | X | X | X | X | | X | | X | X | |
| **LW3-UG03A-3** | 11/15/2007 | | X | X | X | X | X | | X | | X | X | |
| **LW3-UG03B** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG03C** | 11/16/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG04A** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG04B** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG04C** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG06A** | 11/14/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG06B** | 11/14/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG06C** | 11/14/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG11A** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG11B** | 11/29/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG11C** | 11/29/2007 | | X | X | X | X | X | | X | | | | X |
| **LW3-UG12A** | 11/15/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG12B** | 11/15/2007 | | X | X | X | X | X | | X | | X | X | X |
| **LW3-UG12C** | 11/15/2007 | | X | X | X | X | X | | X | | | | X |

Notes:

-1 = Normal field sample

-2 = Replicate field sample

-3 = Split sample taken from field replicate

-R = recollected sample, separate grab taken at same station on different date

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-C600** | **LW3-C600-A** | 12-Dec-07 | **CC** | | X | X | X | X | X | X | X | | X |
| | LW3-C600-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C600-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C600-D | | | | X | X | X | X | X | X | X | | X |
| **LW3-C601-1** | **LW3-C601-A1** | 12-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C601-B1 | | | | X | X | X | X | X | X | X | | X |
| | LW3-C601-C1 | | | | | | | | | | | | X |
| | LW3-C601-D1 | | | | | | | | | | | | X |
| **LW3-C601-2** | **LW3-C601-A2** | 12-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C601-B2 | | | | X | X | X | X | X | X | X | | X |
| | LW3-C601-C2 | | | | | | | | | | | | X |
| | LW3-C601-D2 | | | | | | | | | | | | X |
| **LW3-C601-3** | **LW3-C601-A3** | 12-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C601-B3 | | | | X | X | X | X | X | X | X | | |
| | LW3-C601-C3 | | | | | | | | | | | | |
| | LW3-C601-D3 | | | | | | | | | | | | |
| **LW3-C602** | **LW3-C602-A** | 12-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C602-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C602-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C602-D | | | | X | X | X | X | X | X | X | | X |
| **LW3-C604** | **LW3-C604-A** | 12-Dec-07 | **CC** | | | | | | | | | | |
| | LW3-C604-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C604-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C604-D | | | | X | X | X | X | X | X | X | | X |
| **LW3-C605** | **LW3-C605-A** | 12-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C605-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C605-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C605-D | | | | | | | | | | | | X |
| **LW3-C606** | **LW3-C606-A** | 12-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C606-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C606-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C606-D | | | | | | | | | | | | X |
| | LW3-C606-E | | | | | | | | | | | | X |
| **LW3-C608** | **LW3-C608-A** | 2-Jan-08 | **EC** | | | | | | | | | | |
| | LW3-C608-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C608-C | | | | | | | | | | | | X |
| | LW3-C608-D | | | | | | | | | | | | X |
| **LW3-C609** | **LW3-C609-A** | 13-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C609-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C609-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C609-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C610** | **LW3-C610-A** | 10-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C610-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C610-C | | | | X | X | X | X | X | X | | | X |

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-C613** | **LW3-C613-A** | 13-Dec-07 | **CC, EC** | | | | | | | | | | X |
| | LW3-C613-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C613-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C613-D | | | | X | X | X | X | X | X | | | X |
| | LW3-C613-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C614** | **LW3-C614-A** | 13-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C614-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C614-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C614-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C615** | **LW3-C615-A** | 13-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C615-B | | | | X | X | X | X | X | X | | | X |
| **LW3-C617** | **LW3-C617-A** | 13-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C617-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C617-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C617-D | | | | | | | | | | | | X |
| | LW3-C617-E | | | | | | | | | | | | X |
| | LW3-C617-F | | | | | | | | | | | | X |
| **LW3-C621** | **LW3-C621-A** | 13-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C621-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C621-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C621-D | | | | | | | | | | | | X |
| | LW3-C621-E | | | | | | | | | | | | X |
| **LW3-C626** | **LW3-C626-A** | 4-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C626-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C626-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C626-D | | | | X | X | X | X | X | X | | | X |
| | LW3-C626-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C630** | **LW3-C630-A** | 13-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C630-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C630-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C630-D | | | | | | | | | | | | X |
| **LW3-C634** | **LW3-C634-A** | 13-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C634-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C634-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C634-D | | | | | | | | | | | | X |
| **LW3-C635** | **LW3-C635-A** | 13-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C635-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C635-C | | | | | | | | | | | | X |
| **LW3-C636** | **LW3-C636-A** | 14-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C636-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C636-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C636-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C640** | **LW3-C640-A** | 14-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C640-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C640-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C640-D | | | | X | X | X | X | X | X | | | X |

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-C644-1** | **LW3-C644-A1** | 14-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C644-B1 | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C644-C1 | | | | X | X | X | X | X | X | X | X | X |
| **LW3-C644-2** | **LW3-C644-A2** | 14-Dec-07 | **CC** | | | | | | | | | | |
| | LW3-C644-B2 | | | | X | X | X | X | X | X | X | X | |
| | LW3-C644-C2 | | | | X | X | X | X | X | X | X | X | |
| | LW3-C644-D2 | | | | | | | | | | | | |
| **LW3-C644-3** | **LW3-C644-A3** | 14-Dec-07 | **CC** | | | | | | | | | | |
| | LW3-C644-B3 | | | | X | X | X | X | X | X | X | X | |
| | LW3-C644-C3 | | | | X | X | X | X | X | X | X | X | |
| | LW3-C644-D3 | | | | | | | | | | | | |
| **LW3-C645** | **LW3-C645-A** | 14-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C645-B | | | | X | X | X | X | X | X | | X | X |
| | LW3-C645-C | | | | X | X | X | X | X | X | | X | X |
| **LW3-C648** | **LW3-C648-A** | 14-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C648-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C648-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C648-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C651** | **LW3-C651-A** | 17-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C651-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C651-C | | | | X | X | X | X | X | X | | | X |
| **LW3-C652** | **LW3-C652-A** | 14-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C652-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C652-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C652-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C658** | **LW3-C658-A** | 14-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C658-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C658-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C658-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C662** | **LW3-C662-A** | 17-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C662-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C662-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C662-D | | | | X | X | X | X | X | X | | | X |
| | LW3-C678-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C664** | **LW3-C664-A** | 1/15/2008 | **EC** | | | | | | | | | | X |
| | LW3-C664-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C664-C | | | | X | X | X | X | X | X | X | | X |
| **LW3-C665** | **LW3-C665-A** | 1/15/2008 | **CC** | | | | | | | | | | X |
| | LW3-C665-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C665-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C665-D | | | | X | X | X | X | X | X | X | | X |
| **LW3-C676** | **LW3-C676-A** | 8-Jan-08 | **EC** | | | | | | | | | | X |
| | LW3-C676-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C676-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C676-D | | | | | | | | | | X | | X |

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-C678** | **LW3-C678-A** | 19-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C678-B | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C678-C | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C678-D | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C678-E | | | | X | X | X | X | X | X | X | X | X |
| **LW3-C679** | **LW3-C679-A** | 15-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C679-B | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C679-C | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C679-D | | | | X | X | X | X | X | X | X | X | X |
| **LW3-C686** | **LW3-C686-A** | 19-Dec-07 | **CC, EC** | | | | | | | | | | X |
| | LW3-C686-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C686-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C686-D | | | | X | X | X | X | X | X | X | | X |
| **LW3-C688** | **LW3-C688-A** | 15-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C688-B | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C688-C | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C688-D | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C688-E | | | | | | | | | | | | X |
| | LW3-C688-F | | | | X | X | X | X | X | X | X | X | X |
| **LW3-C690** | **LW3-C690-A** | 15-Jan-08 | **CC** | | | | | | | | | | |
| | LW3-C690-B | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C690-C | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C690-D | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C690-E | | | | X | X | X | X | X | X | X | X | X |
| **LW3-C695** | **LW3-C695-A** | 20-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C695-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C695-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C695-D | | | | | | | | | | | | X |
| | LW3-C695-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C698** | **LW3-C698-A** | 20-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C698-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C698-C | | | | | | | | | | | | X |
| | LW3-C698-D | | | | | | | | | | | | X |
| **LW3-C701** | **LW3-C701-A** | 19-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C701-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C701-C | | | | | | | | | | | | X |
| | LW3-C701-D | | | | X | X | X | X | X | X | | | X |
| | LW3-C701-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C702** | **LW3-C702-A** | 15-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C702-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C702-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C702-D | | | | X | X | X | X | X | X | X | | X |
| | LW3-C702-E | | | | | | | | | | | | X |
| | LW3-C702-F | | | | X | X | X | X | X | X | X | | X |

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-C703** | **LW3-C703-A** | 16-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C703-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C703-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C703-D | | | | X | X | X | X | X | X | X | | X |
| **LW3-C704** | **LW3-C704-A** | 19-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C704-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C704-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C704-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C706** | **LW3-C706-A** | 16-Jan-08 | **EC** | | | | | | | | | | X |
| | LW3-C706-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C706-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C706-D | | | | X | X | X | X | X | X | | | X |
| | LW3-C706-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C708** | **LW3-C708-A** | 16-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C708-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C708-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C708-D | | | | X | X | X | X | X | X | X | | X |
| | LW3-C708-E | | | | | | | | | | | | X |
| | LW3-C708-F | | | | X | X | X | X | X | X | X | | X |
| | LW3-C708-G | | | | X | X | X | X | X | X | X | | X |
| **LW3-C709** | **LW3-C709-A** | 4-Jan-08 | **EC** | | | | | | | | | | X |
| | LW3-C709-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C709-C | | | | | | | | | | | | X |
| | LW3-C709-D | | | | | | | | | | | | X |
| **LW3-C712** | **LW3-C712-A** | 19-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C712-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C712-C | | | | X | X | X | X | X | X | X | | X |
| **LW3-C714** | **LW3-C714-A** | 20-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C714-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C714-C | | | | | | | | | | | | X |
| | LW3-C714-D | | | | | | | | | | | | X |
| **LW3-C717** | **LW3-C717-A** | 20-Dec-07 | **EC** | | | | | | | | | | X |
| | LW3-C717-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C717-C | | | | | | | | | | | | X |
| | LW3-C717-D | | | | | | | | | | | | X |
| **LW3-C720** | **LW3-C720-A** | 2-Jan-08 | **EC** | | | | | | | | | | X |
| | LW3-C720-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C720-C | | | | | | | | | | | | X |
| **LW3-C721** | **LW3-C721-A** | 16-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C721-B | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C721-C | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C721-D | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C721-E | | | | X | X | X | X | X | X | X | X | X |

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-C724** | **LW3-C724-A** | 16-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C724-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C724-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C724-D | | | | | | | | | | | | X |
| | LW3-C724-E | | | | X | X | X | X | X | X | X | | X |
| | LW3-C724-F | | | | | | | | | | | | X |
| | LW3-C724-G | | | | X | X | X | X | X | X | X | | X |
| **LW3-C727** | **LW3-C727-A** | 4-Jan-08 | **EC** | | | | | | | | | | X |
| | LW3-C727-B | | | | X | X | X | X | X | X | | | X |
| **LW3-C733** | **LW3-C733-A** | 20-Dec-08 | **CC** | | | | | | | | | | X |
| | LW3-C733-B | | | | X | X | X | X | X | X | | | X |
| **LW3-C735** | **LW3-C735-A** | 4-Jan-08 | **EC** | | | | | | | | | | X |
| | LW3-C735-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C735-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C735-D | | | | | | | | | | | | X |
| | LW3-C735-E | | | | | | | | | | | | X |
| **LW3-C738** | **LW3-C738-A** | 17-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C738-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C738-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C738-D | | | | X | X | X | X | X | X | X | | X |
| | LW3-C738-E | | | | | | | | | | | | X |
| | LW3-C738-F | | | | X | X | X | X | X | X | X | | X |
| **LW3-C739** | **LW3-C739-A** | 17-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C739-B | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C739-C | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C739-D | | | | X | X | X | X | X | X | X | X | X |
| | LW3-C739-E | | | | X | X | X | X | X | X | X | X | X |
| **LW3-C742** | **LW3-C742-A** | 20-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C742-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C742-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C742-D | | | | | | | | | | | | X |
| **LW3-C743** | **LW3-C743-A** | 21-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C743-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C743-C | | | | | | | | | | | | X |
| | LW3-C743-D | | | | X | X | X | X | X | X | | | X |
| | LW3-C743-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C746** | **LW3-C746-A** | 21-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C746-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C746-C | | | | | | | | | | | | X |
| | LW3-C746-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C747** | **LW3-C747-A** | 3-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C747-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C747-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C747-D | | | | | | | | | | | | X |
| | LW3-C747-E | | | | X | X | X | X | X | X | X | | X |

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-C748-1** | **LW3-C748-A1** | 3-Jan-08 | **CC, EC** | | | | | | | | | | X |
| | LW3-C748-B1 | | | | X | X | X | X | X | X | | | X |
| | LW3-C748-C1 | | | | X | X | X | X | X | X | | | X |
| | LW3-C748-D1 | | | | X | X | X | X | X | X | | | X |
| **LW3-C748-2** | **LW3-C748-A2** | 10-Jan-08 | **CC, EC** | | | | | | | | | | |
| | LW3-C748-B2 | | | | X | X | X | X | X | X | | | |
| | LW3-C748-C2 | | | | X | X | X | X | X | X | | | |
| | LW3-C748-D2 | | | | X | X | X | X | X | X | | | |
| **LW3-C748-3** | **LW3-C748-A3** | 10-Jan-08 | **CC, EC** | | | | | | | | | | |
| | LW3-C748-B3 | | | | X | X | X | X | X | X | | | |
| | LW3-C748-C3 | | | | X | X | X | X | X | X | | | |
| | LW3-C748-D3 | | | | X | X | X | X | X | X | | | |
| **LW3-C749** | **LW3-C749-A** | 21-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-C749-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C749-C | | | | X | X | X | X | X | X | | | X |
| **LW3-C752** | **LW3-C752-A** | 3-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C752-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C752-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C752-D | | | | X | X | X | X | X | X | X | | X |
| **LW3-C753** | **LW3-C753-A** | 8-Jan-08 | **EC** | | | | | | | | | | X |
| | LW3-C753-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C753-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C753-D | | | | | | | | | | | | X |
| **LW3-C757** | **LW3-C757-A** | 9-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C757-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C757-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C757-D | | | | | | | | | | | | X |
| | LW3-C757-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C760** | **LW3-C760-A** | 3-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C760-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C760-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C760-D | | | | X | X | X | X | X | X | | | X |
| **LW3-C762** | **LW3-C762-A** | 3-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C762-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C762-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C762-D | | | | X | X | X | X | X | X | | | X |
| | LW3-C762-E | | | | X | X | X | X | X | X | | | X |
| **LW3-C764-1** | **LW3-C764-A1** | 9-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C764-B1 | | | | X | X | X | X | X | X | | | X |
| | LW3-C764-C1 | | | | X | X | X | X | X | X | | | X |
| | LW3-C764-D1 | | | | X | X | X | X | X | X | | | X |
| **LW3-C764-2** | **LW3-C764-A2** | 10-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C764-B2 | | | | X | X | X | X | X | X | | | |
| | LW3-C764-C2 | | | | X | X | X | X | X | X | | | |
| | LW3-C764-D2 | | | | X | X | X | X | X | X | | | |

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-C773-1** | **LW3-C773-A1** | 3-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C773-B1 | | | | X | X | X | X | X | X | | | X |
| | LW3-C773-C1 | | | | X | X | X | X | X | X | | | X |
| | LW3-C773-D1 | | | | X | X | X | X | X | X | | | X |
| **LW3-C773-2** | **LW3-C773-A2** | 4-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C773-B2 | | | | X | X | X | X | X | X | | | |
| | LW3-C773-C2 | | | | X | X | X | X | X | X | | | |
| | LW3-C773-D2 | | | | X | X | X | X | X | X | | | |
| **LW3-C773-3** | **LW3-C773-A3** | 4-Jan-08 | **CC** | | | | | | | | | | |
| | LW3-C773-B3 | | | | X | X | X | X | X | X | | | |
| | LW3-C773-C3 | | | | X | X | X | X | X | X | | | |
| | LW3-C773-D3 | | | | X | X | X | X | X | X | | | |
| **LW3-C777** | **LW3-C777-A** | 9-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C777-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C777-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C777-D | | | | X | X | X | X | X | X | X | | X |
| **LW3-C778** | **LW3-C778-A** | 9-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C778-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C778-C | | | | X | X | X | X | X | X | X | | X |
| **LW3-C779** | **LW3-C779-A** | 9-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C779-B | | | | X | X | X | X | X | X | X | | X |
| | LW3-C779-C | | | | X | X | X | X | X | X | X | | X |
| | LW3-C779-D | | | | | | | | | | | | X |
| | LW3-C779-E | | | | X | X | X | X | X | X | X | | X |
| **LW3-C782** | **LW3-C782-A** | 11-Jan-08 | **CC** | | X | X | X | X | X | X | | | X |
| | LW3-C782-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C782-C | | | | X | X | X | X | X | X | | | X |
| **LW3-C783** | **LW3-C783-A** | 10-Jan-08 | **CC** | | | | | | | | | | X |
| | LW3-C783-B | | | | X | X | X | X | X | X | | | X |
| | LW3-C783-C | | | | X | X | X | X | X | X | | | X |
| | LW3-C783-D | | | | X | X | X | X | X | X | | | X |
| | LW3-C783-E | | | | X | X | X | X | X | X | | | X |
| **LW3-E605** | **LW3-E605-A** | 17-Dec-07 | **GT** | X | | | | | | | | | X |
| | LW3-E605-B | | | X | | | | | | | | | X |
| **LW3-E622** | **LW3-E662-A** | 17-Dec-07 | **GT** | X | | | | | | | | | X |
| **LW3-E665** | **LW3-E665-A** | 18-Dec-07 | **GT** | X | | | | | | | | | X |
| **LW3-E679** | **LW3-E679-A** | 18-Dec-07 | **GT** | X | | | | | | | | | X |
| | LW3-E679-B | | | X | | | | | | | | | X |
| **LW3-E690** | **LW3-E690-A** | 21-Dec-07 | **GT** | X | | | | | | | | | X |
| | LW3-E690-B | | | X | | | | | | | | | X |
| **LW3-E721** | **LW3-E721-A** | 21-Dec-07 | **GT** | X | | | | | | | | | X |
| | LW3-E721-B | | | X | | | | | | | | | X |
| **LW3-E723** | **LW3-E723-A** | 18-Dec-07 | **GT** | X | | | | | | | | | X |
| | LW3-E723-B | | | X | | | | | | | | | X |
| **LW3-E724** | **LW3-E724-A** | 4-Jan-08 | **GT** | X | | | | | | | | | X |
| | LW3-E724-B | | | X | | | | | | | | | X |

Table 2-2. Round 3B Subsurface Sediment Sample Summary

| Station ID[a] | Sample ID | Date Sampled | Core Type | Geotech Analyses | Grain Size, Specific Gravity | SVOCs (+ PAHs, phenols & phthalates) | Pesticides | PCB Aroclors | Metals + Hg + TS + TOC | TPH-Dx | PCB Congeners | Dioxins/Furans | Frozen Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LW3-E726** | **LW3-E726-A** | 4-Jan-08 | **GT** | X | | | | | | | | | X |
| | LW3-E726-B | | | X | | | | | | | | | X |
| **LW3-E733** | **LW3-E733-A** | 11-Jan-09 | **GT** | X | | | | | | | | | X |
| | LW3-E733-B | | | X | | | | | | | | | X |
| **LW3-MC001-1** | **LW3-MC001-A1** | 11-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-MC001-B1 | | | | X | X | X | X | X | X | | | X |
| | LW3-MC001-C1 | | | | X | X | X | X | X | X | | | X |
| **LW3-MC001-2** | **LW3-MC001-A2** | 11-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-MC001-B2 | | | | X | X | X | X | X | X | | | |
| | LW3-MC001-C2 | | | | X | X | X | X | X | X | | | |
| | LW3-MC001-D2 | | | | | | | | | | | | X |
| **LW3-MC002** | **LW3-MC002-A** | 11-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-MC002-B | | | | X | X | X | X | X | X | | | X |
| | LW3-MC002-C | | | | X | X | X | X | X | X | | | X |
| | LW3-MC002-D | | | | X | X | X | X | X | X | | | X |
| **LW3-MC006** | **LW3-MC006-A** | 11-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-MC006-B | | | | X | X | X | X | X | X | | | X |
| | LW3-MC006-C | | | | X | X | X | X | X | X | | | X |
| | LW3-MC006-D | | | | X | X | X | X | X | X | | | X |
| | LW3-MC006-E | | | | | | | | | | | | X |
| **LW3-MC008** | **LW3-MC008-A** | 10-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-MC008-B | | | | X | X | X | X | X | X | | | X |
| | LW3-MC008-C | | | | X | X | X | X | X | X | | | X |
| | LW3-MC008-D | | | | X | X | X | X | X | X | | | X |
| **LW3-MC009** | **LW3-MC009-A** | 10-Dec-07 | **CC** | | | | | | | | | | X |
| | LW3-MC009-B | | | | X | X | X | X | X | X | | | X |
| | LW3-MC009-C | | | | | | | | | | | | X |

Notes:

[a] -1 = Normal field sample

-2 = Replicate field sample

-3 = Split sample from the field replicate

CC = Chemistry core

EC = Erosion core

CC, EC = Chemistry and erosion core

GT = Geotechnical core. These samples were analysed for geotechnical index properties and SICT.

Table 3-1. Laboratory Methods for Round 3B Sediment Samples.

| Analysis | Laboratory | Sample Preparation | | Quantitative Analysis | |
|---|---|---|---|---|---|
| | | Protocol | Procedure | Protocol | Procedure |
| **Conventional Analyses** | CAS Kelso | | | | |
| Total solids | | -- | -- | PSEP 1986 | Balance |
| Grain size | | -- | -- | PSEP 1986 | Sieve and pipette method |
| Total organic carbon | | Plumb 1981 | Acid pretreatment | Plumb 1981 | Combustion; coulometric titration |
| Specific gravity | | -- | -- | ASTM D-854 | Gravimeter |
| Total sulfides | | EPA 9030 | Distillation | EPA 9030 | Colorimetry |
| Ammonia | | Plumb 1981 | KCl extraction | EPA 350.1 | Colorimetry |
| **Metals** | CAS Kelso | | | | |
| Antimony, arsenic, cadmium, lead, silver, | | EPA 3050/PSEP 1997 | Strong acid digestion | EPA 6020 | ICP/MS |
| Aluminum, chromium, copper, nickel, zinc | | EPA 3050/PSEP 1997 | Strong acid digestion | EPA 6010B | ICP/AES |
| Selenium | | EPA 3050/PSEP 1997 | Strong acid digestion | EPA 7742 | AAS |
| | | EPA 7742 | Hydride generation | | |
| Mercury | | EPA 7471A | Acid digestion/oxidation | EPA 7471A | CVAA |
| **Petroleum Hydrocarbons** | CAS Kelso | | | | |
| Diesel- and residual-range organics (DRO/RRO) | | NWTPH-Dx | Sovent extraction | NWTPH-Dx | GC/FID |
| | | | Silica gel cleanup[b] | | |
| **Organochlorine Pesticides and Selected SVOCs** | CAS Kelso | EPA 3541 | Soxhlet extraction | EPA 8081A | GC/ECD |
| | | EPA 3620B | Florisil® cleanup | | |
| | | EPA 3660B | Sulfur cleanup | | |
| **Polycyclic Aromatic Hydrocarbons** | CAS Kelso | EPA 3541 | Automated Soxhlet Extraction | EPA 8270C-SIM | GC/MS-SIM |
| Alkylated PAHs [b] | | EPA 3640A | Gel permeation chromatography | | |
| | | EPA 3630C | Silica Gel cleanup | | |
| **Chlorinated Phenols** (Tri-,tetra-, and PCP) | CAS Kelso | EPA 8151M | Solvent Extraction | EPA 8151M | GC/ECD |
| | | | Esterification | | |
| **Semivolatile Organic Compounds** | CAS Kelso | EPA 3541 | Automated Soxhlet Extraction | EPA 8270C | GC/MS-LVI |
| including Phthalate esters [c] | | EPA 3640A | Gel permeatioin chromatography | | |

Table 3-1. Laboratory Methods for Round 3B Sediment Samples.

| Analysis | Laboratory | Sample Preparation | | Quantitative Analysis | |
|---|---|---|---|---|---|
| | | Protocol | Procedure | Protocol | Procedure |
| **PCB Aroclors** | CAS Kelso | EPA 3541<br>EPA 3665A<br>EPA 3620B<br>EPA 3660B | Soxhlet extraction<br>Sulfuric acid cleanup<br>Florisil® cleanup<br>Sulfur cleanup | EPA 8082 | GC/ECD |
| **PCB Congeners**[d] | Vista | EPA 1668A | Soxhlet/Dean Stark extraction<br>Sulfuric acid cleanup<br>Silica column cleanup | EPA 1668A | HRGC/HRMS |
| **Chlorinated Dioxins and Furans** | CAS Houston | EPA 1613B | Soxhlet/Dean Stark extraction<br>Sulfuric acid cleanup<br>Silica/carbon column cleanup | EPA 1613B | HRGC/HRMS |
| **Geotechnical Analyses** | | | | | |
| Atterberg limits | ARI | -- | -- | ASTM D-4318 | Moisture determination |
| Moisture | ARI | -- | -- | ASTM D-2216 | Moisture determination |
| Grain size | ARI | -- | -- | ASTM D-421/422 | Sieve and hydrometer method |
| Specific gravity | ARI | -- | -- | ASTM D-854 | Gravimeter |
| Vane Shear Test (VST) | performed in field | | | Roctest 2005 | Vane Tester Model H-60 |
| Seepage Induced Consolidation Test (SICT) | University of Colorado | -- | -- | Znidarcic et al. 1994 | SICT |

Notes:

[a] Samples were analyzed for NWTPH-Dx both with and without silica gel cleanups.

[b] Analysis includes alkylated PAH homologs at selected locations.

[c] Semivolatile organic compounds includes phthalate esters, mono-, dichlorophenols and other misc.compounds.

[d] Analysis includes all 209 PCB congeners.

-- = Not applicable.

AAS - Atomic absorption spectrometry
CAS - Columbia Analytical Services
CVAA - cold vapor atomic absorption spectrometry
EPA - U.S. Environmental Protection Agency
GC/ECD - gas chromatography/electron capture detection
GC/FID - gas chromatography/flame ionization detection
GC/MS - gas chromatography/mass spectrometry
HRGC/HRMS - high-resolution gas chromatography/high-resolution mass spectrometry
ICP/AES - inductively coupled plasma/atomic emission spectrometry
ICP/MS - inductively coupled plasma - mass spectrometry
LVI - large-volume injector
TPH - total petroleum hydrocarbon
PAH - polycyclic aromatic hydrocarbon
PCB - polychlorinated biphenyl
PSEP - Puget Sound Estuary Program
SIM - selected ion monitoring
SVOC - semivolatile organic compound

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 3-2. Data Validation Qualifiers and Definitions.

| Data Qualifier | Definition |
|---|---|
| U | The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit. |
| J | The associated numerical value is an estimated quantity. |
| R | Rejected. |
| NJ | Presumptive evidence of the presence of the material at an estimated quantity. |
| UJ | The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity. |
| T | The associated numerical value was mathematically derived (e.g., from summing multiple analyte results such as Aroclors, or calculating the average of multiple results for a single analyte). Also indicates all results that are selected for reporting in preference to other available results (e.g., for parameters reported by multiple methods) for the Round 3 data. |

Table 3-3. Percent Completeness by Parameter Group.

| Analysis | Total # of Data Points[a] | Number of Data Points | | Completeness (%) |
|---|---|---|---|---|
| | | Accepted | Rejected | |
| Conventionals [b] | 1477 | 1477 | 0 | 100 |
| Dioxin/furan homologs | 830 | 830 | 0 | 100 |
| Dioxins/furans | 1245 | 1245 | 0 | 100 |
| Grainsize | 5486 | 5486 | 0 | 100 |
| Metals | 4741 | 4741 | 0 | 100 |
| Organochlorine pesticides | 12068 | 12067 | 1 | 100 |
| PAHs | 15559 | 15559 | 0 | 100 |
| PCB Aroclors | 3879 | 3879 | 0 | 100 |
| PCB congeners | 28224 | 28224 | 0 | 100 |
| Petroleum | 1724 | 1724 | 0 | 100 |
| Phenols | 6896 | 6727 | 169 | 98 |
| Phthalates | 2586 | 2586 | 0 | 100 |
| SVOCs | 15085 | 14921 | 164 | 99 |
| **Round 3B Sediment Sampling Project Total** | **99800** | **99466** | **334** | **>99** |

Notes:

[a] Totals include reportable results for field replicates and split samples and exclude field blanks.

[b] Includes ammonia, specific gravity, sulfide, total organic carbon, and total solids.

Table 3-4. Summary of Round 3B Sediment Field and QC Samples

| Sample Type | Samples | Field Sample Splits | Field Replicates | Field Rinsate Blanks | Total Number of Field Samples |
|---|---|---|---|---|---|
| ***Sediment - Surface*** | | | | | |
| Conventionals[a] | 188 | 5 | 12 | 0 | 205 |
| Metals | 188 | 5 | 12 | 10 | 215 |
| SVOCs | 188 | 5 | 12 | 10 | 215 |
| Phenols | 188 | 5 | 12 | 10 | 215 |
| Pesticides | 188 | 5 | 12 | 10 | 215 |
| PCB Aroclors | 188 | 5 | 12 | 10 | 215 |
| PCB Congeners | 65 | 3 | 4 | 3 | 75 |
| TPHs | 188 | 5 | 12 | 10 | 215 |
| PAHs - Parent & Alkylated[b] | 188 | 5 | 12 | 10 | 215 |
| Dioxins/Furans | 46 | 2 | 3 | 3 | 54 |
| 28-day *Hyalella* | 60 | 0 | 0 | 0 | 60 |
| 10-day *Chironomus* | 60 | 0 | 0 | 0 | 60 |
| ***Sediment - Subsurface*** | | | | | |
| Conventionals[a] | 203 | 9 | 14 | 0 | 226 |
| Geotechnical Analyses | 18 | 0 | 0 | 0 | 18 |
| Metals | 203 | 9 | 14 | 10 | 236 |
| SVOCs | 203 | 9 | 14 | 10 | 236 |
| Phenols | 203 | 9 | 14 | 10 | 236 |
| Pesticides | 203 | 9 | 14 | 10 | 236 |
| PCB Aroclors | 203 | 9 | 14 | 10 | 236 |
| PCB Congeners | 86 | 3 | 3 | 3 | 95 |
| TPHs | 203 | 9 | 14 | 10 | 236 |
| PAHs - Parent[b] | 85 | 3 | 8 | 10 | 106 |
| PAHs Alkylated | 118 | 6 | 6 | 0 | 130 |
| Dioxins/Furans | 27 | 2 | 2 | 3 | 34 |

Notes:

[a] All samples will be analyzed for total solids, grain size, total organic carbon, and specific gravity. In addition, sediment samples collected for toxicity testing will be analyzed for ammonia and total sulfides. Replicates and split samples will be analyzed for conventionals and chemicals of concern. Conventionals are excluded from the analysis of rinsate blanks. Field QC sample numbers based on a frequency of 5% for field replicates and 2.5% for field splits.

[b] Parent PAHs consist of the standard list of project PAHs - no rinsate samples for alkylated PAHs.

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G600 | LW3-G601 | LW3-G602 | LW3-G603 | LW3-G604 | LW3-G605 | LW3-G606 | LW3-G607 | LW3-G608 | LW3-G609 | LW3-G611 | LW3-G612-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.6 U | 9.6 U | 24 U | 21 U | 18 U | 1.6 U | 5.8 U | 9.2 U | 13 U | 1.4 U | 9.6 U | 1.4 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.6 U | 3 U | 1.7 U | 1.6 U | 10 U | 1.6 U | 5.4 U | 4.9 U | 3.3 U | 1.4 U | 5.1 U | 1.4 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.6 U | 19 U | 27 U | 29 U | 35 U | 1.6 U | 16 U | 18 U | 25 U | 1.4 U | 18 U | 1.4 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 18 U | 7.1 U | 9.6 U | 14 U | 13 U | 2.1 J | 3.7 U | 5.4 U | 8 U | 9.7 U | 3 U | 3 NJ |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.6 U | 1.3 U | 1.7 U | 1.6 U | 1.6 U | 1.6 U | 1.4 U | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 1.4 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 22 | 6.6 J | 6.3 NJ | 4.5 NJ | 7.7 J | 6.4 J | 3.5 J | 5.3 J | 12 | 100 J | 8.5 J | 13 J |
| Aroclor 1260 | 11096-82-5 | ug/kg | 13 J | 4.2 | 7.6 J | 7.4 J | 7.3 J | 6.1 J | 4.3 | 7.9 | 7.9 | 60 | 9.8 J | 7.5 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.6 U | 1.3 U | 1.7 U | 1.6 U | 1.6 U | 1.6 U | 1.4 U | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 1.4 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.6 U | 1.3 U | 1.7 U | 1.6 U | 1.6 U | 1.6 U | 1.4 U | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 1.4 U |
| Aroclors | 12767-79-2 | ug/kg | 35 JT | 10.8 JT | 13.9 JT | 11.9 JT | 15 JT | 14.6 JT | 7.8 JT | 13.2 JT | 19.9 T | 160 JT | 18.3 JT | 23.5 JT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | | | | | | | | | 82.1 | 91.7 T |
| Specific Gravity | SPEC_GRAV | NA | 1.34 | 1.46 | 1.32 | 1.38 | 1.35 | 1.46 | 1.52 | 1.59 | 1.56 | 1.44 | 1.65 | 1.5 |
| Sulfide | 18496-25-8 | mg/kg | | | | | | | | | | | 12.4 J | 0.5 UT |
| Total organic carbon | TOC | percent | 2.15 | 1.52 | 2.16 | 2.1 | 2.14 | 2.17 | 1.88 | 2.08 | 2.21 | 2.14 | 1.55 | 1.75 T |
| Total solids | TSO | percent | 41.2 | 50.8 | 39.8 | 40.8 | 40.9 | 40.9 | 46.4 | 43 | 40.9 | 49.1 | 49.5 | 44.7 T |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | 0.0915 J | | 0.0162 U | | | 0.182 J | | | 0.257 J | 0.544 J |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | 0.0205 U | | 0.028 U | | | 0.0219 U | | | 0.0653 J | 0.708 J |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | 1 J | | 0.624 J | | | 2.29 J | | | 2.54 J | 8.39 |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | 9.37 | | 6.07 | | | 17.5 | | | 17.1 | 66.5 |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | 35.4 | | 22 | | | 72.7 | | | 83.2 | 258 |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | 0.0152 U | | 0.019 U | | | 0.248 J | | | 1.63 | 1.01 |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | 0.346 J | | 0.121 J | | | 0.868 J | | | 1.61 J | 2.18 J |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | 0.797 J | | 0.368 J | | | 2.17 J | | | 2.7 J | 4.87 |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | 2.37 J | | 1.15 J | | | 4.65 | | | 5.02 | 11.8 |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | 2.98 J | | 1.88 J | | | 7.12 J | | | 6.14 J | 16.2 |
| Total PCDD/F | TOTPCDD_F | pg/g | | | 52.4 JT | | 32.2 JT | | | 108 JT | | | 120 JT | 370 JT |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | 0.0125 U | | 0.0162 U | | | 0.0166 U | | | 0.0214 U | 0.0409 U |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | 0.0205 U | | 0.028 U | | | 0.0219 U | | | 0.0653 J | 0.0881 U |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | 0.0286 U | | 0.0309 U | | | 0.0835 J | | | 0.0711 J | 0.186 J |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | 0.148 J | | 0.032 U | | | 0.334 J | | | 0.381 J | 0.964 J |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | 0.0275 U | | 0.0295 U | | | 0.204 J | | | 0.248 J | 0.539 J |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | 3.93 J | | 2.36 J | | | 8.3 | | | 8.06 | 27.1 |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | 0.0152 U | | 0.019 U | | | 0.125 J | | | 0.192 J | 0.262 J |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | 0.0109 U | | 0.0182 U | | | 0.0889 J | | | 0.165 J | 0.181 J |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | 0.0115 U | | 0.0211 U | | | 0.0768 J | | | 0.122 J | 0.133 J |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | 0.074 J | | 0.0206 U | | | 0.192 J | | | 0.339 J | 0.384 J |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | 0.0196 U | | 0.022 U | | | 0.0737 U | | | 0.142 J | 0.208 J |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | 0.0217 U | | 0.0264 U | | | 0.0437 U | | | 0.0183 U | 0.0211 U |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | 0.02 U | | 0.0234 U | | | 0.0889 U | | | 0.121 J | 0.208 J |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | 0.962 J | | 0.328 J | | | 1.36 J | | | 1.47 J | 3.14 J |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | 0.0404 U | | 0.0477 U | | | 0.077 U | | | 0.128 J | 0.249 J |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | 0.0826 JT | | 0.034 JT | | | 0.24 JT | | | 0.38 JT | 0.708 JT |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 1.07 A | 0.281 JA | 0.528 JT | 0.349 JA | 0.512 JT | 0.0254 JA | 0.276 JA | 0.674 JT | 0.634 JA | 1.74 JA | 0.38 JA | 0.708 JA |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.69 | 0.06 | 0.01 | 0.09 | 0 | 0.01 | 0.11 | 1.12 | 0.21 | 0 | 0 | 0.51 |
| Fine gravel | GS_FG | percent | 1.13 | 0.34 | 0.5 | 1.03 | 0.59 | 0.52 | 0.29 | 0.84 | 0.58 | 1.41 | 0.37 | 0.21 |
| Very coarse sand | GS_VCS | percent | 0.94 | 0.94 | 1.01 | 0.85 | 0.91 | 0.5 | 0.67 | 0.72 | 0.72 | 1.58 | 0.79 | 0.17 |
| Coarse sand | GS_CS | percent | 0.61 | 0.96 | 0.45 | 0.55 | 0.64 | 0.42 | 0.7 | 0.56 | 0.59 | 1.67 | 1.59 | 2.07 |
| Medium sand | GS_MS | percent | 0.7 | 3.44 | 0.39 | 0.57 | 0.65 | 0.49 | 0.92 | 0.8 | 0.98 | 5.76 | 5.88 | 15.5 |
| Fine sand | GS_FS | percent | 1.74 | 8.36 | 0.86 | 1.35 | 1.84 | 1.67 | 3.61 | 2.79 | 3.22 | 7.34 | 8.35 | 11.4 |
| Very fine sand | GS_VFS | percent | 9.75 | 23.8 | 6.17 | 8.46 | 9.42 | 10.8 | 28.5 | 13.9 | 11.3 | 14.7 | 17.5 | 14.1 |
| Fines | GS_FINES | percent | 87.9 T | 62.4 T | 95.9 T | 93.9 T | 90.2 T | 89.6 T | 66 T | 79.5 T | 86.5 T | 65.4 T | 67.9 T | 58.1 T |
| Coarse silt | GS_CSILT | percent | 36.4 | 24.4 | 37.9 | 41.3 | 39.5 | 53.1 | 42 | 40.9 | 48.5 | 14.3 | 26.3 | 17.5 |
| Medium silt | GS_MSILT | percent | 20.2 | 14.3 | 24.5 | 20.9 | 21.4 | 14.2 | 9.81 | 15.4 | 15.4 | 19.2 | 13.6 | 14.6 |
| Fine silt | GS_FSILT | percent | 12.4 | 9.14 | 13 | 14.2 | 12.5 | 7.34 | 5.88 | 8.88 | 8.8 | 12.3 | 8.78 | 8.9 |
| Very fine silt | GS_VFSILT | percent | 3.23 | 2.42 | 4.51 | 3.95 | 4.01 | 7.26 | 2.43 | 5.97 | 4.98 | 4.53 | 8.98 | 6.18 |
| 8-9 Phi clay | GS_CCLAY | percent | 6.7 | 5.28 | 8.42 | 7.74 | 6.21 | 3.43 | 1.85 | 4.19 | 3.4 | 7.33 | 5.16 | 3.67 |
| >9 Phi clay | GS_MFCLAY | percent | 8.97 | 6.87 | 7.53 | 5.78 | 6.56 | 4.3 | 4.06 | 4.11 | 5.45 | 7.69 | 5.04 | 7.28 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G600 | LW3-G601 | LW3-G602 | LW3-G603 | LW3-G604 | LW3-G605 | LW3-G606 | LW3-G607 | LW3-G608 | LW3-G609 | LW3-G611 | LW3-G612-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 28300 | 35100 | 30900 | 28200 | 30300 | 33200 | 31900 | 30800 | 32900 | 28300 | 28500 | 25800 T |
| Antimony | 7440-36-0 | mg/kg | 0.44 J | 0.59 J | 0.43 J | 0.4 J | 0.43 J | 0.38 J | 0.36 J | 0.51 J | 0.4 J | 0.57 J | 0.35 J | 0.12 JT |
| Arsenic | 7440-38-2 | mg/kg | 4.29 | 3.18 | 4.4 | 4.27 | 4.33 | 3.77 | 3.52 | 3.61 | 4.86 | 5.04 | 3.64 | 4.09 T |
| Cadmium | 7440-43-9 | mg/kg | 0.43 | 0.367 | 0.379 | 0.341 | 0.338 | 0.264 J | 0.247 J | 0.296 J | 0.36 J | 1.06 | 0.293 J | 0.307 JT |
| Chromium | 7440-47-3 | mg/kg | 31 | 26.1 | 26 | 25.1 | 25.8 | 30.5 | 30.4 | 29.3 | 35.3 | 33.2 | 26.8 | 25.6 T |
| Copper | 7440-50-8 | mg/kg | 41.1 | 34.5 | 41.9 | 41.2 | 40.9 | 36.6 | 33.5 | 37.7 | 44.7 | 40.3 | 34.1 | 35.4 T |
| Lead | 7439-92-1 | mg/kg | 14 | 12 | 12 | 12 | 12 | 10 | 9.1 | 11 | 13 | 34 | 12 | 14 T |
| Mercury | 7439-97-6 | mg/kg | 0.098 | 0.075 | 0.116 | 0.09 | 0.095 | 0.076 | 0.063 | 0.066 | 0.079 | 0.249 | 0.066 | 0.081 T |
| Nickel | 7440-02-0 | mg/kg | 23.5 | 21.6 | 23.3 | 23.1 | 23.4 | 21.2 | 22 | 22.1 | 25.8 | 23.4 | 20.6 | 22.4 T |
| Silver | 7440-22-4 | mg/kg | 0.22 | 0.28 | 0.2 | 0.19 | 0.2 | 0.2 | 0.17 | 0.21 | 0.21 | 0.44 | 0.2 | 0.2 T |
| Zinc | 7440-66-6 | mg/kg | 114 | 153 | 109 | 102 | 106 | 100 | 92.5 | 101 | 109 | 187 | 95.7 | 129 T |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.8 J | 3.3 | 2.7 J | 1.4 J | 2.9 J | 2.1 J | 3.5 | 2.8 J | 21 | 900 | 6.8 | 4.8 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 3.4 | 4.6 | 3.5 | 2.1 J | 4.1 | 3.2 | 6.1 | 4.9 | 36 | 550 | 10 | 11 |
| Acenaphthene | 83-32-9 | ug/kg | 3.4 | 9.2 | 11 | 4.3 | 7.5 | 3.3 | 7.7 | 6.7 | 130 | 12000 | 120 | 16 |
| Acenaphthylene | 208-96-8 | ug/kg | 4.5 | 4.4 | 4 | 2.7 J | 5.2 | 3.8 | 8.2 | 6.3 | 13 | 1100 | 12 | 7.6 |
| Anthracene | 120-12-7 | ug/kg | 10 | 13 | 10 | 7.1 | 13 | 9.7 | 17 | 15 | 89 | 14000 | 56 | 23 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 29 | 38 | 41 | 21 | 35 | 30 | 66 | 44 | 280 | 10000 | 310 | 83 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 42 | 60 | 39 | 30 | 46 | 39 | 91 | 62 | 190 | 7800 | 420 | 110 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 48 | 65 | 53 | 34 | 54 | 48 | 88 | 67 | 320 | 6700 | 480 | 140 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 34 | 42 | 31 | 22 | 37 | 30 | 60 | 44 | 160 | 4800 | 260 | 87 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 40 | 55 | 32 | 28 | 43 | 35 | 76 | 56 | 100 | 4600 | 290 | 89 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 15 | 19 | 16 | 10 | 17 | 14 | 27 | 20 | 110 | 2100 | 150 | 46 |
| Chrysene | 218-01-9 | ug/kg | 46 | 54 | 51 | 29 | 50 | 47 | 82 | 60 | 350 | 11000 | 310 | 130 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 5.1 | 6.8 | 4.9 | 3.5 | 5.5 | 4.7 | 8.4 | 6.9 | 19 | 770 | 58 | 15 |
| Dibenzothiophene | 132-65-0 | ug/kg | 2 J | 3.7 | 3.7 | 1.5 J | 3.3 | 2.7 J | 5 | 4.6 | 33 | 11000 | 27 | 7.2 |
| Fluoranthene | 206-44-0 | ug/kg | 64 | 75 | 100 | 45 | 81 | 60 | 100 | 100 | 1300 | 28000 | 420 | 220 |
| Fluorene | 86-73-7 | ug/kg | 3.6 | 6.3 | 7.2 | 2.9 J | 6.5 | 3.7 | 5.7 | 5.8 | 120 | 10000 | 45 | 16 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 35 | 49 | 28 | 24 | 38 | 30 | 72 | 51 | 110 | 4400 | 320 | 86 |
| Naphthalene | 91-20-3 | ug/kg | 10 | 12 | 11 | 6.4 | 14 | 9.9 | 17 | 15 | 40 | 690 | 27 | 22 |
| Perylene | 198-55-0 | ug/kg | 32 | 35 | 35 | 17 | 39 | 23 | 28 | 39 | 67 | 1700 | 140 | 62 |
| Phenanthrene | 85-01-8 | ug/kg | 24 | 37 | 40 | 20 | 38 | 30 | 47 | 49 | 570 | 87000 | 340 | 100 |
| Pyrene | 129-00-0 | ug/kg | 74 | 120 | 140 | 51 | 87 | 65 | 130 | 110 | 1000 | 39000 | 420 | 200 |
| High Molecular Weight PAH | HPAH | ug/kg | 400 T | 540 T | 500 T | 280 T | 460 T | 370 T | 740 T | 580 T | 3800 T | 110000 T | 3200 T | 1100 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 59 T | 87 T | 87 T | 46 JT | 88 T | 64 T | 110 T | 100 T | 1000 T | 130000 T | 610 T | 200 T |
| Total PAHs | 130498-29-2 | ug/kg | 460 T | 630 T | 590 T | 320 JT | 540 T | 440 T | 850 T | 680 T | 4800 T | 240000 T | 3800 T | 1300 T |
| C1-Chrysene | C1_218-01-9 | ug/kg | 35 | 34 | 44 J | 28 J | 49 J | 35 J | 61 | 56 J | 160 | 12000 | 170 | 66 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 2.4 J | 2 J | 3.7 | 1.6 J | 2.5 J | 1.5 J | 4.4 | 6.7 | 9.4 | 2100 | 6.2 | 6.2 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 35 | 46 | 50 | 23 | 41 | 31 | 71 | 53 | 400 | 23000 J | 210 | 95 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 3.1 | 3.4 | 4.4 | 2.5 J | 5.3 | 3 J | 4.4 | 5 | 37 | 12000 | 28 | 8.9 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 12 | 24 | 33 | 15 | 26 | 19 | 39 | 29 | 310 | 70000 J | 140 | 38 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 19 | 20 | 24 | 14 | 24 | 16 | 34 | 32 | 59 | 8700 | 75 | 51 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 5.2 | 6.6 | 11 | 4.7 | 9.8 | 7.5 | 16 | 14 | 35 | 15000 | 24 | 15 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 24 | 28 | 32 | 14 | 26 | 23 | 48 | 38 | 120 | 14000 | 100 | 55 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 5.3 | 4.4 | 6.5 | 3.7 | 8.1 | 4.8 | 7.7 | 8.2 | 33 | 12000 | 21 | 17 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 4.4 | 8.5 | 18 | 5.7 | 10 | 4.5 | 7.7 | 6.7 | 45 | 27000 J | 78 | 15 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 23 | 15 | 23 | 11 | 21 | 14 | 50 | 52 | 160 | 44000 J | 83 | 61 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 17 | 13 | 16 | 9.1 | 21 | 13 | 23 | 28 | 40 | 4400 | 50 | 41 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 5.5 | 7.3 | 14 | 5.1 | 10 | 6.8 | 14 | 14 | 33 | 8000 | 17 | 24 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 13 | 14 | 17 | 9.1 | 18 | 13 | 26 | 29 | 47 | 8800 | 56 | 39 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 6.7 | 7.9 | 11 | 6.6 | 11 | 6.3 | 16 | 19 | 45 | 11000 | 25 | 23 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 3.2 | 6.3 | 10 | 3.6 | 6.9 | 4 | 5.7 | 5.9 | 24 | 21000 J | 49 | 7.7 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 33 | 21 | 32 | 12 | 23 | 15 | 41 | 43 | 84 | 23000 J | 61 | 53 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 10 | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 8.8 | 0.25 U | 18 | 2000 | 20 | 17 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 4.7 | 5.9 | 9.2 | 3.4 | 6.8 | 3.6 | 5.9 | 7.9 | 21 | 9900 | 22 | 9.6 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 8.1 | 7.6 | 14 | 5 | 11 | 8.2 | 18 | 23 | 36 | 6500 | 20 | 19 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 16.5 | 5.37 | 7.69 | 8.71 | 9.19 | 8.77 | 5.93 | 9.33 | 25.7 | 63.8 | | |
| PCB002 | 2051-61-8 | pg/g | 23.4 | 20.2 | 14.5 | 12.1 | 14 | 12.1 | 10.3 | 14.6 | 21.2 | 32.7 J | | |
| PCB003 | 2051-62-9 | pg/g | 31.6 | 5.89 | 7.79 | 8.59 | 8.04 | 7.61 | 4.96 U | 8.29 | 16.2 | 77.2 | | |
| PCB004 & 010 | PCB004_010 | pg/g | 138 | 20.6 | 46.4 | 37 | 48.7 | 41.8 | 20.9 | 33.5 | 149 | 89.2 J | | |
| PCB005 & 008 | PCB005_008 | pg/g | 582 | 39.8 | 74.7 | 104 | 86.8 | 79 | 37.9 | 80 | 179 | 351 | | |
| PCB006 | 25569-80-6 | pg/g | 185 | 9.83 J | 17.2 | 21.8 | 18.8 | 19.7 | 9.92 U | 17.6 | 52.4 | 68.8 J | | |
| PCB007 & 009 | PCB007_009 | pg/g | 28 | 9.88 U | 9.81 U | 9.82 U | 9.88 U | 9.68 U | 9.92 U | 9.78 U | 13 | 43.1 J | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G600 | LW3-G601 | LW3-G602 | LW3-G603 | LW3-G604 | LW3-G605 | LW3-G606 | LW3-G607 | LW3-G608 | LW3-G609 | LW3-G611 | LW3-G612-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 226 | 156 | 245 | 236 | 232 | 211 | 156 | 195 | 204 | 99.2 U | | |
| PCB012 & 013 | PCB012_013 | pg/g | 56.7 | 9.88 U | 9.81 U | 14.7 | 11.1 | 9.73 | 9.92 U | 11.8 | 20.3 | 52.1 J | | |
| PCB014 | 34883-41-5 | pg/g | 9.73 U | 9.88 U | 9.81 U | 9.82 U | 9.88 U | 9.68 U | 9.92 U | 9.78 U | 9.76 U | 99.2 U | | |
| PCB015 | 2050-68-2 | pg/g | 873 | 51.1 | 91.5 | 119 | 91.4 | 85.9 | 39.7 | 79.8 | 143 | 163 | | |
| PCB016 & 032 | PCB016_032 | pg/g | 472 | 40.1 | 86.5 | 77.6 | 96.5 | 81.3 | 45.6 | 83.1 | 142 | 534 | | |
| PCB017 | 37680-66-3 | pg/g | 390 | 31.1 | 62.1 | 52.4 | 65.7 | 58.1 | 38.1 | 59.8 | 99.9 | 395 | | |
| PCB018 | 37680-65-2 | pg/g | 715 | 60.5 | 104 | 110 | 132 | 115 | 60.6 | 119 | 182 | 557 | | |
| PCB019 | 38444-73-4 | pg/g | 81.1 | 25.7 | 150 | 25.7 | 30.9 | 30 | 29 | 36.1 | 52.7 | 65.1 | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 250 | 65 | 105 | 132 | 134 | 120 | 69.3 | 141 | 173 | 668 | | |
| PCB022 | 38444-85-8 | pg/g | 228 | 41.7 | 74.8 | 86.4 | 103 | 83.3 | 40.9 | 86.2 | 123 | 349 | | |
| PCB023 | 55720-44-0 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB024 & 027 | PCB024_027 | pg/g | 55.3 | 7.67 | 15.5 | 11.4 | 14.3 | 13.2 | 9.47 | 14 | 23.7 | 52.6 | | |
| PCB025 | 55712-37-3 | pg/g | 212 | 16.3 | 24.3 | 26.9 | 30 | 27.8 | 16.4 | 28.6 | 41.5 | 133 | | |
| PCB026 | 38444-81-4 | pg/g | 335 | 24.6 | 39.9 | 43.1 | 48.5 | 46.6 | 25.7 | 41.5 | 69.3 | 207 | | |
| PCB028 | 7012-37-5 | pg/g | 1470 | 145 | 251 | 261 | 338 | 257 | 154 | 264 | 444 | 1690 | | |
| PCB029 | 15862-07-4 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB030 | 35693-92-6 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB031 | 16606-02-3 | pg/g | 1130 | 114 | 189 | 217 | 238 | 217 | 114 | 237 | 340 | 1390 | | |
| PCB034 | 37680-68-5 | pg/g | 17.4 | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 25 J | | |
| PCB035 | 37680-69-6 | pg/g | 16.5 | 4.94 U | 6.07 | 7.14 | 9.06 | 4.84 U | 4.96 U | 5.95 | 8.43 | 25.4 J | | |
| PCB036 | 38444-87-0 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB037 | 38444-90-5 | pg/g | 433 | 59.5 | 104 | 107 | 118 | 98.1 | 48.5 | 102 | 169 | 418 | | |
| PCB038 | 53555-66-1 | pg/g | 16.8 | 4.94 U | 7.73 | 4.91 U | 4.97 | 4.84 U | 4.96 U | 4.89 U | 6.58 | 18.6 J | | |
| PCB039 | 38444-88-1 | pg/g | 12.4 | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 17 J | | |
| PCB040 | 38444-93-8 | pg/g | 222 | 22.6 | 46.6 | 41.5 | 47.8 | 40.5 | 20.2 | 40.4 | 81.9 | 301 | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 1560 | 145 | 295 | 245 | 273 | 241 | 121 | 235 | 476 | 1660 | | |
| PCB042 & 059 | PCB042_059 | pg/g | 442 | 47.2 | 91.8 | 77.6 | 95.5 | 85.3 | 41.2 | 83.8 | 160 | 581 | | |
| PCB043 & 049 | PCB043_049 | pg/g | 1580 | 151 | 309 | 214 | 293 | 251 | 135 | 243 | 472 | 1870 | | |
| PCB044 | 41464-39-5 | pg/g | 1370 | 144 | 290 | 237 | 307 | 266 | 132 | 259 | 518 | 1900 | | |
| PCB045 | 70362-45-7 | pg/g | 180 | 15.9 | 35.5 | 28.5 | 40.8 | 33.5 | 15.9 | 32.8 | 69.6 | 232 | | |
| PCB046 | 41464-47-5 | pg/g | 118 | 7.97 | 16.3 | 13.6 | 19.7 | 16.2 | 8.76 | 16 | 31.2 | 113 | | |
| PCB047 | 2437-79-8 | pg/g | 676 | 88.4 | 441 | 111 | 138 | 122 | 88.6 | 125 | 203 | 633 | | |
| PCB048 & 075 | PCB048_075 | pg/g | 221 | 25.7 | 59.4 | 45 | 58.6 | 47.9 | 24.8 | 50.7 | 89.9 | 388 | | |
| PCB050 | 62796-65-0 | pg/g | 7.56 | 4.94 U | 9.61 | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB051 | 68194-04-7 | pg/g | 116 | 22.8 | 137 | 24.1 | 29.7 | 28.5 | 23.7 | 33.5 | 44.1 | 79.3 | | |
| PCB052 & 069 | PCB052_069 | pg/g | 1680 | 184 | 334 | 271 | 367 | 297 | 171 | 303 | 565 | 2340 | | |
| PCB053 | 41464-41-9 | pg/g | 280 | 36.7 | 75.6 | 41.4 | 57 | 50.4 | 34.6 | 56 | 89.9 | 263 | | |
| PCB054 | 15968-05-5 | pg/g | 10 | 7.98 | 46 | 4.97 | 6.23 | 6.08 | 7.57 | 8.03 | 8.22 | 49.6 U | | |
| PCB055 | 74338-24-2 | pg/g | 18 | 4.94 U | 5.91 | 4.91 U | 5.64 | 4.84 U | 4.96 U | 4.98 | 8.28 | 30.4 J | | |
| PCB056 & 060 | PCB056_060 | pg/g | 1090 | 96.7 | 215 | 161 | 236 | 184 | 89.1 | 172 | 391 | 1140 | | |
| PCB057 | 70424-67-8 | pg/g | 8.67 | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 16.9 J | | |
| PCB058 | 41464-49-7 | pg/g | 6.08 | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 18.4 J | | |
| PCB061 & 070 | PCB061_070 | pg/g | 1740 | 203 | 373 | 312 | 420 | 335 | 188 | 345 | 635 | 2800 | | |
| PCB062 | 54230-22-7 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB063 | 74472-34-7 | pg/g | 67.3 | 6.72 | 13.2 | 10.4 | 13.9 | 11.2 | 6.71 | 11.7 | 22.5 | 87.5 | | |
| PCB065 | 33284-54-7 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB066 & 076 | PCB066_076 | pg/g | 1740 | 180 | 358 | 274 | 370 | 302 | 153 | 296 | 617 | 2260 | | |
| PCB067 | 73575-53-8 | pg/g | 39.5 | 6.18 | 10.7 | 9.35 | 10.9 | 9.77 | 4.96 U | 8.79 | 16.9 | 63.8 | | |
| PCB068 | 73575-52-7 | pg/g | 21.2 | 4.94 U | 7.81 | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 5.77 | 44.6 J | | |
| PCB073 | 74338-23-1 | pg/g | 25.1 | 4.94 U | 9.62 | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB074 | 32690-93-0 | pg/g | 763 | 79.4 | 154 | 123 | 172 | 134 | 70.2 | 139 | 289 | 884 | | |
| PCB077 | 32598-13-3 | pg/g | 212 | 22.9 | 42.3 | 33.4 | 50.9 | 36.8 | 20.5 | 36.2 | 73 | 181 | | |
| PCB078 | 70362-49-1 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB079 | 41464-48-6 | pg/g | 18.6 | 4.94 U | 6.76 | 5.46 | 6.6 | 5.71 | 4.96 U | 6.27 | 10 | 71 | | |
| PCB080 | 33284-52-5 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB081 | 70362-50-4 | pg/g | 7.09 | 0.677 J | 1.59 J | 1.22 J | 1.38 J | 1.92 J | 1.38 J | 2.41 J | 4.32 J | 6.25 J | | |
| PCB082 | 52663-62-4 | pg/g | 252 | 29.6 | 62.2 | 46.1 | 71.4 | 58 | 30.2 | 55.8 | 124 | 366 | | |
| PCB083 | 60145-20-2 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB084 & 092 | PCB084_092 | pg/g | 694 | 128 | 193 | 163 | 214 | 183 | 110 | 193 | 338 | 1790 | | |
| PCB085 & 116 | PCB085_116 | pg/g | 380 | 52.4 | 97.5 | 75.3 | 100 | 82.5 | 42.9 | 81.8 | 162 | 518 | | |
| PCB086 | 55312-69-1 | pg/g | 22.1 | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 8.21 | 49.6 U | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 600 | 98.5 | 178 | 141 | 188 | 157 | 88.6 | 161 | 299 | 1070 | | |
| PCB088 & 091 | PCB088_091 | pg/g | 345 | 58.4 | 92.7 | 73 | 85.6 | 76.1 | 50.1 | 78.1 | 139 | 619 | | |
| PCB089 | 73575-57-2 | pg/g | 33.2 | 4.94 U | 7.15 | 4.91 U | 7.86 | 5.97 | 4.96 U | 5.81 | 13.2 | 34.2 J | | |
| PCB090 & 101 | PCB090_101 | pg/g | 1510 | 350 | 515 | 436 | 545 | 457 | 291 | 488 | 806 | 4800 | | |
| PCB093 | 73575-56-1 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G600 | LW3-G601 | LW3-G602 | LW3-G603 | LW3-G604 | LW3-G605 | LW3-G606 | LW3-G607 | LW3-G608 | LW3-G609 | LW3-G611 | LW3-G612-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 18.6 | 5.05 | 6.82 | 5.2 | 5.39 | 5.22 | 4.96 U | 5.77 | 8.99 | 18.7 J | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 1240 | 253 | 371 | 322 | 391 | 323 | 213 | 358 | 586 | 3390 | | |
| PCB096 | 73575-54-9 | pg/g | 30.2 | 5.09 | 6.86 | 6.11 | 6.61 | 5.28 | 4.96 U | 6.37 | 10.8 | 30.8 J | | |
| PCB097 | 41464-51-1 | pg/g | 531 | 82.5 | 143 | 111 | 154 | 129 | 71.3 | 128 | 244 | 965 | | |
| PCB099 | 38380-01-7 | pg/g | 816 | 158 | 246 | 197 | 259 | 218 | 133 | 226 | 384 | 2190 | | |
| PCB100 | 39485-83-1 | pg/g | 24.1 | 12.7 | 103 | 12.6 | 12.1 | 13 | 10.7 | 14.8 | 16.8 | 57.8 | | |
| PCB103 | 60145-21-3 | pg/g | 25.7 | 11.2 | 23 | 8.63 UJ | 9.66 | 9.81 | 8.28 | 10.8 | 13.5 | 131 | | |
| PCB104 | 56558-16-8 | pg/g | 4.87 U | 4.94 U | 10.2 | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB105 | 32598-14-4 | pg/g | 659 | 97 | 185 | 145 | 215 | 169 | 93.2 | 172 | 323 | 788 | | |
| PCB106 & 118 | PCB106_118 | pg/g | 1430 | 279 | 449 | 382 | 490 | 424 | 237 | 439 | 739 | 2730 | | |
| PCB107 & 109 | PCB107_109 | pg/g | 119 | 23 | 35.2 | 29.3 | 39.3 | 33.2 | 20.5 | 34.1 | 60.6 | 320 | | |
| PCB108 & 112 | PCB108_112 | pg/g | 97.1 | 16.1 | 24.1 | 19.8 | 25.9 | 22.9 | 11.4 | 22 | 43.6 | 180 | | |
| PCB110 | 38380-03-9 | pg/g | 1850 | 391 | 599 | 500 | 618 | 521 | 315 | 541 | 933 | 4300 | | |
| PCB111 & 115 | PCB111_115 | pg/g | 40.9 | 5.47 | 9.86 | 8.6 | 9.4 | 9.37 | 5.03 | 8.47 | 17.9 | 49.9 | | |
| PCB113 | 68194-10-5 | pg/g | 5.95 | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB114 | 74472-37-0 | pg/g | 41.4 | 5.13 | 10.6 | 8.16 | 12.2 | 9.27 | 5.58 | 10.3 | 18.4 | 53.7 | | |
| PCB119 | 56558-17-9 | pg/g | 53.4 | 14.1 | 20.8 | 13.2 | 15.9 | 14.6 | 9.86 | 16 | 23.8 | 219 | | |
| PCB120 | 68194-12-7 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 61 | | |
| PCB121 | 56558-18-0 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB122 | 76842-07-4 | pg/g | 25.3 | 4.94 U | 6.55 | 4.91 U | 7.33 | 6 | 4.96 U | 5.55 | 9.92 | 30.2 J | | |
| PCB123 | 65510-44-3 | pg/g | 35.6 | 5.04 | 9.74 | 6.83 | 10.2 | 9.36 | 4.25 J | 8.05 | 15.7 | 40.5 J | | |
| PCB124 | 70424-70-3 | pg/g | 55.7 | 11.2 | 20.2 | 17 | 21.2 | 18.3 | 7.49 | 18.3 | 33.5 | 149 | | |
| PCB126 | 57465-28-8 | pg/g | 9.77 | 2.65 J | 4.18 J | 3.26 J | 4.47 J | 4.59 U | 2.62 J | 4.08 J | 5.88 | 15.9 J | | |
| PCB127 | 39635-33-1 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB128 & 162 | PCB128_162 | pg/g | 190 | 60.5 | 88.1 | 75.7 | 98 | 85 | 53.1 | 88.7 | 131 | 597 | | |
| PCB129 | 55215-18-4 | pg/g | 57.5 | 14.9 | 23.5 | 22.3 | 26.3 | 24.3 | 12.7 | 24.9 | 37.8 | 146 | | |
| PCB130 | 52663-66-8 | pg/g | 72.9 | 28.5 | 36.4 | 32.1 | 44.3 | 40.3 | 25.6 | 41.3 | 57.1 | 406 | | |
| PCB131 | 61798-70-7 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB132 & 161 | PCB132_161 | pg/g | 327 | 128 | 163 | 145 | 175 | 150 | 99.6 | 163 | 242 | 1700 | | |
| PCB133 & 142 | PCB133_142 | pg/g | 39.1 | 18.1 | 18.5 | 17.6 | 22.5 | 17.8 | 14.1 | 19.2 | 28.5 | 298 | | |
| PCB134 & 143 | PCB134_143 | pg/g | 66.9 | 22.9 | 30.8 | 26.8 | 33.2 | 30.5 | 20.2 | 30.4 | 46.1 | 302 | | |
| PCB135 | 52744-13-5 | pg/g | 185 | 83.8 | 99.4 | 87.7 | 81.2 | 71.6 | 51.9 | 77.6 | 107 | 1250 | | |
| PCB136 | 38411-22-2 | pg/g | 174 | 75.9 | 86.6 | 80.4 | 74.5 | 68.7 | 49.6 | 77.1 | 107 | 1000 | | |
| PCB137 | 35694-06-5 | pg/g | 57.8 | 17.2 | 23.9 | 19.7 | 26.9 | 22.2 | 14 | 22.2 | 38.4 | 122 | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 1190 | 502 | 649 | 578 | 677 | 601 | 399 | 650 | 925 | 6120 | | |
| PCB139 & 149 | PCB139_149 | pg/g | 1110 | 510 | 611 | 548 | 498 | 439 | 294 | 473 | 654 | 6590 | | |
| PCB140 | 59291-64-4 | pg/g | 11.4 | 6.93 | 5.57 | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 5.46 | 141 | | |
| PCB141 | 52712-04-6 | pg/g | 205 | 90.2 | 119 | 101 | 124 | 109 | 71.7 | 118 | 171 | 1280 | | |
| PCB144 | 68194-14-9 | pg/g | 59.6 | 26.2 | 30.2 | 29.8 | 26.2 | 23.5 | 16.3 | 26.3 | 38.1 | 301 | | |
| PCB145 | 74472-40-5 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB146 & 165 | PCB146_165 | pg/g | 189 | 104 | 105 | 95.9 | 112 | 102 | 67.8 | 110 | 149 | 1850 | | |
| PCB147 | 68194-13-8 | pg/g | 43.1 | 20 | 28.4 | 21.4 | 18.7 | 17.2 | 11.3 | 18.6 | 22.2 | 120 | | |
| PCB148 | 74472-41-6 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 69.7 | | |
| PCB150 | 68194-08-1 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 53.7 | | |
| PCB151 | 52663-63-5 | pg/g | 299 | 154 | 175 | 160 | 145 | 130 | 94.7 | 142 | 194 | 2070 | | |
| PCB152 | 68194-09-2 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB153 | 35065-27-1 | pg/g | 1090 | 528 | 643 | 562 | 674 | 609 | 405 | 650 | 886 | 7730 | | |
| PCB154 | 60145-22-4 | pg/g | 30.8 | 20.1 | 16.6 | 14.7 | 13.8 | 11.8 | 8.98 | 14 | 17.8 | 377 | | |
| PCB155 | 33979-03-2 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB156 | 38380-08-4 | pg/g | 123 | 38.9 | 56.1 | 49.4 | 62.9 | 52.4 | 32 | 55.2 | 83.3 | 449 | | |
| PCB157 | 69782-90-7 | pg/g | 27.9 | 8.1 | 11.7 | 10.8 | 13.7 | 10.7 | 6.87 | 12.3 | 18 | 60.1 | | |
| PCB158 & 160 | PCB158_160 | pg/g | 132 | 48 | 66.7 | 56.5 | 66.9 | 60.9 | 37.5 | 64.1 | 94.4 | 528 | | |
| PCB159 | 39635-35-3 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB166 | 41411-63-6 | pg/g | 5.34 | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB167 | 52663-72-6 | pg/g | 48.8 | 17.2 | 24.9 | 21.4 | 26.4 | 22.2 | 14.6 | 23.9 | 34.4 | 175 | | |
| PCB168 | 59291-65-5 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 21.5 J | | |
| PCB169 | 32774-16-6 | pg/g | 0.949 U | 0.769 U | 1.98 U | 1.33 U | 1.04 U | 0.711 U | 0.695 U | 0.894 U | 1.02 U | 9.08 U | | |
| PCB170 | 35065-30-6 | pg/g | 307 | 162 | 190 | 164 | 190 | 180 | 110 | 189 | 277 | 2390 | | |
| PCB171 | 52663-71-5 | pg/g | 81.7 | 44 | 54.7 | 44.8 | 51.7 | 49.2 | 31 | 51.6 | 75.4 | 644 | | |
| PCB172 | 52663-74-8 | pg/g | 51.4 | 29.8 | 36 | 29.4 | 34.2 | 32.6 | 21.3 | 33.9 | 49.6 | 416 | | |
| PCB173 | 68194-16-1 | pg/g | 9.18 | 4.94 U | 5.43 | 4.91 U | 5.3 | 4.84 U | 4.96 U | 5.24 | 7.76 | 54.5 | | |
| PCB174 | 38411-25-5 | pg/g | 345 | 202 | 240 | 189 | 231 | 214 | 139 | 231 | 337 | 2890 | | |
| PCB175 | 40186-70-7 | pg/g | 15.2 | 8.92 | 9.68 | 8.91 | 10.4 | 9.07 | 5.67 | 10.7 | 15.6 | 134 | | |
| PCB176 | 52663-65-7 | pg/g | 43.2 | 27.9 | 27.6 | 25.3 | 28.8 | 26.3 | 17.5 | 28 | 42.2 | 392 | | |
| PCB177 | 52663-70-4 | pg/g | 199 | 117 | 138 | 112 | 130 | 122 | 78.2 | 130 | 186 | 1730 | | |
| PCB178 | 52663-67-9 | pg/g | 74.4 | 51.3 | 48 | 42.3 | 50.6 | 48.6 | 30.8 | 50.2 | 72.2 | 636 | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G600 | LW3-G601 | LW3-G602 | LW3-G603 | LW3-G604 | LW3-G605 | LW3-G606 | LW3-G607 | LW3-G608 | LW3-G609 | LW3-G611 | LW3-G612-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 159 | 102 | 99.3 | 90.6 | 107 | 97.4 | 65.1 | 107 | 151 | 1400 | | |
| PCB180 | 35065-29-3 | pg/g | 728 | 420 | 478 | 412 | 484 | 465 | 292 | 484 | 709 | 6060 | | |
| PCB181 | 74472-47-2 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB182 & 187 | PCB182_187 | pg/g | 451 | 297 | 295 | 264 | 317 | 286 | 186 | 301 | 435 | 3820 | | |
| PCB183 | 52663-69-1 | pg/g | 186 | 114 | 119 | 107 | 128 | 112 | 74.4 | 121 | 178 | 1570 | | |
| PCB184 | 74472-48-3 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB185 | 52712-05-7 | pg/g | 39.4 | 21.5 | 26.7 | 20.8 | 24.7 | 23.1 | 14.9 | 24.2 | 36.8 | 301 | | |
| PCB186 | 74472-49-4 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB188 | 74487-85-7 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 14.8 J | | |
| PCB189 | 39635-31-9 | pg/g | 11.8 | 6.35 | 6.8 | 6.03 | 7.24 | 7.25 | 4.51 J | 7.32 | 10.8 | 82.5 | | |
| PCB190 | 41411-64-7 | pg/g | 70.4 | 36.8 | 43.6 | 36.5 | 40.6 | 38.7 | 24 | 40.5 | 59.9 | 528 | | |
| PCB191 | 74472-50-7 | pg/g | 11.6 | 6.83 | 8.11 | 6.06 | 7.44 | 7.08 | 5.5 | 8.51 | 10.7 | 105 | | |
| PCB192 | 74472-51-8 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB193 | 69782-91-8 | pg/g | 37.8 | 22.8 | 25.6 | 21 | 25.3 | 23.7 | 14.6 | 24.9 | 36.8 | 333 | | |
| PCB194 | 35694-08-7 | pg/g | 175 | 99.6 | 114 | 101 | 124 | 114 | 63.8 | 112 | 185 | 1360 | | |
| PCB195 | 52663-78-2 | pg/g | 75.2 | 46.1 | 45.9 | 40.6 | 47.9 | 44.7 | 27.7 | 44.8 | 77.6 | 621 | | |
| PCB196 & 203 | PCB196_203 | pg/g | 205 | 141 | 135 | 122 | 159 | 149 | 85 | 148 | 229 | 1840 | | |
| PCB197 | 33091-17-7 | pg/g | 5.98 | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.97 | 7.47 | 64.7 | | |
| PCB198 | 68194-17-2 | pg/g | 10.6 | 6.47 | 7.39 | 5.53 | 9.33 | 6.88 | 4.96 U | 7.56 | 10.1 | 84.9 | | |
| PCB199 | 52663-75-9 | pg/g | 193 | 141 | 129 | 120 | 158 | 147 | 85.8 | 152 | 219 | 1670 | | |
| PCB200 | 52663-73-7 | pg/g | 24.3 | 17 | 17 | 14.1 | 19.8 | 18 | 10.3 | 17.1 | 27.9 | 211 | | |
| PCB201 | 40186-71-8 | pg/g | 23.4 | 15 | 15.1 | 14.4 | 17.2 | 16.3 | 9.05 | 15.7 | 24.3 | 197 | | |
| PCB202 | 2136-99-4 | pg/g | 39.5 | 24.1 | 25.9 | 24.1 | 31.7 | 26.8 | 16 | 26.4 | 38.2 | 270 | | |
| PCB204 | 74472-52-9 | pg/g | 4.87 U | 4.94 U | 4.91 U | 4.91 U | 4.94 U | 4.84 U | 4.96 U | 4.89 U | 4.88 U | 49.6 U | | |
| PCB205 | 74472-53-0 | pg/g | 8 | 5.03 | 5.52 | 5.53 | 5.6 | 4.93 | 4.96 U | 5.52 | 8.96 | 63.3 | | |
| PCB206 | 40186-72-9 | pg/g | 116 | 66.7 | 80.9 | 65.1 | 83.7 | 83.9 | 39.3 | 66.8 | 96.4 | 871 | | |
| PCB207 | 52663-79-3 | pg/g | 12.1 | 7.08 | 8.63 | 6.87 UJ | 8.86 | 7.99 | 5 | 7.01 UJ | 10.2 | 80.7 | | |
| PCB208 | 52663-77-1 | pg/g | 34.5 | 19.8 | 26.1 | 20.6 | 26.4 | 28.9 | 12.9 | 20.9 | 29 | 304 | | |
| PCB209 | 2051-24-3 | pg/g | 107 | 63.9 | 73.6 | 59.9 | 78.3 | 88.1 | 40.3 | 62.1 | 82.8 | 1110 | | |
| Total PCB Congeners | 1336-36-3 | pg/g | 42700 T | 9380 JT | 14200 JT | 11700 JT | 14100 JT | 12300 JT | 7350 JT | 12700 JT | 20800 JT | 116000 JT | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 1.07 T | 0.281 JT | 0.445 JT | 0.349 JT | 0.478 JT | 0.0254 JT | 0.276 JT | 0.434 JT | 0.634 JT | 1.74 JT | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 71.5 T | 31.5 T | 30 T | 29.4 T | 31.2 T | 28.5 T | 16.2 T | 32.2 T | 63.1 T | 174 JT | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 2090 T | 277 JT | 475 T | 533 T | 489 T | 447 T | 255 T | 418 T | 761 T | 767 JT | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 5830 T | 631 T | 1220 T | 1160 T | 1360 T | 1150 T | 652 T | 1220 T | 1880 T | 6540 JT | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 14200 T | 1490 JT | 3380 JT | 2280 JT | 3020 JT | 2510 JT | 1350 JT | 2510 JT | 4880 JT | 18000 JT | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 10900 T | 2090 JT | 3430 JT | 2720 JT | 3520 JT | 2960 T | 1760 JT | 3090 JT | 5380 T | 24900 JT | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 5740 T | 2520 T | 3110 T | 2760 T | 3040 T | 2700 T | 1800 T | 2900 T | 4090 T | 33800 JT | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 2820 T | 1670 T | 1850 T | 1580 T | 1870 T | 1740 T | 1110 JT | 1850 T | 2690 T | 23500 JT | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 760 T | 495 T | 495 T | 447 T | 573 T | 528 T | 298 T | 534 T | 828 T | 6380 T | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 163 T | 93.6 T | 116 T | 85.7 T | 119 T | 121 T | 57.2 T | 87.7 T | 136 T | 1260 T | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.31 U | 0.3 U | 0.31 U | 0.2 U | 0.26 U | 0.32 U | 0.29 U | 0.32 U | 0.31 U | 1.7 U | 1.6 J | 0.96 |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.056 U | 0.046 U | 0.058 U | 0.057 U | 0.056 U | 0.057 U | 0.05 U | 0.24 U | 0.057 U | 0.47 U | 0.4 U | 0.21 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 1.1 U | 0.061 U | 0.077 U | 0.62 U | 0.8 U | 0.52 U | 0.37 U | 0.5 U | 0.83 | 41 U | 0.74 J | 0.62 |
| 4,4'-DDD | 72-54-8 | ug/kg | 1.2 | 1 | 1 | 1.1 | 1.2 | 1.7 | 1.3 | 1.2 | 1.5 | 19 | 3.8 | 1.5 |
| 4,4'-DDE | 72-55-9 | ug/kg | 2.6 J | 1.6 | 2.1 | 2.1 | 2.2 | 2.5 | 1.8 | 2 | 2.7 J | 13 U | 2.8 J | 1.7 |
| 4,4'-DDT | 50-29-3 | ug/kg | 1.9 J | 5.5 | 1.8 J | 2.1 J | 0.62 U | 1.5 J | 0.42 U | 0.81 U | 0.89 U | 4.4 U | 3.4 | 2 NJ |
| Aldrin | 309-00-2 | ug/kg | 0.37 U | 0.73 NJ | 0.31 U | 0.34 U | 0.29 U | 0.43 U | 1.4 NJ | 0.43 U | 0.88 NJ | 1.3 U | 0.21 U | 0.45 NJ |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.31 U | 0.2 U | 0.047 U | 0.18 J | 0.12 U | 0.19 U | 0.28 J | 0.15 J | 0.23 U | 13 U | 0.49 U | 0.11 NJ |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.12 U | 0.19 U | 0.26 U | 0.25 U | 0.12 U | 0.12 U | 0.11 U | 0.12 U | 0.12 U | 1.8 J | 0.12 U | 0.098 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.25 U | 0.11 U | 0.29 U | 0.25 U | 0.038 U | 0.15 U | 0.13 U | 0.22 U | 0.21 U | 5.6 U | 0.45 U | 0.032 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.17 U | 0.14 U | 0.26 U | 0.25 U | 0.2 U | 0.19 NJ | 0.16 U | 0.17 U | 0.31 U | 3.4 U | 0.21 U | 0.17 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.038 U | 0.031 U | 0.039 U | 0.038 U | 0.038 U | 0.038 U | 0.067 U | 0.036 U | 0.038 U | 0.32 U | 0.032 U | 0.032 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.69 U | 0.3 U | 0.44 U | 0.33 U | 0.38 U | 0.41 U | 0.32 U | 0.49 U | 0.53 U | 5.4 U | 0.54 | 0.51 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.14 U | 0.11 U | 0.14 U | 0.15 U | 0.14 U | 0.14 U | 0.12 U | 0.13 U | 0.16 J | 2.1 U | 0.19 NJ | 0.12 U |
| Dieldrin | 60-57-1 | ug/kg | 1.4 NJ | 0.4 J | 0.74 NJ | 0.71 J | 0.63 J | 0.037 U | 0.033 U | 0.035 U | 0.53 J | 3.8 U | 0.44 U | 0.14 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.071 U | 0.058 U | 0.26 U | 0.071 U | 0.32 U | 0.25 U | 0.22 U | 0.24 U | 0.25 U | 2.1 U | 0.21 U | 0.21 U |
| Endrin | 72-20-8 | ug/kg | 0.17 U | 0.071 U | 0.26 U | 0.087 U | 0.25 U | 0.25 U | 0.37 U | 0.083 U | 0.18 U | 3.5 U | 0.21 U | 0.072 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.17 U | 0.17 U | 0.26 U | 0.25 U | 0.25 U | 0.19 U | 0.046 U | 0.049 U | 0.25 U | 14 NJ | 0.043 U | 0.043 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.25 U | 0.2 U | 0.16 U | 0.17 U | 0.25 U | 0.38 J | 0.28 J | 0.27 U | 0.19 U | 6.4 NJ | 0.25 U | 0.23 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.25 U | 0.2 U | 0.26 U | 0.25 U | 0.25 U | 0.25 U | 0.22 U | 0.24 U | 0.35 U | 9.9 NJ | 0.21 U | 0.25 U |
| Heptachlor | 76-44-8 | ug/kg | 1.6 J | 0.076 U | 0.26 U | 0.093 U | 0.25 U | 0.093 U | 0.082 U | 0.089 U | 0.25 U | 3.2 U | 0.21 U | 0.21 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.59 J | 0.2 U | 0.71 J | 0.81 NJ | 0.26 U | 0.25 U | 0.22 U | 0.24 U | 0.28 U | 0.69 U | 0.21 U | 0.14 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.73 U | 0.48 U | 0.095 U | 0.35 U | 0.091 U | 0.092 U | 0.081 U | 0.46 U | 0.092 U | 5.3 U | 0.076 U | 0.59 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G600 | LW3-G601 | LW3-G602 | LW3-G603 | LW3-G604 | LW3-G605 | LW3-G606 | LW3-G607 | LW3-G608 | LW3-G609 | LW3-G611 | LW3-G612-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.23 U | 0.12 U | 0.16 U | 0.15 U | 0.15 U | 0.15 U | 0.13 U | 0.14 U | 0.15 U | 2.1 U | 0.13 U | 0.13 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.31 U | 0.2 U | 0.077 U | 0.27 U | 0.25 U | 0.21 J | 1.1 U | 0.071 U | 0.3 | 11 J | 0.45 U | 0.062 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.81 JT | 0.32 JT | 0.4 JT | 0.4 T | 0.38 JT | 0.77 JT | 0.36 T | 0.53 JT | 0.82 T | 11 JT | 0.75 JT | 0.42 T |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.31 UT | 0.2 UT | 0.29 UT | 0.18 JT | 0.32 UT | 0.25 UT | 0.28 JT | 0.15 JT | 0.25 UT | 13 UT | 0.49 UT | 0.11 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 1.2 T | 1 T | 1 T | 1.1 T | 1.2 T | 1.7 T | 1.3 T | 1.2 T | 1.5 T | 19 T | 5.4 JT | 2.5 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 5.7 JT | 8.1 T | 4.9 JT | 5.3 JT | 3.4 T | 5.7 JT | 3.1 T | 3.2 T | 5 JT | 19 T | 12 JT | 6.8 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 2.6 JT | 1.6 T | 2.1 T | 2.1 T | 2.2 T | 2.5 T | 1.8 T | 2 T | 2.7 JT | 13 UT | 2.8 JT | 1.7 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 1.9 JT | 5.5 T | 1.8 JT | 2.1 JT | 0.8 UT | 1.5 JT | 0.42 UT | 0.81 UT | 0.83 T | 41 UT | 4.1 JT | 2.6 JT |
| Toxaphene | 8001-35-2 | ug/kg | 35 U | 20 U | 23 U | 23 U | 20 U | 29 U | 16 U | 26 U | 28 U | 760 U | 39 U | 39 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.81 NJ | 0.27 | 0.4 J | 0.4 | 0.38 J | 0.41 J | 0.36 | 0.37 | 0.52 | 3.8 U | 0.39 U | 0.42 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.27 U | 0.051 J | 0.043 U | 0.12 U | 0.1 U | 0.15 J | 0.16 U | 0.16 J | 0.25 U | 3.9 U | 0.21 J | 0.04 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 83 J | 59.2 JT | 84 J | 76 J | 85 J | 67 J | 59 J | 64 J | 89 J | 2600 J | 79 J | 93 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 50 J | 39.3 JT | 51 J | 44 J | 49 J | 41 J | 25 J | 39 J | 46 J | 1500 J | 54 J | 55 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 460 J | 335 JT | 500 J | 480 J | 510 J | 460 J | 420 J | 440 J | 510 J | 1800 J | 380 J | 350 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 190 J | 148 JT | 200 J | 180 J | 210 J | 170 J | 110 J | 160 J | 180 J | 850 J | 180 J | 180 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 543 JA | 394 JA | 584 JA | 556 JA | 595 JA | 527 JA | 479 JA | 504 JA | 599 JA | 4400 JA | 459 JA | 443 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 240 JA | 187 JA | 251 JA | 224 JA | 259 JA | 211 JA | 135 JA | 199 JA | 226 JA | 2350 JA | 234 JA | 235 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.51 U | 0.42 U | 0.52 U | 0.51 U | 0.51 U | 0.52 U | 0.45 U | 0.48 U | 0.99 U | 4.2 U | 0.42 U | 0.63 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.41 U | 0.34 U | 0.42 U | 0.41 U | 0.41 U | 0.42 U | 0.36 U | 0.39 U | 1.7 J | 0.34 U | 0.34 U | 0.34 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.4 U | 1.1 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.2 U | 1.3 U | 1.4 U | 9.8 U | 1.1 U | 1.1 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.27 U | 0.22 U | 0.28 U | 0.27 U | 0.27 U | 0.27 U | 0.24 U | 0.25 U | 0.27 U | 0.22 U | 0.22 U | 0.22 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.2 U | 1 U | 6.3 U | 1.3 U | 6.2 U | 1.3 U | 1.1 U | 5.9 U | 6.2 U | 21 U | 5.1 U | 1.1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 6.6 U | 5.5 U | 35 U | 6.8 U | 34 U | 6.8 U | 6 U | 32 U | 34 U | 120 U | 28 U | 5.6 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 21 U | 17 U | 110 U | 21 U | 110 U | 21 U | 19 U | 99 U | 110 U | 350 U | 86 U | 18 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.4 U | 2 U | 13 U | 2.5 U | 13 U | 2.5 U | 2.2 U | 12 U | 13 U | 41 U | 11 U | 2.1 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.8 U | 1.5 U | 9.5 U | 1.9 U | 9.2 U | 1.9 U | 1.7 U | 8.8 U | 9.2 U | 31 U | 7.6 U | 1.6 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.8 U | 1.5 U | 9.5 U | 1.9 U | 9.2 U | 1.9 U | 1.7 U | 8.8 U | 9.2 U | 31 U | 7.6 U | 1.6 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.7 U | 1.4 U | 8.8 U | 1.8 U | 8.6 U | 1.8 U | 1.6 U | 8.2 U | 8.6 U | 29 U | 7.1 U | 1.5 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.7 U | 1.4 U | 8.8 U | 1.8 U | 8.6 U | 1.8 U | 1.6 U | 8.2 U | 8.6 U | 29 U | 7.1 U | 1.5 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 5.9 J | 5 J | 9.5 U | 11 J | 11 J | 8.6 J | 7 J | 8.8 U | 9.2 U | 31 U | 10 J | 6 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 22 U | 18 U | 120 U | 23 U | 110 U | 22 U | 20 U | 110 U | 110 U | 370 U | 91 U | 19 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.39 U | 0.32 U | 0.4 U | 0.39 U | 0.39 U | 0.4 U | 0.34 U | 0.37 U | 57 | 1.3 U | 0.62 U | 1.6 U |
| Phenol | 108-95-2 | ug/kg | 6.7 J | 4.4 J | 13 U | 6.6 J | 13 U | 5.8 J | 6.6 J | 12 U | 13 U | 41 U | 11 U | 26 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 130 | 89 | 260 | 180 | 210 | 130 | 100 | 180 | 140 | 150 U | 110 | 98 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 8.6 J | 3.2 U | 21 U | 14 | 20 U | 13 | 17 | 19 U | 20 U | 66 U | 17 U | 15 |
| Dibutyl phthalate | 84-74-2 | ug/kg | 18 | 12 | 50 U | 25 | 49 U | 25 | 18 | 46 U | 49 U | 170 U | 40 U | 15 |
| Diethyl phthalate | 84-66-2 | ug/kg | 3.4 J | 3 J | 11 J | 4.2 J | 10 J | 4.7 J | 3.8 J | 9.7 J | 8.9 J | 27 U | 9 J | 3.4 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.4 J | 1 U | 6.3 U | 1.3 U | 6.2 U | 1.3 U | 1.1 U | 5.9 U | 6.2 U | 21 U | 5.1 U | 1.1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 2.1 U | 1.7 U | 11 U | 2.1 U | 11 U | 2.1 U | 1.9 U | 9.9 U | 11 U | 35 U | 8.6 U | 1.8 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 3.2 U | 2.6 U | 17 U | 3.2 U | 16 U | 3.2 U | 2.8 U | 16 U | 16 U | 53 U | 14 U | 2.7 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3.5 U | 2.9 U | 19 U | 3.6 U | 18 U | 3.6 U | 3.2 U | 17 U | 18 U | 59 U | 15 U | 3 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.6 U | 3 U | 19 U | 3.7 U | 19 U | 3.7 U | 3.3 U | 18 U | 19 U | 61 U | 16 U | 3.1 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3.5 U | 2.9 U | 19 U | 3.6 U | 18 U | 3.6 U | 3.2 U | 17 U | 18 U | 59 U | 15 U | 3 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.8 U | 1.5 U | 9.5 U | 1.9 U | 9.2 U | 1.9 U | 1.7 U | 8.8 U | 9.2 U | 31 U | 7.6 U | 1.6 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.4 U | 2 U | 13 U | 2.5 U | 13 U | 2.5 U | 2.2 U | 12 U | 13 U | 41 U | 11 U | 2.1 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 2 U | 1.6 U | 11 U | 2 U | 9.8 U | 2 U | 1.8 U | 9.3 U | 9.8 U | 33 U | 8.1 U | 1.7 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.9 U | 3.2 U | 21 U | 4 U | 20 U | 4 U | 3.5 U | 19 U | 20 U | 66 U | 17 U | 3.3 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 4.5 U | 3.7 U | 24 U | 4.6 U | 23 U | 4.6 U | 4 U | 22 U | 23 U | 76 U | 19 U | 3.8 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 3 U | 2.5 U | 16 U | 3.1 U | 16 U | 3.1 U | 2.7 U | 15 U | 16 U | 51 U | 13 U | 2.6 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 2 U | 1.6 U | 11 U | 2 U | 9.8 U | 2 U | 1.8 U | 9.3 U | 9.8 U | 33 U | 8.1 U | 1.7 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2.3 U | 1.9 U | 12 U | 2.4 U | 12 U | 2.4 U | 2.1 U | 12 U | 12 U | 39 U | 9.6 U | 2 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.7 U | 1.4 U | 8.8 U | 1.8 U | 8.6 U | 1.8 U | 1.6 U | 8.2 U | 8.6 U | 29 U | 7.1 U | 1.5 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 2.2 U | 1.8 U | 12 U | 2.3 U | 11 U | 2.2 U | 2 U | 11 U | 11 U | 37 U | 9.1 U | 1.9 U |
| Aniline | 62-53-3 | ug/kg | 1.8 U | 1.5 U | 9.5 U | 1.9 U | 9.2 U | 1.9 U | 13 J | 8.8 U | 9.2 U | 31 U | 7.6 U | 1.6 U |
| Azobenzene | 103-33-3 | ug/kg | 1.4 U | 1.1 U | 6.9 U | 1.4 U | 6.8 U | 1.4 U | 1.2 U | 6.4 U | 6.8 U | 23 U | 5.6 U | 1.2 U |
| Benzoic acid | 65-85-0 | ug/kg | 120 U | 97 J | 610 U | 120 U | 590 U | 120 U | 120 J | 560 U | 590 U | 2000 U | 490 U | 290 |
| Benzyl alcohol | 100-51-6 | ug/kg | 4.2 J | 4 J | 14 U | 5.6 J | 13 U | 6.6 J | 5.8 J | 13 U | 13 U | 43 U | 11 U | 11 |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.8 U | 1.5 U | 9.5 U | 1.9 U | 9.2 U | 1.9 U | 1.7 U | 8.8 U | 9.2 U | 31 U | 7.6 U | 1.6 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2.3 U | 1.9 U | 12 U | 2.4 U | 12 U | 2.4 U | 2.1 U | 12 U | 12 U | 39 U | 9.6 U | 2 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 3.2 U | 2.6 U | 17 U | 3.2 U | 16 U | 3.2 U | 2.8 U | 16 U | 16 U | 53 U | 14 U | 2.7 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G600 | LW3-G601 | LW3-G602 | LW3-G603 | LW3-G604 | LW3-G605 | LW3-G606 | LW3-G607 | LW3-G608 | LW3-G609 | LW3-G611 | LW3-G612-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 3.1 J | 4.1 J | 9.6 J | 3 J | 8 U | 3.1 J | 4.3 J | 7.6 U | 19 J | 720 | 28 J | 12 |
| Dibenzofuran | 132-64-9 | ug/kg | 1.9 J | 2.7 | 3.4 | 1.4 J | 3.3 | 2.2 J | 2.9 | 3 J | 81 | 1400 | 8.3 | 8 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.29 U | 1.2 U | 7.6 U | 1.5 U | 0.83 J | 0.25 U | 0.17 U | 0.24 U | 0.25 U | 3.4 U | 0.21 U | 0.49 J |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.17 U | 0.17 U | 0.36 U | 0.36 U | 0.17 U | 0.18 U | 0.33 U | 0.17 U | 1.1 J | 1.5 U | 0.41 U | 0.15 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 35 U | 29 U | 190 U | 36 U | 180 U | 36 U | 32 U | 170 U | 180 U | 590 U | 150 U | 30 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.2 U | 3.1 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.18 U | 0.19 U | 0.2 U | 1.7 U | 0.25 U | 0.17 U |
| Isophorone | 78-59-1 | ug/kg | 1.2 U | 1 U | 6.3 U | 1.3 U | 6.2 U | 1.3 U | 1.1 U | 5.9 U | 6.2 U | 21 U | 5.1 U | 1.1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.7 U | 2.2 U | 14 U | 2.7 U | 14 U | 2.7 U | 2.4 U | 13 U | 14 U | 45 U | 12 U | 2.3 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 7.3 U | 6.1 U | 39 U | 7.5 U | 38 U | 7.5 U | 6.6 U | 36 U | 38 U | 130 U | 31 U | 6.2 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 2 U | 1.6 U | 11 U | 2 U | 9.8 U | 2 U | 1.8 U | 9.3 U | 9.8 U | 33 U | 8.1 U | 2 J |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.9 U | 2.4 U | 16 U | 3 U | 15 U | 3 U | 2.6 U | 14 U | 15 U | 49 U | 13 U | 2.5 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G612-2 | LW3-G613 | LW3-G614 | LW3-G616 | LW3-G617 | LW3-G618 | LW3-G619 | LW3-G620 | LW3-G621 | LW3-G622 | LW3-G623 | LW3-G624 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 21 | 0 - 28 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 8.6 U | 1.5 U | 1.4 U | 7.2 U | 4.7 U | 11 U | 26 U | 2.8 U | 1.6 U | 1.6 U | 1.4 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 2.2 U | 1.5 U | 2.5 U | 1.4 U | 1.4 U | 11 U | 1.6 U | 4.3 U | 1.6 U | 1.6 U | 1.4 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 8.3 U | 1.5 U | 8.3 U | 9.3 U | 18 U | 15 U | 53 U | 7.8 U | 1.6 U | 1.6 U | 1.4 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 3.4 J | 4.7 U | 27 U | 1.3 U | 3 U | 4.9 U | 6.2 U | 8.2 U | 1.3 U | 2.8 J | 3.6 J | 1.4 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.5 U | 1.5 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.6 U | 1.3 U | 1.6 U | 1.6 U | 1.4 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 4.1 U | 6.4 U | 1.5 U | 1.3 U | 5.7 J | 9.3 | 10 | 4.4 U | 1.9 J | 11 | 10 | 7.2 NJ |
| Aroclor 1260 | 11096-82-5 | ug/kg | 6.8 | 8.2 | 200 J | 1.3 U | 6.5 | 9.9 | 8.9 J | 13 J | 1.7 J | 5.8 | 7.3 | 6.9 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.5 U | 1.5 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.6 U | 1.3 U | 1.6 U | 1.6 U | 1.4 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.5 U | 1.5 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.6 U | 1.3 U | 1.6 U | 1.6 U | 1.4 U |
| Aroclors | 12767-79-2 | ug/kg | 10.2 JT | 8.2 T | 200 JT | 8.3 UT | 12.2 JT | 19.2 T | 18.9 JT | 13 JT | 3.6 JT | 19.6 JT | 20.9 JT | 14.1 JT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 95.8 | 64.8 | 80.8 T | 50.3 | 83.7 | 90.1 | 71.8 | 104 | 29.9 | 96.2 | 109 | 95.8 T |
| Specific Gravity | SPEC_GRAV | NA | 1.5 | 1.35 | 1.49 T | 1.78 | 1.6 | 1.64 | 1.63 | 1.53 | 2.4 | 1.41 | 1.39 | 1.63 T |
| Sulfide | 18496-25-8 | mg/kg | 0.5 U | 4.8 T | 2.6 JT | 0.2 UJ | 5.8 J | 5.6 J | 6.1 J | 6 J | 0.2 UJ | 0.5 U | 0.5 U | 6.85 JT |
| Total organic carbon | TOC | percent | 1.37 | 1.9 | 1.95 T | 1.02 | 1.61 | 1.71 | 1.87 | 2.09 | 0.47 | 1.94 | 2 | 1.86 T |
| Total solids | TSO | percent | 49.7 | 43.3 | 44.2 T | 58.8 | 49.4 | 46.7 | 56 | 42.3 | 69.9 | 42.3 | 42.3 | 47.1 T |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.616 J | | | | | | | | | 0.393 J | 0.481 J | 0.0135 U |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 0.76 J | | | | | | | | | 0.329 J | 0.303 J | 0.0194 U |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 9.11 | | | | | | | | | 3.01 J | 2.31 J | 0.0311 U |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 65.2 | | | | | | | | | 19.9 | 21.5 | 3.67 |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 233 | | | | | | | | | 98.1 | 106 | 15 |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 1.14 | | | | | | | | | 0.457 J | 0.466 J | 0.0176 U |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 1.7 J | | | | | | | | | 0.927 J | 0.614 J | 0.198 J |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 4.12 | | | | | | | | | 2.38 J | 2.82 J | 0.168 J |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 9.06 | | | | | | | | | 5.14 | 7.13 | 0.81 J |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 10.2 | | | | | | | | | 6.4 J | 12.4 | 0.897 J |
| Total PCDD/F | TOTPCDD_F | pg/g | 335 JT | | | | | | | | | 137 JT | 154 JT | 20.7 JT |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.00456 U | | | | | | | | | 0.0282 U | 0.0104 U | 0.0135 U |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.112 J | | | | | | | | | 0.0414 U | 0.1 J | 0.0194 U |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.17 J | | | | | | | | | 0.0702 J | 0.0661 U | 0.0311 U |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 0.914 J | | | | | | | | | 0.324 J | 0.516 J | 0.0314 U |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 0.621 J | | | | | | | | | 0.282 J | 0.341 J | 0.0293 U |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 28.9 | | | | | | | | | 8.03 | 10.4 | 1.54 J |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.221 J | | | | | | | | | 0.306 J | 0.163 J | 0.0176 U |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.132 J | | | | | | | | | 0.201 J | 0.0187 U | 0.0169 U |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.105 J | | | | | | | | | 0.0945 U | 0.0236 U | 0.0185 U |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 0.284 J | | | | | | | | | 0.223 J | 0.197 J | 0.0164 U |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.175 J | | | | | | | | | 0.111 J | 0.142 J | 0.0169 U |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0166 U | | | | | | | | | 0.0552 U | 0.0532 U | 0.0213 U |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.184 J | | | | | | | | | 0.0879 U | 0.0465 U | 0.0181 U |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 2.42 J | | | | | | | | | 1.43 J | 1.93 J | 0.248 J |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.185 J | | | | | | | | | 0.121 J | 0.11 U | 0.0317 U |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 0.792 JT | | | | | | | | | 0.265 JT | 0.395 JT | 0.0226 JT |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.792 JA | | | | | 0.528 JA | | 0.37 JA | | 0.265 JA | 0.795 JT | 0.315 JT |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.18 | 0.05 | 0.47 T | 0.23 | 0.01 | 0 | 0.11 | 0.07 | 0.07 | 0.12 | 0.42 | 0.0267 T |
| Fine gravel | GS_FG | percent | 0.23 | 0.34 | 1.59 T | 0.18 | 0.24 | 0.41 | 0.29 | 0.65 | 0.13 | 0.72 | 0.94 | 0.527 T |
| Very coarse sand | GS_VCS | percent | 0.44 | 0.34 | 3.46 T | 0.27 | 0.85 | 0.86 | 0.49 | 1.17 | 0.52 | 0.67 | 1.06 | 0.733 T |
| Coarse sand | GS_CS | percent | 3.12 | 0.3 | 4.07 T | 0.92 | 0.79 | 0.34 | 0.49 | 0.43 | 8.77 | 0.64 | 0.82 | 0.41 T |
| Medium sand | GS_MS | percent | 20.2 | 0.76 | 2.72 T | 9.63 | 5.36 | 0.63 | 5.35 | 0.52 | 53.8 | 1.64 | 0.74 | 0.58 T |
| Fine sand | GS_FS | percent | 12.1 | 5.03 | 4.85 T | 6.02 | 17.6 | 7.36 | 22.3 | 2.6 | 22.5 | 6.02 | 3.41 | 6.01 T |
| Very fine sand | GS_VFS | percent | 14 | 17.6 | 15 T | 6.44 | 21.1 | 25 | 19.3 | 14 | 7.24 | 17.9 | 19.2 | 21.8 T |
| Fines | GS_FINES | percent | 55.4 T | 77.2 T | 66.1 JT | 79.9 T | 55.1 T | 69.9 T | 54.4 T | 78.8 T | 11.7 T | 82.8 T | 76.7 T | 66.7 T |
| Coarse silt | GS_CSILT | percent | 16.4 | 63.3 | 28.4 JT | 12.4 | 23.7 | 35.8 | 16.7 | 43.3 | 2.5 | 30.5 | 31.2 | 34.1 T |
| Medium silt | GS_MSILT | percent | 13.3 | 3.08 | 13.6 T | 23.2 | 10.4 | 12.3 | 10.9 | 14.5 | 2.68 | 19.7 | 18.8 | 12.5 T |
| Fine silt | GS_FSILT | percent | 9.09 | 4.07 | 9.21 T | 19.3 | 6.81 | 7.82 | 8.55 | 7.68 | 2.16 | 11.9 | 11 | 7.07 T |
| Very fine silt | GS_VFSILT | percent | 5.68 | 3.01 | 6.25 T | 9.97 | 5.95 | 5.21 | 6.41 | 6.96 | 1.89 | 7.13 | 5.96 | 6.28 T |
| 8-9 Phi clay | GS_CCLAY | percent | 4.44 | 1 | 3.72 T | 5.9 | 3.83 | 3.89 | 5.38 | 2.63 | 1.16 | 4.93 | 3.6 | 3.17 T |
| >9 Phi clay | GS_MFCLAY | percent | 6.45 | 2.69 | 4.95 JT | 9.08 | 4.36 | 4.87 | 6.5 | 3.77 | 1.28 | 8.65 | 6.1 | 3.61 T |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G612-2 | LW3-G613 | LW3-G614 | LW3-G616 | LW3-G617 | LW3-G618 | LW3-G619 | LW3-G620 | LW3-G621 | LW3-G622 | LW3-G623 | LW3-G624 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 21 | 0 - 28 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 22900 | 27100 T | 33900 T | 23200 | 28600 | 25700 | 26700 | 29200 | 15300 | 29100 | 34400 | 29600 T |
| Antimony | 7440-36-0 | mg/kg | 0.12 J | 1 JT | 0.425 JT | 0.31 J | 0.42 J | 0.44 J | 0.46 J | 0.45 J | 0.27 J | 0.14 J | 0.11 J | 0.415 JT |
| Arsenic | 7440-38-2 | mg/kg | 3.47 | 3.52 T | 3.86 T | 2.54 | 3.75 | 3.46 | 4.18 | 4.43 | 2.77 | 3.96 | 3.77 | 3.78 T |
| Cadmium | 7440-43-9 | mg/kg | 0.286 J | 0.322 T | 0.229 JT | 0.114 J | 0.22 J | 0.267 J | 0.301 J | 0.231 J | 0.071 J | 0.331 J | 0.21 J | 0.182 JT |
| Chromium | 7440-47-3 | mg/kg | 21.9 | 27.5 T | 31.3 JT | 21.4 | 29.6 | 28.9 | 24.1 | 35.1 | 15.7 | 26.9 | 29.8 | 32.1 T |
| Copper | 7440-50-8 | mg/kg | 29.7 | 39.4 T | 37.3 T | 25.9 | 32.8 | 36.5 J | 31.9 | 44.4 | 18 | 36.3 | 38.7 | 38.4 T |
| Lead | 7439-92-1 | mg/kg | 12 | 15.2 T | 11 T | 5.2 | 11 | 13 | 18 | 12 | 5.2 | 14 | 11 | 10.5 T |
| Mercury | 7439-97-6 | mg/kg | 0.057 | 0.067 | 0.0725 T | 0.039 | 0.09 | 0.068 | 0.111 | 0.062 | 0.024 | 0.057 | 0.056 | 0.055 T |
| Nickel | 7440-02-0 | mg/kg | 18.9 | 23.6 JT | 22.6 T | 19.2 | 22.2 | 22.4 | 21.1 | 26.6 | 15.4 | 22.4 | 22.6 | 24 T |
| Silver | 7440-22-4 | mg/kg | 0.17 | 0.29 T | 0.21 T | 0.11 | 0.21 | 0.2 | 0.37 | 0.21 | 0.08 | 0.21 | 0.19 | 0.185 T |
| Zinc | 7440-66-6 | mg/kg | 116 | 116 T | 104 T | 63.4 | 101 | 94.2 | 104 | 94 | 65.2 | 146 | 118 | 91.6 T |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 5 | 1.6 J | 2.7 J | 1.1 J | 19 | 5.2 | 130 | 1.8 J | 5.5 | 5.3 | 2.3 J | 2.2 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 13 | 3.2 | 4.9 | 1.9 J | 29 | 11 | 350 | 2.9 J | 7.3 | 9 | 3.5 | 3.7 |
| Acenaphthene | 83-32-9 | ug/kg | 12 | 3.5 | 5.3 | 3 | 56 | 8.2 | 900 | 3.2 | 15 | 14 | 5.6 | 5.8 |
| Acenaphthylene | 208-96-8 | ug/kg | 8 | 3.3 | 4.7 | 4.1 | 24 | 6.8 | 300 | 4.6 | 19 | 11 | 6.4 | 6.8 |
| Anthracene | 120-12-7 | ug/kg | 25 | 9.1 | 13 | 13 | 110 | 18 | 580 | 9.6 | 22 | 28 | 12 | 18 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 79 | 34 | 38 | 20 | 270 | 56 | 2500 | 39 | 140 | 79 | 39 | 59 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 100 | 46 | 55 | 37 | 380 | 89 | 3600 | 53 | 210 | 120 | 60 | 77 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 120 | 55 | 59 | 34 | 340 | 91 | 3200 | 58 | 210 | 120 | 62 | 80 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 75 | 37 | 40 | 24 | 240 | 60 | 2200 | 37 | 140 | 86 | 43 | 53 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 81 | 43 | 49 | 34 | 300 | 77 | 3200 | 47 | 180 | 110 | 53 | 71 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 36 | 16 | 17 | 11 | 110 | 30 | 1100 | 17 | 61 | 34 | 20 | 23 |
| Chrysene | 218-01-9 | ug/kg | 110 | 43 | 53 | 38 | 320 | 80 | 3200 | 52 | 160 | 110 | 52 | 74 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 12 | 6.1 | 6.7 | 4 | 38 | 11 | 330 | 6 | 21 | 12 | 6.6 | 8.4 |
| Dibenzothiophene | 132-65-0 | ug/kg | 6 | 2 J | 3.6 | 1.8 J | 30 | 4.5 | 980 | 2.2 J | 8.7 | 9.7 | 3.5 | 4 |
| Fluoranthene | 206-44-0 | ug/kg | 180 | 61 | 79 | 37 | 480 | 100 | 8000 | 78 | 210 | 180 | 92 | 97 |
| Fluorene | 86-73-7 | ug/kg | 11 | 3.3 | 4.6 | 2.6 | 32 | 6.1 | 720 | 3.1 | 8.5 | 12 | 5 | 4.3 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 78 | 42 | 44 | 28 | 280 | 74 | 2900 | 44 | 170 | 93 | 48 | 62 |
| Naphthalene | 91-20-3 | ug/kg | 24 | 9.7 | 14 | 5.9 | 65 | 32 | 980 | 20 | 20 | 28 | 13 | 12 |
| Perylene | 198-55-0 | ug/kg | 49 | 23 | 28 | 150 | 120 | 35 | 980 | 22 | 61 | 51 | 26 | 26 |
| Phenanthrene | 85-01-8 | ug/kg | 86 | 26 | 36 | 17 | 320 | 46 | 8400 | 26 | 91 | 99 | 36 | 43 |
| Pyrene | 129-00-0 | ug/kg | 170 | 74 | 130 | 50 | 590 | 130 | 10000 | 88 | 270 | 220 | 99 | 110 |
| High Molecular Weight PAH | HPAH | ug/kg | 970 T | 420 T | 530 T | 290 T | 3100 T | 740 T | 38000 T | 480 T | 1600 T | 1100 T | 530 T | 660 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 180 T | 58 T | 83 T | 48 JT | 640 T | 130 T | 12000 T | 69 JT | 180 T | 200 T | 82 T | 94 T |
| Total PAHs | 130498-29-2 | ug/kg | 1100 T | 480 T | 610 T | 340 JT | 3700 T | 870 T | 50000 T | 550 JT | 1800 T | 1300 T | 610 T | 760 T |
| C1-Chrysene | C1_218-01-9 | ug/kg | 61 | 22 | 37 | 17 | 220 | 40 | 1100 | 35 | 79 | 75 | 37 | 45 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 5.1 | 1.8 J | 3.5 | 1.3 J | 12 | 2.2 J | 240 | 2.6 J | 4.7 | 7.1 | 2.5 J | 3.2 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 220 | 34 | 41 | 22 | 290 | 55 | 2600 | 41 | 120 | 95 | 45 | 52 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 8.7 | 2.4 J | 3.3 | 1.8 J | 27 | 4 | 380 | 2.7 J | 6.4 | 11 | 5 | 4.1 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 36 | 17 | 25 | 12 | 210 | 27 | 2800 | 23 | 59 | 44 | 20 | 25 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 34 | 11 | 22 | 11 | 130 | 22 | 530 | 20 | 37 | 43 | 24 | 27 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 12 | 5.3 | 9.3 | 3.6 | 42 | 9.1 | 650 | 7.3 | 14 | 15 | 8.8 | 8.6 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 48 | 19 | 26 | 14 | 140 | 30 | 990 | 26 | 48 | 61 | 29 | 32 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 12 | 4.9 | 8.1 | 3.3 | 35 | 5.7 | 590 | 6 | 11 | 17 | 8.1 | 5.6 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 16 | 3.9 | 6.5 | 2.5 J | 42 | 6.8 | 640 | 3.8 | 9.4 | 19 | 7.6 | 4.8 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 48 | 12 | 17 | 10 | 160 | 18 | 1500 | 18 | 44 | 58 | 39 | 36 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 29 | 12 | 16 | 8.2 | 73 | 15 | 280 | 14 | 21 | 30 | 18 | 18 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 18 | 4.4 | 9.1 | 3 | 29 | 8 | 520 | 6 | 12 | 24 | 8.1 | 8 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 37 | 11 | 16 | 8.3 | 77 | 15 | 470 | 14 | 25 | 32 | 17 | 21 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 19 | 7 | 12 | 5.5 | 51 | 8.5 | 810 | 9.3 | 17 | 18 | 9.3 | 11 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 9.3 | 3.4 | 6.3 | 2.3 J | 28 | 5.1 | 1100 | 3.9 | 10 | 12 | 5.6 | 4.1 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 31 | 13 | 24 | 11 | 140 | 19 | 1100 | 18 | 31 | 70 | 32 | 35 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 5.4 | 0.25 U | 0.25 U | 0.25 U | 33 | 6.3 | 170 | 0.25 U | 9 | 14 | 4.7 | 6.1 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 10 | 3.2 | 6.2 | 3.1 | 27 | 5 | 700 | 4.9 | 9 | 13 | 7.1 | 5.1 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 20 | 6.6 | 9.8 | 4.8 | 42 | 10 | 350 | 10 | 13 | 18 | 9.5 | 12 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | 8.32 T | | 5.94 | | | 5.36 | 7.23 |
| PCB002 | 2051-61-8 | pg/g | | | | | | 16.2 T | | 11.4 | | | 12.9 | 10.7 |
| PCB003 | 2051-62-9 | pg/g | | | | | | 8.46 T | | 6.64 | | | 6.64 | 6.33 |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | 47.8 T | | 29.6 | | | 29.7 UJ | 23.7 |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | 114 T | | 74 | | | 43.9 | 50.7 |
| PCB006 | 25569-80-6 | pg/g | | | | | | 24 T | | 18.2 | | | 10 U | 11.2 |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | 11.5 T | | 6.83 J | | | 10 U | 9.64 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G612-2 | LW3-G613 | LW3-G614 | LW3-G616 | LW3-G617 | LW3-G618 | LW3-G619 | LW3-G620 | LW3-G621 | LW3-G622 | LW3-G623 | LW3-G624 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 21 | 0 - 28 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | 152 T | | 204 | | | 192 | 165 |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | 14 T | | 11.2 | | | 10 U | 9.64 U |
| PCB014 | 34883-41-5 | pg/g | | | | | | 9.78 UT | | 9.92 U | | | 10 U | 9.64 U |
| PCB015 | 2050-68-2 | pg/g | | | | | | 112 T | | 80.1 | | | 55.3 | 53.5 |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | 106 T | | 71.6 | | | 51.1 | 47.4 |
| PCB017 | 37680-66-3 | pg/g | | | | | | 75.6 T | | 51 | | | 45.3 | 37.7 |
| PCB018 | 37680-65-2 | pg/g | | | | | | 155 T | | 108 | | | 70.6 | 67.3 |
| PCB019 | 38444-73-4 | pg/g | | | | | | 50.7 T | | 33.5 | | | 73.5 | 34.4 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | 190 T | | 118 | | | 77.9 | 75.9 |
| PCB022 | 38444-85-8 | pg/g | | | | | | 112 T | | 73.6 | | | 50.3 | 46.3 |
| PCB023 | 55720-44-0 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | 18.6 T | | 12.2 | | | 13.6 | 9.67 |
| PCB025 | 55712-37-3 | pg/g | | | | | | 34.5 T | | 25.4 | | | 19.1 | 18.2 |
| PCB026 | 38444-81-4 | pg/g | | | | | | 55.3 T | | 43 | | | 29.8 | 28 |
| PCB028 | 7012-37-5 | pg/g | | | | | | 344 T | | 220 | | | 153 | 150 |
| PCB029 | 15862-07-4 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB030 | 35693-92-6 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB031 | 16606-02-3 | pg/g | | | | | | 261 T | | 193 | | | 129 | 121 |
| PCB034 | 37680-68-5 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB035 | 37680-69-6 | pg/g | | | | | | 7.45 T | | 6.06 | | | 5.14 | 5.01 |
| PCB036 | 38444-87-0 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB037 | 38444-90-5 | pg/g | | | | | | 128 T | | 85.7 | | | 58.8 | 57.6 |
| PCB038 | 53555-66-1 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB039 | 38444-88-1 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB040 | 38444-93-8 | pg/g | | | | | | 42.3 T | | 31.4 | | | 27.5 | 24 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | 232 T | | 185 | | | 125 | 137 |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | 84.8 T | | 63.3 | | | 49.3 | 45.9 |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | 271 T | | 195 | | | 162 | 152 |
| PCB044 | 41464-39-5 | pg/g | | | | | | 285 T | | 196 | | | 162 | 143 |
| PCB045 | 70362-45-7 | pg/g | | | | | | 35.3 T | | 24.4 | | | 19.9 | 16.2 |
| PCB046 | 41464-47-5 | pg/g | | | | | | 17.3 T | | 11.9 | | | 10.9 | 9.04 |
| PCB047 | 2437-79-8 | pg/g | | | | | | 159 T | | 114 | | | 123 | 107 |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | 55.3 T | | 42.6 | | | 25 | 27.8 |
| PCB050 | 62796-65-0 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB051 | 68194-04-7 | pg/g | | | | | | 45.4 T | | 33 | | | 30.5 | 31.3 |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | 372 T | | 238 | | | 204 | 192 |
| PCB053 | 41464-41-9 | pg/g | | | | | | 65.8 T | | 47.1 | | | 45.1 | 41.9 |
| PCB054 | 15968-05-5 | pg/g | | | | | | 12.9 T | | 9.1 | | | 13.6 | 10 |
| PCB055 | 74338-24-2 | pg/g | | | | | | 5.69 T | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | 155 T | | 123 | | | 90.9 | 92.4 |
| PCB057 | 70424-67-8 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB058 | 41464-49-7 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | 352 T | | 257 | | | 199 | 205 |
| PCB062 | 54230-22-7 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB063 | 74472-34-7 | pg/g | | | | | | 10.9 T | | 8.02 | | | 6.99 | 6.38 |
| PCB065 | 33284-54-7 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | 259 T | | 207 | | | 163 | 167 |
| PCB067 | 73575-53-8 | pg/g | | | | | | 10.1 T | | 7.26 | | | 5.72 | 5.93 |
| PCB068 | 73575-52-7 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB073 | 74338-23-1 | pg/g | | | | | | 5.14 T | | 4.96 U | | | 7.14 | 4.82 U |
| PCB074 | 32690-93-0 | pg/g | | | | | | 130 T | | 95.8 | | | 72 | 75.3 |
| PCB077 | 32598-13-3 | pg/g | | | | | | 31.6 T | | 26.5 | | | 21.6 | 21.2 |
| PCB078 | 70362-49-1 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB079 | 41464-48-6 | pg/g | | | | | | 6.81 T | | 5.42 | | | 5.02 U | 4.82 U |
| PCB080 | 33284-52-5 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB081 | 70362-50-4 | pg/g | | | | | | 2.21 JT | | 1.16 J | | | 1.76 U | 0.775 J |
| PCB082 | 52663-62-4 | pg/g | | | | | | 76 JT | | 41.1 | | | 43.3 | 31.6 |
| PCB083 | 60145-20-2 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | 285 JT | | 152 | | | 141 | 131 |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | 97 T | | 63.7 | | | 56.4 | 51.6 |
| PCB086 | 55312-69-1 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | 238 JT | | 125 | | | 109 | 99.9 |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | 104 T | | 71.6 | | | 62.7 | 60.4 |
| PCB089 | 73575-57-2 | pg/g | | | | | | 6.01 T | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | 711 JT | | 425 | | | 383 | 355 |
| PCB093 | 73575-56-1 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G612-2 | LW3-G613 | LW3-G614 | LW3-G616 | LW3-G617 | LW3-G618 | LW3-G619 | LW3-G620 | LW3-G621 | LW3-G622 | LW3-G623 | LW3-G624 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 21 | 0 - 28 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | 9.33 T | | 5.74 | | | 5.45 | 5.85 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | 521 JT | | 304 | | | 269 | 264 |
| PCB096 | 73575-54-9 | pg/g | | | | | | 8.51 T | | 6.34 | | | 5.02 U | 6.11 |
| PCB097 | 41464-51-1 | pg/g | | | | | | 179 JT | | 103 | | | 97.3 | 81.6 |
| PCB099 | 38380-01-7 | pg/g | | | | | | 290 T | | 189 | | | 182 | 162 |
| PCB100 | 39485-83-1 | pg/g | | | | | | 23.6 T | | 19.6 | | | 15.3 | 19.9 |
| PCB103 | 60145-21-3 | pg/g | | | | | | 15.5 T | | 11.9 | | | 11.1 | 12.5 |
| PCB104 | 56558-16-8 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB105 | 32598-14-4 | pg/g | | | | | | 224 JT | | 128 | | | 131 | 99.9 |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | 590 JT | | 348 | | | 325 | 277 |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | 46.1 T | | 29.2 | | | 24.7 | 23.5 |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | 31.5 T | | 17.6 | | | 16 | 15.1 |
| PCB110 | 38380-03-9 | pg/g | | | | | | 746 JT | | 462 | | | 422 | 380 |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | 9.93 T | | 7.89 | | | 5.02 U | 5.05 |
| PCB113 | 68194-10-5 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB114 | 74472-37-0 | pg/g | | | | | | 12.9 T | | 6.96 | | | 6.73 | 5.61 |
| PCB119 | 56558-17-9 | pg/g | | | | | | 20.7 T | | 14.5 | | | 14.2 | 13.7 |
| PCB120 | 68194-12-7 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB121 | 56558-18-0 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB122 | 76842-07-4 | pg/g | | | | | | 7.05 T | | 4.96 U | | | 5.08 | 4.82 U |
| PCB123 | 65510-44-3 | pg/g | | | | | | 9.94 T | | 6.68 | | | 6.53 | 5.12 |
| PCB124 | 70424-70-3 | pg/g | | | | | | 26.9 JT | | 14.8 | | | 16.1 | 11.5 |
| PCB126 | 57465-28-8 | pg/g | | | | | | 4.94 JT | | 3.5 J | | | 3.81 J | 2.76 J |
| PCB127 | 39635-33-1 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | 138 JT | | 75.2 | | | 71.1 | 63.9 |
| PCB129 | 55215-18-4 | pg/g | | | | | | 41.6 JT | | 19.5 | | | 18.1 | 15.8 |
| PCB130 | 52663-66-8 | pg/g | | | | | | 63.4 T | | 32.9 | | | 31.6 | 27.6 |
| PCB131 | 61798-70-7 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | 259 JT | | 142 | | | 133 | 127 |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | 31.5 T | | 25.3 | | | 19.4 | 16.5 |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | 52 JT | | 26.1 | | | 25.6 | 24.5 |
| PCB135 | 52744-13-5 | pg/g | | | | | | 112 T | | 95.2 | | | 77 | 87.1 |
| PCB136 | 38411-22-2 | pg/g | | | | | | 112 T | | 83.7 | | | 74.3 | 81.2 |
| PCB137 | 35694-06-5 | pg/g | | | | | | 37.7 JT | | 19.8 | | | 26.2 | 16.7 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | 956 T | | 597 | | | 521 | 521 |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | 644 T | | 557 | | | 416 | 523 |
| PCB140 | 59291-64-4 | pg/g | | | | | | 6.74 T | | 8.42 | | | 5.02 U | 5.72 |
| PCB141 | 52712-04-6 | pg/g | | | | | | 177 T | | 106 | | | 115 | 94.5 |
| PCB144 | 68194-14-9 | pg/g | | | | | | 36.8 T | | 27.3 | | | 21.9 | 25.6 |
| PCB145 | 74472-40-5 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | 157 T | | 131 | | | 95.6 | 94.2 |
| PCB147 | 68194-13-8 | pg/g | | | | | | 30.5 T | | 23.5 | | | 19 | 23.5 |
| PCB148 | 74472-41-6 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB150 | 68194-08-1 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB151 | 52663-63-5 | pg/g | | | | | | 195 T | | 168 | | | 146 | 162 |
| PCB152 | 68194-09-2 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB153 | 35065-27-1 | pg/g | | | | | | 926 T | | 614 | | | 623 | 548 |
| PCB154 | 60145-22-4 | pg/g | | | | | | 20 T | | 23 | | | 15.5 | 18.1 |
| PCB155 | 33979-03-2 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB156 | 38380-08-4 | pg/g | | | | | | 97.8 JT | | 49.6 | | | 48.2 | 40.4 |
| PCB157 | 69782-90-7 | pg/g | | | | | | 18.8 JT | | 10.5 | | | 9.76 | 8.47 |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | 102 JT | | 58.2 | | | 53.5 | 49.5 |
| PCB159 | 39635-35-3 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB166 | 41411-63-6 | pg/g | | | | | | 5.12 T | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB167 | 52663-72-6 | pg/g | | | | | | 38.9 JT | | 20.6 | | | 20.9 | 18.4 |
| PCB168 | 59291-65-5 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB169 | 32774-16-6 | pg/g | | | | | | 0.966 UT | | 0.937 U | | | 1.57 U | 0.8 U |
| PCB170 | 35065-30-6 | pg/g | | | | | | 280 T | | 197 | | | 197 | 170 |
| PCB171 | 52663-71-5 | pg/g | | | | | | 73.6 T | | 55 | | | 47.9 | 48.2 |
| PCB172 | 52663-74-8 | pg/g | | | | | | 46.4 T | | 34.5 | | | 31.3 | 30.3 |
| PCB173 | 68194-16-1 | pg/g | | | | | | 7.75 T | | 5.2 | | | 5.02 U | 4.82 U |
| PCB174 | 38411-25-5 | pg/g | | | | | | 312 T | | 232 | | | 215 | 210 |
| PCB175 | 40186-70-7 | pg/g | | | | | | 13.5 T | | 9.93 | | | 9.42 | 8.84 |
| PCB176 | 52663-65-7 | pg/g | | | | | | 39 T | | 31.7 | | | 26.3 | 26.2 |
| PCB177 | 52663-70-4 | pg/g | | | | | | 177 T | | 157 | | | 132 | 125 |
| PCB178 | 52663-67-9 | pg/g | | | | | | 67.2 T | | 63.5 | | | 51.9 | 47.5 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G612-2 | LW3-G613 | LW3-G614 | LW3-G616 | LW3-G617 | LW3-G618 | LW3-G619 | LW3-G620 | LW3-G621 | LW3-G622 | LW3-G623 | LW3-G624 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 21 | 0 - 28 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | 141 T | | 115 | | | 110 | 99.1 |
| PCB180 | 35065-29-3 | pg/g | | | | | | 698 T | | 488 | | | 485 | 427 |
| PCB181 | 74472-47-2 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | 400 T | | 343 | | | 319 | 280 |
| PCB183 | 52663-69-1 | pg/g | | | | | | 169 T | | 123 | | | 130 | 113 |
| PCB184 | 74472-48-3 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB185 | 52712-05-7 | pg/g | | | | | | 32.6 T | | 26.7 | | | 24.3 | 24 |
| PCB186 | 74472-49-4 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB188 | 74487-85-7 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB189 | 39635-31-9 | pg/g | | | | | | 11.7 T | | 7.6 | | | 6.38 | 6.67 |
| PCB190 | 41411-64-7 | pg/g | | | | | | 58.3 T | | 44.9 | | | 41.2 | 37 |
| PCB191 | 74472-50-7 | pg/g | | | | | | 11.5 T | | 6.99 | | | 5.97 | 6.71 |
| PCB192 | 74472-51-8 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB193 | 69782-91-8 | pg/g | | | | | | 34 T | | 28.9 | | | 23.8 | 24.9 |
| PCB194 | 35694-08-7 | pg/g | | | | | | 223 JT | | 119 | | | 132 | 103 |
| PCB195 | 52663-78-2 | pg/g | | | | | | 77.8 T | | 48.9 | | | 54.7 | 46 |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | 264 JT | | 134 | | | 171 | 125 |
| PCB197 | 33091-17-7 | pg/g | | | | | | 7.04 T | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB198 | 68194-17-2 | pg/g | | | | | | 11.5 T | | 6.51 | | | 10.8 | 6.74 |
| PCB199 | 52663-75-9 | pg/g | | | | | | 247 JT | | 128 | | | 171 | 115 |
| PCB200 | 52663-73-7 | pg/g | | | | | | 29 T | | 16 | | | 17.8 | 13.8 |
| PCB201 | 40186-71-8 | pg/g | | | | | | 25.1 T | | 16.5 | | | 21 | 14.3 |
| PCB202 | 2136-99-4 | pg/g | | | | | | 41.9 T | | 28.6 | | | 35.3 | 24.8 |
| PCB204 | 74472-52-9 | pg/g | | | | | | 4.89 UT | | 4.96 U | | | 5.02 U | 4.82 U |
| PCB205 | 74472-53-0 | pg/g | | | | | | 8.74 JT | | 5.43 | | | 6.27 | 4.87 |
| PCB206 | 40186-72-9 | pg/g | | | | | | 170 JT | | 95.3 | | | 144 | 69.1 |
| PCB207 | 52663-79-3 | pg/g | | | | | | 16.9 JT | | 9.57 | | | 14 | 7.95 |
| PCB208 | 52663-77-1 | pg/g | | | | | | 43.4 T | | 31.1 | | | 43.3 | 21.8 |
| PCB209 | 2051-24-3 | pg/g | | | | | | 106 T | | 123 | | | 114 | 61.7 |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | 17100 JT | | 11600 JT | | | 10400 JT | 9550 JT |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | 0.528 JT | | 0.37 JT | | | 0.4 JT | 0.292 JT |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | 33 T | | 24 T | | | 24.9 T | 24.3 T |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | 475 T | | 424 JT | | | 291 T | 304 T |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | 1540 T | | 1040 T | | | 777 T | 698 T |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | 2650 JT | | 1920 JT | | | 1560 T | 1510 JT |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | 4290 JT | | 2560 JT | | | 2350 JT | 2120 JT |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | 4260 JT | | 2910 T | | | 2580 T | 2590 T |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | 2570 T | | 1970 T | | | 1860 T | 1680 T |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | 935 JT | | 503 T | | | 620 T | 454 T |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | 230 JT | | 136 T | | | 201 T | 98.9 T |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.75 J | 0.38 U | 3.7 | 0.16 U | 0.69 U | 0.52 U | 0.71 U | 0.63 NJ | 0.3 | 0.87 J | 1.9 U | 0.17 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.2 U | 0.23 U | 0.61 U | 0.046 U | 0.21 U | 0.22 U | 0.24 U | 0.23 U | 0.085 J | 0.24 U | 0.24 U | 0.22 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.54 | 1 | 2.7 U | 0.13 U | 0.6 U | 1.1 U | 1.3 J | 1 NJ | 0.2 U | 0.92 | 0.85 | 0.49 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 1.2 J | 1.1 | 1.1 | 0.39 | 1.9 | 1.4 | 1.9 U | 1.3 | 0.74 | 2.2 | 1.5 | 1.3 |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.5 | 1.5 | 2.5 J | 0.3 | 1.7 | 1.7 | 0.2 U | 2 | 0.4 | 2.1 | 1.8 | 1.6 |
| 4,4'-DDT | 50-29-3 | ug/kg | 2.4 J | 1.6 NJ | 19 J | 0.7 NJ | 0.89 U | 0.74 U | 0.33 U | 2.4 | 0.27 U | 3.2 | 1.6 | 1.9 |
| Aldrin | 309-00-2 | ug/kg | R | 0.31 U | 0.75 J | 0.12 U | 0.18 U | 0.68 J | 0.12 U | 0.47 U | 0.24 J | 0.33 U | 0.44 U | 0.49 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.044 NJ | 0.18 J | 0.24 J | 0.037 U | 0.087 J | 0.19 J | 0.74 U | 0.24 U | 0.037 U | 0.14 J | 0.13 J | 0.16 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.12 U | 0.11 U | 0.097 U | 0.098 U | 0.11 U | 0.2 U | 0.12 U | 0.097 U | 0.12 U | 0.12 U | 0.11 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.11 U | 0.5 U | 0.031 U | 0.14 U | 0.16 U | 0.33 U | 0.18 U | 0.031 U | 0.08 U | 1.3 | 0.12 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.24 U | 0.17 U | 0.16 U | 0.21 U | 0.21 J | 0.16 U | 2.7 U | 0.17 U | 0.14 U | 0.27 U | 0.28 | 0.15 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.081 U | 0.035 U | 0.031 U | 0.21 U | 0.22 U | 0.16 U | 0.24 U | 0.031 U | 0.037 U | 0.1 U | 0.069 J |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.52 U | 0.45 U | 11 U | 0.25 NJ | 0.46 U | 0.81 U | 0.65 U | 0.77 U | 0.19 U | 0.73 U | 0.68 U | 0.58 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.13 U | 0.13 U | 0.12 J | 0.12 U | 0.12 U | 0.92 U | 0.13 U | 0.11 U | 0.17 U | 0.13 U | 0.12 U |
| Dieldrin | 60-57-1 | ug/kg | 0.15 J | 0.26 U | 0.48 | 0.22 J | 0.4 | 0.22 U | 0.03 U | 0.036 U | 0.13 U | 0.036 U | 0.57 U | 0.032 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.2 U | 0.23 U | 0.23 U | 0.2 U | 0.21 U | 0.22 U | 0.34 U | 0.24 U | 0.058 U | 0.24 U | 0.31 U | 0.22 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.23 U | 1.9 U | 0.071 U | 0.072 U | 0.076 U | 0.32 U | 0.24 U | 0.071 U | 0.084 U | 0.084 U | 0.075 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 0.23 U | 2.3 U | 0.042 U | 0.24 U | 0.045 U | 2.5 U | 0.05 U | 0.064 U | 0.05 U | 0.05 U | 0.045 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.19 U | 0.23 U | 3.3 U | 0.029 U | 0.19 U | 0.38 U | 0.96 U | 0.32 U | 0.092 J | 0.22 U | 0.27 U | 0.38 J |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.2 U | 0.23 U | 0.25 U | 0.062 U | 0.21 U | 0.22 U | 0.96 U | 0.24 U | 0.086 U | 0.24 U | 0.24 U | 0.22 U |
| Heptachlor | 76-44-8 | ug/kg | 0.2 U | 0.23 U | 0.26 U | 0.076 U | 0.21 U | 0.22 U | 0.56 U | 0.089 U | 0.076 U | 0.09 U | 0.09 U | 0.081 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.16 U | 0.23 U | 0.27 U | 0.16 NJ | 0.18 NJ | 0.24 U | 0.068 U | 0.46 U | 0.13 U | 0.24 U | 0.24 U | 0.22 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.6 U | 0.55 U | 1.6 U | 0.2 U | 0.35 U | 0.26 U | 0.67 U | 0.64 U | 0.17 U | 0.6 U | 0.56 U | 0.28 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G612-2 | LW3-G613 | LW3-G614 | LW3-G616 | LW3-G617 | LW3-G618 | LW3-G619 | LW3-G620 | LW3-G621 | LW3-G622 | LW3-G623 | LW3-G624 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 21 | 0 - 28 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.14 U | 0.14 U | 0.12 U | 0.13 U | 0.13 U | 0.2 U | 0.15 U | 0.12 U | 0.15 U | 0.15 U | 0.13 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.21 U | 0.24 U | 0.24 U | 0.061 U | 0.21 U | 0.32 U | 0.34 U | 0.3 U | 0.11 U | 0.3 U | 0.28 U | 0.27 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.1 JT | 0.33 T | 11 UT | 0.31 JT | 0.49 JT | 0.59 JT | 0.65 UT | 0.52 JT | 0.11 JT | 0.68 JT | 0.48 T | 0.64 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.044 JT | 0.18 JT | 0.24 JT | 0.2 UT | 0.087 JT | 0.19 JT | 0.74 UT | 0.24 UT | 0.058 UT | 0.14 JT | 1.4 JT | 0.16 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 2 JT | 1.1 T | 4.8 T | 0.39 T | 1.9 T | 1.4 T | 1.9 UT | 1.9 JT | 1 T | 3.1 JT | 1.5 T | 1.3 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 6.4 JT | 5.2 JT | 26 JT | 1.4 JT | 3.6 T | 3.1 T | 1.3 JT | 7.3 JT | 1.5 JT | 9.3 JT | 5.8 T | 4.8 T |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.5 T | 1.5 T | 2.5 JT | 0.3 T | 1.7 T | 1.7 T | 0.24 UT | 2 T | 0.49 JT | 2.1 T | 1.8 T | 1.6 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 2.9 JT | 2.6 JT | 19 JT | 0.7 JT | 0.89 UT | 1.1 UT | 1.3 JT | 3.4 JT | 0.27 UT | 4.1 T | 2.5 T | 1.9 T |
| Toxaphene | 8001-35-2 | ug/kg | 13 U | 46 U | 90 U | 9.4 U | 48 NJ | 31 U | 110 U | 32 U | 14 U | 17 U | 31 U | 25 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.1 NJ | 0.33 | 0.57 U | 0.057 NJ | 0.36 | 0.46 | 0.53 U | 0.36 J | 0.11 J | 0.38 | 0.48 | 0.39 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.039 U | 0.12 U | 0.096 U | 0.034 U | 0.13 J | 0.13 J | 0.51 U | 0.16 J | 0.034 U | 0.3 NJ | 0.12 U | 0.18 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 60 J | 62 J | 71.7 JT | 13 J | 71 J | 62 J | 570 J | 64 J | 18 J | 85 J | 65 J | 61.2 JT |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 45 J | 50 J | 44 JT | 6.9 U | 48 J | 49 J | 370 J | 42 J | 10 J | 62 J | 40 J | 38.5 JT |
| Residual Range Hydrocarbons | RRH | mg/kg | 270 J | 370 J | 455 JT | 90 J | 400 J | 380 J | 940 J | 430 J | 79 J | 440 J | 460 J | 402 JT |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 160 J | 200 J | 175 JT | 28 J | 170 J | 200 J | 520 J | 170 J | 31 J | 240 J | 180 J | 155 JT |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 330 JA | 432 JA | 527 JA | 103 JA | 471 JA | 442 JA | 1510 JA | 494 JA | 97 JA | 525 JA | 525 JA | 463 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 205 JA | 250 JA | 219 JA | 28 JA | 218 JA | 249 JA | 890 JA | 212 JA | 41 JA | 302 JA | 220 JA | 194 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.43 U | 0.49 U | 0.48 U | 0.36 U | 0.43 U | 0.45 U | 0.37 U | 0.5 U | 0.3 U | 1.3 U | 0.49 U | 0.44 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.35 U | 0.4 U | 0.39 U | 0.29 U | 0.35 U | 0.65 J | 0.3 U | 0.4 U | 0.25 U | 0.4 U | 0.4 U | 0.36 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.2 U | 1.3 U | 1.3 U | 0.93 U | 1.2 U | 1.2 U | 0.97 U | 1.3 U | 0.79 U | 1.3 U | 1.3 U | 1.2 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.23 U | 0.26 U | 0.25 U | 0.28 J | 0.23 U | 0.24 U | 0.2 U | 0.26 U | 0.16 U | 0.26 U | 0.26 U | 0.24 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.1 U | 1.2 U | 5.7 U | 1 U | 5.1 U | 1.1 U | 10 U | 1.2 U | 1 U | 1.2 U | 1.2 U | 1.1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.6 U | 6.3 UJ | 32 U | 5.5 U | 28 U | 5.9 U | 55 U | 6.5 U | 5.5 U | 6.5 U | 6.5 U | 5.8 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 18 U | 20 U | 96 U | 17 U | 86 U | 19 U | 170 U | 21 U | 17 U | 20 U | 21 U | 18 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.1 U | 2.3 U | 12 U | 2 U | 11 U | 2.2 U | 20 U | 2.4 U | 2 U | 2.4 U | 2.4 U | 2.2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.6 U | 1.8 U | 8.5 U | 1.5 U | 7.6 U | 1.7 U | 15 U | 1.8 U | 1.5 U | 1.8 U | 2.6 J | 1.6 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.6 U | 1.8 U | 8.5 U | 1.5 U | 7.6 U | 1.7 U | 15 U | 1.8 U | 1.5 U | 1.8 U | 1.8 U | 1.6 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.5 U | 1.7 U | 8 U | 1.4 U | 7.1 U | 1.5 U | 14 U | 1.7 U | 1.4 U | 1.7 U | 1.7 U | 1.5 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.5 U | 1.7 U | 8 U | 1.4 U | 7.1 U | 1.5 U | 14 U | 1.7 U | 1.4 U | 1.7 U | 1.7 U | 1.5 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 6.6 J | 6.1 J | 8.5 U | 2 J | 7.6 U | 2.8 J | 120 | 9.8 J | 1.5 U | 12 | 11 J | 7.8 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 19 U | 21 U | 110 U | 18 U | 92 U | 20 U | 180 U | 22 U | 18 U | 22 U | 22 U | 19 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 3.6 NJ | 4.1 NJ | 0.36 U | 1 NJ | 0.33 U | 5.7 NJ | 1.9 J | 0.38 U | 0.23 U | 0.53 U | 0.37 U | 0.34 U |
| Phenol | 108-95-2 | ug/kg | 14 U | 6.2 J | 12 U | 3.5 J | 11 U | 5.3 J | 20 U | 8.4 J | 2.5 J | 21 U | 18 U | 11 J |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 82 | 93 J | 180 J | 30 | 160 | 100 | 70 U | 120 | 21 | 110 | 120 | 90 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 5.5 J | 7.1 J | 23 J | 3.2 U | 17 U | 9.5 J | 32 U | 14 | 4.4 J | 8.9 J | 6.3 J | 8.1 J |
| Dibutyl phthalate | 84-74-2 | ug/kg | 18 | 19 U | 45 U | 20 | 40 U | 23 | 79 U | 45 | 11 | 22 | 19 | 20 |
| Diethyl phthalate | 84-66-2 | ug/kg | 3.5 J | 2.9 J | 7.4 U | 3.6 J | 8.9 J | 2.5 J | 13 U | 4.9 J | 2.1 J | 4.5 J | 3.2 J | 2.8 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.1 U | 1.2 U | 5.7 U | 1 U | 5.1 U | 1.1 U | 10 U | 1.2 U | 1 U | 1.2 U | 1.2 U | 1.1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.8 U | 2 U | 9.6 U | 1.7 U | 8.6 U | 1.9 U | 17 U | 2.1 U | 1.7 U | 2 U | 2.1 U | 1.8 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.7 U | 3 U | 15 U | 2.6 U | 14 U | 2.8 U | 26 U | 3.1 U | 2.6 U | 3.1 U | 3.1 U | 2.8 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3 U | 3.4 U | 17 U | 2.9 U | 15 U | 3.2 U | 29 U | 3.5 U | 2.9 U | 3.5 U | 3.5 U | 3.1 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.1 U | 3.5 U | 17 U | 3 U | 16 U | 3.3 U | 30 U | 3.6 U | 3 U | 3.6 U | 3.6 U | 3.2 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3 U | 3.4 U | 17 U | 2.9 U | 15 U | 3.2 U | 29 U | 3.5 U | 2.9 U | 3.5 U | 3.5 U | 3.1 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.6 U | 1.8 U | 8.5 U | 1.5 U | 7.6 U | 1.7 U | 15 U | 1.8 U | 1.5 U | 1.8 U | 1.8 U | 1.6 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.1 U | 2.3 U | 12 U | 2 U | 11 U | 2.2 U | 20 U | 2.4 U | 2 U | 2.4 U | 2.4 U | 2.2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.7 U | 1.9 U | 9.1 U | 1.6 U | 8.1 U | 1.8 U | 16 U | 1.9 U | 1.6 U | 1.9 U | 1.9 U | 1.7 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.3 U | 3.7 U | 19 U | 3.2 U | 17 U | 3.5 U | 32 U | 3.8 U | 3.2 U | 3.8 U | 3.8 U | 3.4 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.8 U | 4.3 UJ | R | 3.7 U | 19 U | 4 U | 37 U | 4.4 U | 3.7 U | 4.4 U | 4.4 U | R |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.6 U | 2.9 U | 15 U | 2.5 U | 13 U | 2.7 U | 25 U | 3 U | 2.5 U | 3 U | 3 U | 2.7 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.7 U | 1.9 U | 9.1 U | 1.6 U | 8.1 U | 1.8 U | 16 U | 1.9 U | 1.6 U | 1.9 U | 1.9 U | 1.7 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2 U | 2.2 U | 11 U | 1.9 U | 9.7 U | 2.1 U | 19 U | 2.3 U | 1.9 U | 2.3 U | 2.3 U | 2 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.5 U | 1.7 U | 8 U | 1.4 U | 7.1 U | 1.5 U | 14 U | 1.7 U | 1.4 U | 1.7 U | 1.7 U | 1.5 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.9 U | 2.1 U | 11 U | 1.8 U | 9.2 U | 2 U | 18 U | 2.2 U | 1.8 U | 2.2 U | 2.2 U | 1.9 U |
| Aniline | 62-53-3 | ug/kg | 1.6 U | 1.8 U | R | 1.5 U | 7.6 U | 1.7 U | 15 U | 1.8 U | 1.5 U | 1.8 U | 8.8 J | R |
| Azobenzene | 103-33-3 | ug/kg | 1.2 U | 1.3 U | 6.3 U | 1.1 U | 5.6 U | 1.2 U | 11 U | 1.3 U | 1.1 U | 1.3 U | 1.3 U | 1.2 UJ |
| Benzoic acid | 65-85-0 | ug/kg | 180 J | 110 U | 550 U | 96 U | 490 U | 110 U | 960 U | 120 U | 96 U | 200 J | 180 J | 130 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 8.3 J | 5.2 J | 12 U | 3.2 J | 11 U | 4.7 J | 21 U | 7 J | 3.4 J | 10 J | 9.7 J | 6.1 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.6 U | 1.8 U | 8.5 U | 1.5 U | 7.6 U | 1.7 U | 15 U | 1.8 U | 1.5 U | 1.8 U | 1.8 U | 1.6 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2 U | 2.2 U | 11 U | 1.9 U | 9.7 U | 2.1 U | 19 U | 2.3 U | 1.9 U | 2.3 U | 2.3 U | 2 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.7 U | 3 U | 15 U | 2.6 U | 14 U | 2.8 U | 26 U | 3.1 U | 2.6 U | 3.1 U | 3.1 U | 2.8 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G612-2 | LW3-G613 | LW3-G614 | LW3-G616 | LW3-G617 | LW3-G618 | LW3-G619 | LW3-G620 | LW3-G621 | LW3-G622 | LW3-G623 | LW3-G624 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 21 | 0 - 28 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 9.8 J | 2.4 J | 7.4 U | 1.7 J | 16 J | 4.7 J | 49 J | 3.3 J | 2.9 J | 4.9 J | 3.6 J | 3.5 J |
| Dibenzofuran | 132-64-9 | ug/kg | 5.1 | 1.8 J | 2.6 J | 0.96 J | 8.7 | 5 | 110 | 1.8 J | 1.7 J | 4.2 | 2.2 J | 2 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.12 J | 0.23 U | 6.8 U | 0.068 U | 0.21 U | 0.22 U | 0.22 U | 0.24 U | 0.068 U | 0.2 J | 0.4 | 0.22 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.28 U | 0.77 J | 0.16 U | 0.14 U | 0.21 U | 0.15 U | 0.3 U | 0.6 J | 0.14 U | 0.17 U | 0.17 U | 0.15 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 30 U | 34 U | 170 U | 29 U | 150 U | 32 U | 290 U | 35 U | 29 U | 35 U | 35 U | 31 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.25 | 0.19 U | 0.19 U | 0.46 | 0.17 U | 0.18 U | 0.21 U | 0.19 U | 0.16 U | 0.19 U | 0.19 U | 0.17 U |
| Isophorone | 78-59-1 | ug/kg | 1.1 U | 1.2 U | 5.7 U | 1 U | 5.1 U | 1.1 U | 10 U | 1.2 U | 1 U | 1.2 U | 1.2 U | 1.1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.3 U | 2.6 U | 13 U | 2.2 U | 12 U | 2.4 U | 22 U | 2.6 U | 2.2 U | 2.6 U | 2.6 U | 2.4 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.2 U | 7 U | 35 U | 6.1 U | 31 U | 6.6 U | 61 U | 7.3 U | 6.1 U | 7.2 U | 7.3 U | 6.5 UJ |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.7 U | 1.9 U | 9.1 U | 1.6 U | 8.1 U | 1.8 U | 16 U | 1.9 U | 1.6 U | 1.9 U | 1.9 U | 1.7 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.5 U | 2.8 U | 14 U | 2.4 U | 13 U | 2.6 U | 24 U | 2.9 U | 2.4 U | 2.9 U | 2.9 U | 2.6 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G625 | LW3-G626 | LW3-G627-1 | LW3-G627-2 | LW3-G628 | LW3-G629 | LW3-G630 | LW3-G631 | LW3-G632 | LW3-G633 | LW3-G634 | LW3-G635 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 25 | 0 - 26 | 0 - 27 | 0 - 27 | 0 - 26 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.5 U | 15 U | 11 U | 16 U | 1.5 U | 1.3 U | 16 U | 17 U | 14 U | 17 U | 12 U | 11 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.5 U | 6.4 U | 1.6 U | 1.6 U | 1.5 U | 1.3 U | 5.8 U | 1.6 U | 1.5 U | 1.6 U | 1.9 U | 1.4 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.5 U | 13 U | 24 U | 40 U | 1.5 U | 1.3 U | 33 U | 34 U | 39 U | 25 U | 8.1 U | 15 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 3.1 | 4.2 U | 9.3 U | 12 U | 1.5 U | 9.7 NJ | 18 U | 17 U | 18 U | 8.5 U | 6.5 U | 4.7 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.5 U | 1.3 U | 1.6 U | 1.6 U | 1.5 U | 1.3 U | 1.5 U | 1.6 U | 1.5 U | 1.6 U | 1.3 U | 1.4 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 10 J | 41 U | 7.6 NJ | 7 J | 3.1 J | 46 | 6.5 J | 7.5 J | 7.4 J | 7.6 | 12 | 4.4 NJ |
| Aroclor 1260 | 11096-82-5 | ug/kg | 5.5 | 15 | 7.2 J | 7.3 J | 5.4 | 44 | 9.4 J | 6.5 | 5.1 J | 8.6 J | 10 J | 4.1 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.5 U | 1.3 U | 1.6 U | 1.6 U | 1.5 U | 1.3 U | 1.5 U | 1.6 U | 1.5 U | 1.6 U | 1.3 U | 1.4 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.5 U | 1.3 U | 1.6 U | 1.6 U | 1.5 U | 1.3 U | 1.5 U | 1.6 U | 1.5 U | 1.6 U | 1.3 U | 1.4 U |
| Aroclors | 12767-79-2 | ug/kg | 18.6 JT | 15 T | 14.8 JT | 14.3 JT | 8.5 JT | 99.7 JT | 15.9 JT | 14 JT | 12.5 JT | 16.2 JT | 22 JT | 8.5 JT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 115 | 136 | 90.8 | 82.4 | 121 | 171 | 63 | 122 | 71.7 | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.4 | 1.9 | 1.55 | 1.57 | 1.39 | 1.78 | 1.51 | 1.59 | 1.6 | 1.35 | 1.48 | 1.45 |
| Sulfide | 18496-25-8 | mg/kg | 0.5 U | 0.2 UJ | 37.5 J | 7.6 J | 2.1 | 16.4 J | 18 J | 9.1 J | 2.3 J | | | |
| Total organic carbon | TOC | percent | 1.94 | 1.46 | 2.18 | 2.29 | 1.91 | 1.48 | 2.01 | 2.2 | 1.93 | 2.11 | 1.93 | 1.35 |
| Total solids | TSO | percent | 44.8 | 59.6 | 42.8 | 41.8 | 43.9 | 56.3 | 43.1 | 41.8 | 44 | 41.6 | 52.6 | 47.6 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.578 J | | | | 0.308 J | 0.0204 U | 0.262 J | 1.2 | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 0.511 J | | | | 0.0116 U | 0.376 J | 0.87 J | 1.13 J | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 3.99 | | | | 2.53 J | 5.51 | 13.2 | 7.04 | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 30.2 | | | | 18.4 | 47.8 | 140 | 50.3 | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 113 | | | | 81.1 | 266 | 444 | 230 | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 1.19 | | | | 0.628 J | 0.174 J | 0.681 J | 1.76 | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 1.56 J | | | | 1.01 J | 1.82 J | 0.411 J | 2.59 J | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 2.92 J | | | | 3.88 | 5.36 | 3.66 J | 7.12 | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 5.68 | | | | 10.1 | 7.39 | 19 | 12.9 | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 6.15 J | | | | 10.6 | 5.77 J | 34.3 | 15.1 | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | 166 JT | | | | 129 JT | 340 JT | 656 JT | 329 JT | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.0218 U | | | | 0.0203 U | 0.0204 U | 0.0145 U | 0.0148 U | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.0796 J | | | | 0.0116 U | 0.035 U | 0.02 U | 0.153 J | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.0956 J | | | | 0.0676 J | 0.0432 U | 0.186 J | 0.185 U | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 0.498 J | | | | 0.369 J | 1.25 J | 1.36 J | 1.12 J | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 0.254 J | | | | 0.18 U | 0.308 J | 0.613 J | 0.628 J | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 11 | | | | 8.2 | 25.3 | 72.5 | 23.4 | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.24 J | | | | 0.0608 U | 0.101 U | 0.206 J | 0.353 J | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.185 J | | | | 0.0611 J | 0.169 J | 0.111 J | 0.2 J | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.108 U | | | | 0.059 J | 0.103 J | 0.0873 J | 0.184 J | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 0.346 J | | | | 0.12 U | 0.394 J | 0.259 J | 0.58 J | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.174 J | | | | 0.0848 J | 0.171 J | 0.0943 U | 0.236 J | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0219 U | | | | 0.021 U | 0.0385 U | 0.0243 U | 0.0356 U | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.126 U | | | | 0.102 J | 0.145 U | 0.153 J | 0.295 J | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 1.64 J | | | | 3.76 | 2.22 J | 3.77 J | 3.67 J | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.147 U | | | | 0.0473 U | 0.0582 U | 0.261 J | 0.268 J | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 0.408 JT | | | | 0.229 JT | 0.605 JT | 1.22 JT | 0.882 JT | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.408 JA | | | | 0.548 JT | 2.81 JT | 1.22 JA | 1.21 JT | | 0.294 JA | | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 1.12 | 0.53 | 0.3 | 0.34 | 0 | 0.5 | 0.28 | 0 | 0.6 | 0 | 0 | 0 |
| Fine gravel | GS_FG | percent | 0.98 | 0.4 | 1.61 | 0.44 | 0.76 | 0.48 | 2.82 | 0.44 | 2.04 | 0.46 | 0.16 | 0.13 |
| Very coarse sand | GS_VCS | percent | 0.94 | 0.4 | 1.29 | 0.71 | 0.81 | 1.03 | 1.12 | 0.84 | 1.91 | 0.3 | 0.44 | 0.15 |
| Coarse sand | GS_CS | percent | 0.78 | 0.53 | 1.14 | 0.74 | 0.52 | 4.31 | 1.22 | 0.59 | 2.23 | 0.54 | 0.78 | 3.95 |
| Medium sand | GS_MS | percent | 0.94 | 2.69 | 2.39 | 1.82 | 0.75 | 13.4 | 8.77 | 1 | 8.57 | 1.93 | 3.46 | 39.8 |
| Fine sand | GS_FS | percent | 4.19 | 22.3 | 6.24 | 5.43 | 4.27 | 7.67 | 11.2 | 4.21 | 8.1 | 8.34 | 14.8 | 7.81 |
| Very fine sand | GS_VFS | percent | 19.1 | 31 | 12.4 | 12.4 | 18.2 | 12.8 | 8.28 | 15.6 | 12.2 | 20.2 | 24 | 5.21 |
| Fines | GS_FINES | percent | 74.2 T | 45.6 T | 74.3 T | 84.7 T | 73.7 T | 61.7 T | 66.7 T | 79.6 T | 67.3 T | 75.5 T | 58.1 T | 51.7 T |
| Coarse silt | GS_CSILT | percent | 35.6 | 21.2 | 37.8 | 39.6 | 32.3 | 16.8 | 33.6 | 42.4 | 33.3 | 31.2 | 17 | 11.8 |
| Medium silt | GS_MSILT | percent | 15.9 | 9.06 | 15.4 | 14.3 | 16.4 | 15.3 | 12.3 | 14.4 | 13.6 | 17.2 | 11.8 | 13.6 |
| Fine silt | GS_FSILT | percent | 9.39 | 5.61 | 5.27 | 9.87 | 9.71 | 9.62 | 6.15 | 8.25 | 6.65 | 11.2 | 10.7 | 9.72 |
| Very fine silt | GS_VFSILT | percent | 4.77 | 3.13 | 7.22 | 10.7 | 6.3 | 8.95 | 7.21 | 7.8 | 6.58 | 3.62 | 3.85 | 3.75 |
| 8-9 Phi clay | GS_CCLAY | percent | 3.43 | 3.03 | 3.75 | 4.17 | 3.14 | 4.51 | 2.85 | 3.12 | 2.87 | 6.23 | 9.4 | 6.9 |
| >9 Phi clay | GS_MFCLAY | percent | 5.09 | 3.57 | 4.84 | 6.05 | 5.88 | 6.52 | 4.54 | 3.66 | 4.29 | 6.06 | 5.3 | 5.97 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G625 | LW3-G626 | LW3-G627-1 | LW3-G627-2 | LW3-G628 | LW3-G629 | LW3-G630 | LW3-G631 | LW3-G632 | LW3-G633 | LW3-G634 | LW3-G635 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 25 | 0 - 26 | 0 - 27 | 0 - 27 | 0 - 26 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 24700 | 19100 | 29600 | 28800 | 27800 | 26900 | 27000 | 31500 | 28700 | 29200 | 33900 | 22600 |
| Antimony | 7440-36-0 | mg/kg | 0.13 J | 0.46 J | 0.41 J | 0.37 J | 0.11 J | 0.41 J | 0.41 J | 0.44 J | 0.39 J | 0.38 J | 0.39 J | 0.33 J |
| Arsenic | 7440-38-2 | mg/kg | 3.15 | 2.82 | 3.59 | 3.8 | 3.01 | 3.55 | 4.2 | 3.35 | 3.79 | 3.64 | 3.68 | 3.74 |
| Cadmium | 7440-43-9 | mg/kg | 0.18 J | 0.17 J | 0.209 J | 0.21 J | 0.213 J | 0.337 J | 0.237 J | 0.179 J | 0.173 J | 0.208 | 0.224 | 0.16 |
| Chromium | 7440-47-3 | mg/kg | 24.2 | 20.9 | 30.5 | 33.9 | 25.1 | 30.8 | 31.2 | 26.4 | 29 | 24.7 | 26.4 | 19.4 |
| Copper | 7440-50-8 | mg/kg | 34.4 | 27.3 | 36.9 | 38.5 | 36.4 | 37.4 | 39.3 | 37.7 | 33.6 | 39.8 | 40 | 31.8 |
| Lead | 7439-92-1 | mg/kg | 11 | 16 | 11 | 11 | 12 | 28 | 13 | 11 | 10 | 13 | 13 | 9.5 |
| Mercury | 7439-97-6 | mg/kg | 0.056 | 0.081 | 0.059 | 0.065 | 0.058 | 0.11 | 0.056 | 0.063 | 0.058 | 0.069 | 0.078 | 0.056 |
| Nickel | 7440-02-0 | mg/kg | 19.7 | 18.9 | 21.8 | 23.2 | 20.9 | 22.8 | 22.2 | 21.2 | 20.2 | 22.8 | 25.8 | 19.8 |
| Silver | 7440-22-4 | mg/kg | 0.16 | 0.2 | 0.23 | 0.21 | 0.18 | 0.38 | 0.22 | 0.21 | 0.2 | 0.2 | 0.22 | 0.17 |
| Zinc | 7440-66-6 | mg/kg | 100 | 97.6 | 98.1 | 95.8 | 103 | 146 | 109 | 95.1 | 93 | 97.6 | 97.8 | 89.1 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 5.9 | 44 | 29 | 5.2 | 2.5 J | 40 | 6.8 | 3 | 10 | 3 J | 1.8 J | 3.7 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 11 | 76 | 44 | 8.7 | 3.9 | 80 | 13 | 4.9 | 12 | 5.2 | 2.1 J | 6.3 |
| Acenaphthene | 83-32-9 | ug/kg | 12 | 160 | 56 | 14 | 6.6 | 240 | 21 | 6.7 | 59 | 5.6 | 31 | 15 |
| Acenaphthylene | 208-96-8 | ug/kg | 12 | 87 | 11 | 10 | 4.8 | 17 | 88 | 5.4 | 12 | 5.2 | 7.8 | 20 |
| Anthracene | 120-12-7 | ug/kg | 37 | 95 | 35 | 31 | 12 | 86 | 77 | 14 | 35 | 12 | 28 | 25 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 83 | 400 | 93 | 77 | 37 | 140 | 770 | 49 | 94 | 45 | 84 | 150 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 140 | 790 | 130 | 120 | 52 | 150 | 1200 | 75 | 150 | 61 | 87 | 220 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 140 | 710 | 130 | 120 | 58 | 170 | 1000 | 76 | 140 | 69 | 97 | 200 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 97 | 490 | 92 | 81 | 39 | 100 | 690 | 49 | 100 | 44 | 58 | 130 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 130 | 670 | 120 | 110 | 44 | 110 | 870 | 58 | 130 | 54 | 62 | 170 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 43 | 220 | 43 | 39 | 18 | 60 | 290 | 22 | 41 | 23 | 30 | 63 |
| Chrysene | 218-01-9 | ug/kg | 130 | 510 | 130 | 110 | 51 | 170 | 910 | 64 | 130 | 56 | 88 | 190 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 15 | 79 | 14 | 12 | 6.3 | 17 | 100 | 8.2 | 16 | 6.8 | 9.7 | 20 |
| Dibenzothiophene | 132-65-0 | ug/kg | 7.6 | 67 | 13 | 9.4 | 3.7 | 40 | 35 | 5.2 | 16 | 3.2 | 17 | 6.4 |
| Fluoranthene | 206-44-0 | ug/kg | 190 | 650 | 190 | 170 | 85 | 460 | 1100 | 100 | 210 | 94 | 190 | 210 |
| Fluorene | 86-73-7 | ug/kg | 11 | 81 | 23 | 11 | 5.6 | 180 | 15 | 6 | 16 | 5.4 | 24 | 6.8 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 120 | 650 | 110 | 98 | 40 | 110 | 870 | 56 | 120 | 48 | 65 | 170 |
| Naphthalene | 91-20-3 | ug/kg | 31 | 200 | 32 | 28 | 14 | 150 | 52 | 17 | 31 | 15 | 1.6 J | 19 |
| Perylene | 198-55-0 | ug/kg | 51 | 220 | 74 | 60 | 31 | 97 | 300 | 32 | 63 | 24 | 76 | 60 |
| Phenanthrene | 85-01-8 | ug/kg | 96 | 580 | 120 | 87 | 40 | 680 | 250 | 53 | 140 | 40 | 180 | 52 |
| Pyrene | 129-00-0 | ug/kg | 200 | 770 | 220 | 200 | 93 | 430 | 1400 | 110 | 240 | 100 | 200 | 280 |
| High Molecular Weight PAH | HPAH | ug/kg | 1200 T | 5400 T | 1200 T | 1100 T | 480 T | 1800 T | 8500 T | 620 T | 1300 T | 560 T | 910 T | 1700 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 210 T | 1300 T | 320 T | 190 T | 87 T | 1400 T | 520 T | 110 T | 310 T | 88 T | 270 JT | 140 T |
| Total PAHs | 130498-29-2 | ug/kg | 1400 T | 6700 T | 1500 T | 1200 T | 570 T | 3300 T | 9000 T | 730 T | 1600 T | 650 T | 1200 JT | 1800 T |
| C1-Chrysene | C1_218-01-9 | ug/kg | 72 | 390 | 82 | 67 | 43 | 110 | 410 | 46 J | 110 | 36 | 72 | 110 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 5.6 | 44 | 6.3 | 6.4 | 3.3 | 30 | 39 | 2.7 J | 6.5 | 2.5 J | 22 | 9 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 89 | 420 | 96 | 77 | 42 | 200 | 680 | 50 | 100 | 45 | 99 | 160 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 9.5 | 57 | 9.4 | 6.4 | 4.3 | 42 | 36 | 3.9 | 12 | 4 | 21 | 7.8 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 37 | 410 | 70 | 55 | 18 | 230 | 400 | 30 | 78 | 24 | 120 | 60 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 37 | 260 | 45 | 35 | 24 | 78 | 190 | 25 | 100 | 17 | 45 | 57 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 12 | 120 | 17 | 17 | 8.9 | 52 | 110 | 8.9 | 22 | 7.1 | 32 | 28 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 53 | 320 | 60 | 46 | 28 | 110 | 300 | 28 | 85 | 22 | 65 | 94 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 11 | 96 | 17 | 13 | 5.6 | 44 | 88 | 6.6 | 15 | 5.2 | 36 | 19 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 19 | 150 | 39 | 12 | 7.2 | 86 | 27 | 6.7 | 35 | 5.8 | 22 | 9.5 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 56 | 320 | 56 | 44 | 30 | 140 | 360 | 20 | 64 | 25 | 100 | 97 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 25 | 160 | 31 | 22 | 15 | 53 | 100 | 17 | 76 | 13 | 31 | 35 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 22 | 130 | 15 | 14 | 10 | 62 | 110 | 10 | 19 | 6.7 | 29 | 30 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 29 | 200 | 37 | 27 | 13 | 83 | 170 | 17 | 82 | 13 | 36 | 49 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 18 | 140 | 19 | 18 | 9.8 | 66 | 140 | 11 | 25 | 6.5 | 47 | 36 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 9.8 | 170 | 17 | 10 | 4.4 | 90 | 51 | 6 | 21 | 4.8 | 29 | 9.1 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 56 | 270 | 41 | 34 | 34 | 150 | 280 | 21 | 46 | 18 | 70 | 98 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 12 | 69 | 19 | 15 | 5.4 | 29 | 43 | 9.2 | 43 | 0.25 U | 0.25 U | 11 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 10 | 110 | 14 | 11 | 5.5 | 55 | 78 | 7.3 | 14 | 6.4 | 44 | 15 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 14 | 120 | 21 | 19 | 10 | 55 | 91 | 12 | 28 | 8 | 30 | 33 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | 4.95 U | 55.4 | | 5.21 | | 6.77 | | |
| PCB002 | 2051-61-8 | pg/g | | | | | 11.9 | 17.4 | | 9.44 | | 11 | | |
| PCB003 | 2051-62-9 | pg/g | | | | | 6.67 | 42.2 | | 5.66 | | 5.58 | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | 43.8 | 75.8 | | 23 | | 39.2 | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | 54 | 303 | | 41.1 | | 47.6 | | |
| PCB006 | 25569-80-6 | pg/g | | | | | 9.91 U | 74.9 | | 9.92 U | | 11.3 | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | 9.91 U | 32.3 | | 9.92 U | | 9.76 U | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G625 | LW3-G626 | LW3-G627-1 | LW3-G627-2 | LW3-G628 | LW3-G629 | LW3-G630 | LW3-G631 | LW3-G632 | LW3-G633 | LW3-G634 | LW3-G635 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 25 | 0 - 26 | 0 - 27 | 0 - 27 | 0 - 26 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | 176 | 72.2 | | 160 | | 170 | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | 9.91 U | 46.5 | | 9.92 U | | 9.76 U | | |
| PCB014 | 34883-41-5 | pg/g | | | | | 9.91 U | 9.96 U | | 9.92 U | | 9.76 U | | |
| PCB015 | 2050-68-2 | pg/g | | | | | 53.4 | 301 | | 39 | | 50.9 | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | 63.3 | 414 | | 48.8 | | 60 | | |
| PCB017 | 37680-66-3 | pg/g | | | | | 47.6 | 328 | | 39.2 | | 49 | | |
| PCB018 | 37680-65-2 | pg/g | | | | | 84 | 628 | | 70.6 | | 77.1 | | |
| PCB019 | 38444-73-4 | pg/g | | | | | 50.8 | 47.1 | | 34.4 | | 54.5 | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | 92.8 | 688 | | 68.5 | | 83.4 | | |
| PCB022 | 38444-85-8 | pg/g | | | | | 65.3 | 367 | | 45.3 | | 53.4 | | |
| PCB023 | 55720-44-0 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | 12.9 | 46 | | 9.98 | | 12.8 | | |
| PCB025 | 55712-37-3 | pg/g | | | | | 20.6 | 140 | | 16.9 | | 19.7 | | |
| PCB026 | 38444-81-4 | pg/g | | | | | 34.5 | 195 | | 25.4 | | 31.7 | | |
| PCB028 | 7012-37-5 | pg/g | | | | | 173 | 1620 | | 150 | | 182 | | |
| PCB029 | 15862-07-4 | pg/g | | | | | 4.95 U | 5.31 | | 4.96 U | | 4.88 U | | |
| PCB030 | 35693-92-6 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB031 | 16606-02-3 | pg/g | | | | | 156 | 1100 | | 130 | | 138 | | |
| PCB034 | 37680-68-5 | pg/g | | | | | 4.95 U | 20.4 | | 4.96 U | | 4.88 U | | |
| PCB035 | 37680-69-6 | pg/g | | | | | 4.95 U | 33.7 | | 4.96 U | | 5.1 | | |
| PCB036 | 38444-87-0 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB037 | 38444-90-5 | pg/g | | | | | 63.9 | 492 | | 53.6 | | 61.8 | | |
| PCB038 | 53555-66-1 | pg/g | | | | | 4.95 U | 21.4 | | 4.96 U | | 5 | | |
| PCB039 | 38444-88-1 | pg/g | | | | | 4.95 U | 20.8 | | 4.96 U | | 4.88 U | | |
| PCB040 | 38444-93-8 | pg/g | | | | | 33.9 | 235 | | 20.8 | | 22.5 | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | 128 | 1410 | | 130 | | 148 | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | 52.4 | 534 | | 44.5 | | 50.1 | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | 215 | 2090 | | 164 | | 206 | | |
| PCB044 | 41464-39-5 | pg/g | | | | | 159 | 1660 | | 147 | | 159 | | |
| PCB045 | 70362-45-7 | pg/g | | | | | 26.2 | 177 | | 16.6 | | 19.3 | | |
| PCB046 | 41464-47-5 | pg/g | | | | | 15 UJ | 85.5 | | 9.33 | | 11.2 | | |
| PCB047 | 2437-79-8 | pg/g | | | | | 185 | 765 | | 116 | | 160 | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | 28.6 | 326 | | 28.8 | | 34.9 | | |
| PCB050 | 62796-65-0 | pg/g | | | | | 4.95 U | 7.84 | | 4.96 U | | 4.88 U | | |
| PCB051 | 68194-04-7 | pg/g | | | | | 51.4 | 95.1 | | 35.2 | | 54.1 | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | 268 | 2240 | | 208 | | 230 | | |
| PCB053 | 41464-41-9 | pg/g | | | | | 62.8 | 228 | | 51.4 | | 60.9 | | |
| PCB054 | 15968-05-5 | pg/g | | | | | 11.8 | 5.01 | | 9.97 | | 14.5 | | |
| PCB055 | 74338-24-2 | pg/g | | | | | 4.95 U | 31.4 | | 4.96 U | | 4.88 U | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | 115 | 931 | | 92.3 | | 104 | | |
| PCB057 | 70424-67-8 | pg/g | | | | | 4.95 U | 14.3 | | 4.96 U | | 4.88 U | | |
| PCB058 | 41464-49-7 | pg/g | | | | | 4.95 U | 31.9 | | 4.96 U | | 4.88 U | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | 265 | 2820 | | 218 | | 239 | | |
| PCB062 | 54230-22-7 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB063 | 74472-34-7 | pg/g | | | | | 8.48 | 89.5 | | 6.63 | | 7.51 | | |
| PCB065 | 33284-54-7 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | 230 | 2390 | | 183 | | 201 | | |
| PCB067 | 73575-53-8 | pg/g | | | | | 7.15 | 52.4 | | 5.94 | | 6.23 | | |
| PCB068 | 73575-52-7 | pg/g | | | | | 4.95 U | 80 | | 4.96 U | | 4.88 U | | |
| PCB073 | 74338-23-1 | pg/g | | | | | 4.95 U | 13.7 | | 4.96 U | | 4.88 U | | |
| PCB074 | 32690-93-0 | pg/g | | | | | 92.4 | 920 | | 78 | | 87 | | |
| PCB077 | 32598-13-3 | pg/g | | | | | 22.5 | 204 | | 22 | | 24.2 | | |
| PCB078 | 70362-49-1 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB079 | 41464-48-6 | pg/g | | | | | 4.95 U | 89.8 | | 4.96 U | | 5.6 | | |
| PCB080 | 33284-52-5 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB081 | 70362-50-4 | pg/g | | | | | 1.8 U | 10.6 | | 1.01 J | | 0.798 J | | |
| PCB082 | 52663-62-4 | pg/g | | | | | 45.2 | 403 | | 33.3 | | 37.9 | | |
| PCB083 | 60145-20-2 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | 155 | 2130 | | 134 | | 163 | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | 50.9 | 587 | | 50.2 | | 57.5 | | |
| PCB086 | 55312-69-1 | pg/g | | | | | 4.95 U | 11.5 | | 4.96 U | | 4.88 U | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | 102 | 1100 | | 103 | | 119 | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | 66.4 | 816 | | 60.5 | | 76.2 | | |
| PCB089 | 73575-57-2 | pg/g | | | | | 4.95 U | 35.7 | | 4.96 U | | 4.88 U | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | 385 | 5210 | | 359 | | 438 | | |
| PCB093 | 73575-56-1 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G625 | LW3-G626 | LW3-G627-1 | LW3-G627-2 | LW3-G628 | LW3-G629 | LW3-G630 | LW3-G631 | LW3-G632 | LW3-G633 | LW3-G634 | LW3-G635 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 25 | 0 - 26 | 0 - 27 | 0 - 27 | 0 - 26 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | 9.31 | 20.9 | | 6.82 | | 8.64 | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | 286 | 3650 | | 278 | | 328 | | |
| PCB096 | 73575-54-9 | pg/g | | | | | 4.95 U | 33.4 | | 6.32 | | 7.8 | | |
| PCB097 | 41464-51-1 | pg/g | | | | | 85.2 | 1210 | | 82 | | 97 | | |
| PCB099 | 38380-01-7 | pg/g | | | | | 192 | 2750 | | 166 | | 204 | | |
| PCB100 | 39485-83-1 | pg/g | | | | | 26.6 | 77.6 | | 20.8 | | 26.9 | | |
| PCB103 | 60145-21-3 | pg/g | | | | | 15.7 | 169 | | 12.5 | | 16.4 | | |
| PCB104 | 56558-16-8 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB105 | 32598-14-4 | pg/g | | | | | 118 | 962 | | 98 | | 113 | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | 327 | 3720 | | 292 | | 336 | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | 27.2 | 414 | | 25.8 | | 31.8 | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | 15 | 210 | | 15.5 | | 19.6 | | |
| PCB110 | 38380-03-9 | pg/g | | | | | 415 | 5170 | | 385 | | 448 | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | 6.12 | 40.1 | | 5.62 | | 6.14 | | |
| PCB113 | 68194-10-5 | pg/g | | | | | 4.95 U | 21.3 | | 4.96 U | | 4.88 U | | |
| PCB114 | 74472-37-0 | pg/g | | | | | 6.28 | 55.4 | | 5.45 | | 6.23 | | |
| PCB119 | 56558-17-9 | pg/g | | | | | 14.1 | 251 | | 15.5 | | 18.9 | | |
| PCB120 | 68194-12-7 | pg/g | | | | | 4.95 U | 49.8 | | 4.96 U | | 4.88 U | | |
| PCB121 | 56558-18-0 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB122 | 76842-07-4 | pg/g | | | | | 4.95 U | 39.6 | | 4.96 U | | 4.88 U | | |
| PCB123 | 65510-44-3 | pg/g | | | | | 6.03 | 48.4 | | 4.99 | | 5.77 | | |
| PCB124 | 70424-70-3 | pg/g | | | | | 16.9 | 98.2 | | 14.3 | | 17.8 | | |
| PCB126 | 57465-28-8 | pg/g | | | | | 3.01 J | 20.2 | | 3.08 J | | 2.75 J | | |
| PCB127 | 39635-33-1 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | 77.1 | 664 | | 66.7 | | 79.2 | | |
| PCB129 | 55215-18-4 | pg/g | | | | | 18.5 | 166 | | 16 | | 21.3 | | |
| PCB130 | 52663-66-8 | pg/g | | | | | 27.7 | 430 | | 31.1 | | 37.6 | | |
| PCB131 | 61798-70-7 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | 151 | 1610 | | 134 | | 169 | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | 21.5 | 271 | | 17.5 | | 23.3 | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | 30.1 | 279 | | 25.1 | | 33.1 | | |
| PCB135 | 52744-13-5 | pg/g | | | | | 82.2 | 1080 | | 79 | | 95.4 | | |
| PCB136 | 38411-22-2 | pg/g | | | | | 85.2 | 982 | | 78.5 | | 92 | | |
| PCB137 | 35694-06-5 | pg/g | | | | | 22 | 155 | | 15.4 | | 19.3 | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | 581 | 5680 | | 551 | | 672 | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | 431 | 5990 | | 480 | | 552 | | |
| PCB140 | 59291-64-4 | pg/g | | | | | 4.95 U | 101 | | 4.98 | | 5.52 | | |
| PCB141 | 52712-04-6 | pg/g | | | | | 144 | 955 | | 101 | | 129 | | |
| PCB144 | 68194-14-9 | pg/g | | | | | 23.5 | 265 | | 22.9 | | 30 | | |
| PCB145 | 74472-40-5 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | 111 | 1600 | | 96.9 | | 125 | | |
| PCB147 | 68194-13-8 | pg/g | | | | | 18.3 | 144 | | 21.9 | | 27.2 | | |
| PCB148 | 74472-41-6 | pg/g | | | | | 4.95 U | 62.4 | | 4.96 U | | 4.88 U | | |
| PCB150 | 68194-08-1 | pg/g | | | | | 4.95 U | 40.7 | | 4.96 U | | 4.88 U | | |
| PCB151 | 52663-63-5 | pg/g | | | | | 161 | 1720 | | 154 | | 182 | | |
| PCB152 | 68194-09-2 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB153 | 35065-27-1 | pg/g | | | | | 734 | 6820 | | 574 | | 717 | | |
| PCB154 | 60145-22-4 | pg/g | | | | | 13.1 | 350 | | 15.4 | | 20 | | |
| PCB155 | 33979-03-2 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB156 | 38380-08-4 | pg/g | | | | | 50.8 | 423 | | 43.1 | | 51.3 | | |
| PCB157 | 69782-90-7 | pg/g | | | | | 10.8 | 76.9 | | 9.13 | | 10.3 | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | 55.1 | 462 | | 53.9 | | 63.8 | | |
| PCB159 | 39635-35-3 | pg/g | | | | | 8.73 | 4.98 U | | 7.51 | | 4.88 U | | |
| PCB166 | 41411-63-6 | pg/g | | | | | 4.95 U | 12.5 | | 4.96 U | | 4.88 U | | |
| PCB167 | 52663-72-6 | pg/g | | | | | 20.2 | 175 | | 19.8 | | 23.1 | | |
| PCB168 | 59291-65-5 | pg/g | | | | | 4.95 U | 19.6 | | 4.96 U | | 4.88 U | | |
| PCB169 | 32774-16-6 | pg/g | | | | | 4.15 U | 2.03 U | | 1.07 U | | 1.31 U | | |
| PCB170 | 35065-30-6 | pg/g | | | | | 213 | 1830 | | 190 | | 227 | | |
| PCB171 | 52663-71-5 | pg/g | | | | | 60.9 | 583 | | 52.7 | | 64.5 | | |
| PCB172 | 52663-74-8 | pg/g | | | | | 38.3 | 355 | | 33.2 | | 40 | | |
| PCB173 | 68194-16-1 | pg/g | | | | | 4.95 U | 50 | | 5.87 | | 6.08 | | |
| PCB174 | 38411-25-5 | pg/g | | | | | 244 | 2590 | | 217 | | 279 | | |
| PCB175 | 40186-70-7 | pg/g | | | | | 9.82 | 99.2 | | 9.12 | | 11.6 | | |
| PCB176 | 52663-65-7 | pg/g | | | | | 25.6 | 345 | | 25.2 | | 32.2 | | |
| PCB177 | 52663-70-4 | pg/g | | | | | 171 | 1570 | | 127 | | 166 | | |
| PCB178 | 52663-67-9 | pg/g | | | | | 56.9 | 562 | | 46.3 | | 60.1 | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G625 | LW3-G626 | LW3-G627-1 | LW3-G627-2 | LW3-G628 | LW3-G629 | LW3-G630 | LW3-G631 | LW3-G632 | LW3-G633 | LW3-G634 | LW3-G635 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 25 | 0 - 26 | 0 - 27 | 0 - 27 | 0 - 26 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | 121 | 1200 | | 101 | | 125 | | |
| PCB180 | 35065-29-3 | pg/g | | | | | 536 | 4860 | | 471 | | 594 | | |
| PCB181 | 74472-47-2 | pg/g | | | | | 4.95 U | 11.4 | | 4.96 U | | 4.88 U | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | 314 | 3250 | | 277 | | 352 | | |
| PCB183 | 52663-69-1 | pg/g | | | | | 136 | 1250 | | 111 | | 139 | | |
| PCB184 | 74472-48-3 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB185 | 52712-05-7 | pg/g | | | | | 29.7 | 259 | | 23.9 | | 31.8 | | |
| PCB186 | 74472-49-4 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB188 | 74487-85-7 | pg/g | | | | | 4.95 U | 7.4 | | 4.96 U | | 4.88 U | | |
| PCB189 | 39635-31-9 | pg/g | | | | | 4.32 U | 65.8 | | 7.54 | | 8.92 | | |
| PCB190 | 41411-64-7 | pg/g | | | | | 43.5 | 384 | | 42.6 | | 51.4 | | |
| PCB191 | 74472-50-7 | pg/g | | | | | 6.69 | 79.4 | | 7.6 | | 9.61 | | |
| PCB192 | 74472-51-8 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB193 | 69782-91-8 | pg/g | | | | | 26.4 | 273 | | 25.6 | | 31.5 | | |
| PCB194 | 35694-08-7 | pg/g | | | | | 123 | 1100 | | 118 | | 149 | | |
| PCB195 | 52663-78-2 | pg/g | | | | | 57.5 | 494 | | 52 | | 64.9 | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | 117 | 1320 | | 129 | | 180 | | |
| PCB197 | 33091-17-7 | pg/g | | | | | 4.95 U | 45.5 | | 4.96 U | | 5.64 | | |
| PCB198 | 68194-17-2 | pg/g | | | | | 7.09 UJ | 58.1 | | 6.35 | | 8.22 | | |
| PCB199 | 52663-75-9 | pg/g | | | | | 130 | 1270 | | 120 | | 177 | | |
| PCB200 | 52663-73-7 | pg/g | | | | | 14.9 | 175 | | 15.4 | | 20.1 | | |
| PCB201 | 40186-71-8 | pg/g | | | | | 17 | 171 | | 14 | | 20.8 | | |
| PCB202 | 2136-99-4 | pg/g | | | | | 26.1 | 245 | | 25.2 | | 34.6 | | |
| PCB204 | 74472-52-9 | pg/g | | | | | 4.95 U | 4.98 U | | 4.96 U | | 4.88 U | | |
| PCB205 | 74472-53-0 | pg/g | | | | | 5.38 | 51.4 | | 5.98 | | 7.47 | | |
| PCB206 | 40186-72-9 | pg/g | | | | | 97.1 | 486 | | 79.4 | | 95.6 | | |
| PCB207 | 52663-79-3 | pg/g | | | | | 7.7 | 61.1 | | 8.46 | | 10.4 | | |
| PCB208 | 52663-77-1 | pg/g | | | | | 29.6 | 139 | | 26 | | 32.4 | | |
| PCB209 | 2051-24-3 | pg/g | | | | | 107 | 478 | | 88.6 | | 83.5 | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | 11200 JT | 110000 T | | 9820 JT | | 11900 JT | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | 0.319 JT | 2.21 T | | 0.325 JT | | 0.294 JT | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | 18.6 T | 115 T | | 20.3 T | | 23.4 T | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | 327 T | 906 T | | 263 T | | 319 T | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | 865 T | 6170 T | | 693 T | | 834 T | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | 1960 T | 17500 T | | 1590 JT | | 1850 JT | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | 2370 JT | 29300 T | | 2180 JT | | 2590 JT | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | 2880 T | 30500 T | | 2620 T | | 3180 T | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | 2030 T | 19600 T | | 1770 T | | 2230 T | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | 491 T | 4930 T | | 486 T | | 668 T | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | 134 T | 686 T | | 114 T | | 138 T | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.82 NJ | 4.9 | 0.83 J | 1.5 | 0.4 U | 3.9 NJ | 0.83 U | 1.3 U | 0.98 J | 0.44 U | 1.5 NJ | 0.84 J |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.23 U | 1.1 U | 0.054 U | 0.055 U | 0.23 U | 0.87 U | 0.054 U | 0.055 U | 0.053 U | 0.25 U | 0.046 U | 0.21 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.79 | 3.3 | 0.72 U | 0.74 U | 0.55 | 2.7 J | 0.87 U | 0.57 U | 0.87 U | 0.44 U | 0.71 | 0.81 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 2.1 | 16 | 2.6 | 3.1 | 1.3 | 3 | 3 | 1.3 | 2.7 | 1.6 | 3 | 1.4 |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.9 | 6.4 J | 2.3 | 2.2 | 1.7 | 4.7 J | 2.3 | 1.7 | 2.1 | 2 | 4.3 | 1.4 |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.84 U | 84 | 4 | 0.7 U | 0.5 U | 4.6 | 1.6 | 0.57 U | 0.51 U | 2.2 J | 1.7 J | 0.55 U |
| Aldrin | 309-00-2 | ug/kg | 0.36 U | 0.51 U | 0.26 U | 0.38 U | 0.22 U | 0.12 U | 0.28 U | 0.77 J | 0.27 U | 0.9 J | 0.66 J | 0.13 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.15 J | 0.21 J | 0.08 J | 0.14 J | 0.21 J | 0.037 U | 0.55 U | 0.21 J | 0.17 J | 0.22 U | 0.22 U | 0.082 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.11 U | 0.097 U | 0.33 U | 0.12 U | 0.11 U | 0.097 U | 0.12 U | 0.12 U | 0.11 U | 0.12 U | 0.097 U | 0.11 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.086 U | 0.15 U | 0.24 U | 0.037 U | 0.086 J | 0.5 U | 0.036 U | 0.038 U | 0.17 U | 0.34 J | 0.14 U | 0.033 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.16 U | 0.14 U | 0.17 U | 0.17 U | 0.29 U | 0.25 U | 0.33 U | 0.17 U | 0.16 U | 0.17 U | 0.32 U | 0.15 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.085 U | 0.27 U | 0.29 U | 0.037 U | 0.13 J | 0.037 U | 0.24 U | 0.038 U | 0.036 U | 0.21 U | 0.45 | 0.033 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.63 U | 0.83 U | 0.56 U | 0.57 U | 0.5 U | 2.3 U | 0.61 U | 0.43 U | 0.67 U | 0.44 U | 0.63 U | 0.32 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.44 U | 0.11 U | 0.24 U | 0.14 U | 0.13 U | 0.11 U | 0.13 U | 0.14 U | 0.13 U | 0.14 U | 0.13 U | 0.12 U |
| Dieldrin | 60-57-1 | ug/kg | 0.034 U | 0.4 U | 0.26 U | 0.24 U | 0.034 U | 0.24 NJ | 0.52 U | 0.036 U | 0.63 J | 0.38 U | 0.28 NJ | 0.58 NJ |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.23 U | 0.2 U | 0.24 U | 0.24 U | 0.23 U | 0.058 U | 0.067 U | 0.24 U | 0.23 U | 0.25 U | 0.67 U | 0.21 U |
| Endrin | 72-20-8 | ug/kg | 0.079 U | 0.071 U | 0.083 U | 0.085 U | 0.081 U | 0.31 U | 0.39 U | 0.085 U | 0.081 U | 0.25 U | 0.071 U | 0.074 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.047 U | 0.042 U | 0.24 U | 0.24 U | 0.048 U | 0.25 U | 0.72 U | 0.24 U | 0.23 U | 0.051 U | 0.4 U | 0.21 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.19 U | 1 J | 0.37 NJ | 0.43 NJ | 0.18 U | 0.75 U | 0.74 | 0.28 J | 0.39 NJ | 0.22 U | 0.52 NJ | 0.35 NJ |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.23 U | 0.8 U | 0.24 U | 0.24 U | 0.23 U | 0.2 U | 0.52 U | 0.16 U | 0.24 U | 0.19 U | 0.34 | 0.21 U |
| Heptachlor | 76-44-8 | ug/kg | 0.084 U | 0.17 U | 0.089 U | 0.091 U | 0.086 U | 0.31 U | 0.088 U | 0.091 U | 0.087 U | 0.092 U | 0.49 | 0.08 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.23 U | 0.28 U | 0.26 U | 0.24 U | 0.23 U | 0.52 U | 0.32 U | 0.24 U | 0.23 NJ | 0.36 U | 0.23 U | 0.54 NJ |
| Methoxychlor | 72-43-5 | ug/kg | 0.53 U | 0.22 U | 0.29 U | 0.67 U | 0.5 U | 0.44 U | 0.43 U | 0.47 U | 0.62 U | 0.67 U | 0.45 U | 0.48 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G625 | LW3-G626 | LW3-G627-1 | LW3-G627-2 | LW3-G628 | LW3-G629 | LW3-G630 | LW3-G631 | LW3-G632 | LW3-G633 | LW3-G634 | LW3-G635 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 25 | 0 - 26 | 0 - 27 | 0 - 27 | 0 - 26 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.14 U | 0.12 U | 0.15 U | 0.15 U | 0.14 U | 0.12 U | 0.14 U | 0.15 U | 0.14 U | 0.15 U | 0.12 U | 0.13 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.23 U | 0.2 U | 0.24 U | 0.24 U | 0.23 U | 0.2 U | 0.14 U | 0.54 U | 0.23 U | 0.36 U | 0.061 U | 0.064 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.59 JT | 0.86 UT | 0.59 JT | 0.68 JT | 0.75 JT | 2.3 JT | 0.61 UT | 0.81 JT | 0.63 JT | 0.91 JT | 1.8 T | 0.36 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.15 JT | 0.21 JT | 0.08 JT | 0.14 JT | 0.3 JT | 0.5 UT | 0.55 UT | 0.21 JT | 0.17 JT | 0.34 JT | 0.67 UT | 0.21 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 2.9 JT | 21 T | 3.4 JT | 4.6 T | 1.3 T | 6.9 JT | 3 T | 1.3 T | 3.7 JT | 1.6 T | 4.5 JT | 2.2 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 5.6 JT | 110 JT | 9.7 JT | 6.8 T | 3.6 T | 19 JT | 6.9 T | 3 T | 5.8 JT | 5.8 JT | 11 JT | 3.6 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.9 T | 6.4 JT | 2.3 T | 2.2 T | 1.7 T | 4.7 JT | 2.3 T | 1.7 T | 2.1 T | 2 T | 4.3 T | 1.4 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.79 T | 87 T | 4 T | 0.74 UT | 0.55 T | 7.3 JT | 1.6 T | 0.57 UT | 0.87 UT | 2.2 JT | 2.4 JT | 0.81 UT |
| Toxaphene | 8001-35-2 | ug/kg | 17 U | 31 U | 21 U | 20 U | 24 U | 86 U | 65 U | 21 U | 19 U | 38 U | 28 U | 24 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.32 | 0.86 U | 0.43 | 0.43 | 0.41 J | 2.1 | 0.35 U | 0.66 NJ | 0.38 J | 0.72 NJ | 0.96 | 0.26 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.27 NJ | 0.2 U | 0.16 J | 0.25 NJ | 0.21 J | 0.22 J | 0.26 U | 0.15 J | 0.25 NJ | 0.19 J | 0.36 | 0.095 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 64 J | 140 J | 95 J | 83 J | 58.1 JT | 170 J | 120 J | 75 J | 99 J | 88 J | 99 J | 75 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 39 J | 79 J | 62 J | 59 J | 38 JT | 130 J | 58 J | 44 J | 64 J | 58 J | 82 J | 40 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 370 J | 380 J | 550 J | 490 J | 364 JT | 500 J | 800 J | 520 J | 500 J | 520 J | 360 J | 380 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 160 J | 160 J | 240 J | 220 J | 160 JT | 310 J | 210 J | 180 J | 210 J | 240 J | 190 J | 150 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 434 JA | 520 JA | 645 JA | 573 JA | 422 JA | 670 JA | 920 JA | 595 JA | 599 JA | 608 JA | 459 JA | 455 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 199 JA | 239 JA | 302 JA | 279 JA | 198 JA | 440 JA | 268 JA | 224 JA | 274 JA | 298 JA | 272 JA | 190 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 2.4 U | 0.69 U | 0.49 U | 0.51 U | 0.48 U | 1.1 U | 0.48 U | 0.5 U | 0.47 U | 0.5 U | 1.2 J | 0.43 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.38 U | 0.28 U | 0.4 U | 0.41 U | 0.39 U | 0.77 NJ | 0.39 U | 1 NJ | 0.38 U | 0.41 U | 0.31 U | 0.35 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.9 U | 0.9 U | 1.3 U | 1.4 U | 1.3 U | 0.96 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 8.6 U | 1.2 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.25 U | 0.34 U | 0.26 U | 0.27 U | 0.25 U | 0.45 J | 0.25 U | 0.27 U | 0.25 U | 0.27 U | 0.21 NJ | 0.23 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.2 U | 5 U | 5.9 U | 6 U | 1.2 U | 5 U | 5.8 U | 5.9 U | 5.7 U | 1.3 U | 5 U | 5.3 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 6.1 U | 28 U | 32 U | 33 U | 6.3 U | 28 U | 32 U | 33 U | 32 U | 6.7 U | 28 U | 29 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 19 U | 85 U | 99 U | 110 U | 20 U | 85 U | 99 U | 100 U | 97 U | 21 U | 85 U | 90 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.3 U | 10 U | 12 U | 12 U | 2.3 U | 10 U | 12 U | 12 U | 12 U | 2.5 U | 10 U | 11 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.7 U | 7.5 U | 8.8 U | 9 U | 1.7 U | 7.5 U | 8.7 U | 8.9 U | 8.5 U | 1.9 U | 7.5 U | 7.9 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.7 U | 7.5 U | 8.8 U | 9 U | 1.7 U | 7.5 U | 8.7 U | 8.9 U | 8.5 U | 1.9 U | 7.5 U | 7.9 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.6 U | 7 U | 8.2 U | 8.4 U | 1.6 U | 7 U | 8.2 U | 8.3 U | 8 U | 1.7 U | 7 U | 7.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.6 U | 7 U | 8.2 U | 8.4 U | 1.6 U | 7 U | 8.2 U | 8.3 U | 8 U | 1.7 U | 7 U | 7.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 10 J | 17 J | 13 J | 12 J | 9.4 J | 58 | 11 J | 16 J | 12 J | 7.7 J | 25 J | 7.9 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 20 U | 90 U | 110 U | 110 U | 21 U | 90 U | 110 U | 110 U | 110 U | 22 U | 90 U | 95 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.53 U | 1.8 J | 0.37 U | 5.7 NJ | 9.7 J | 8.1 NJ | 0.37 U | 0.38 U | 0.36 U | 0.38 U | 33 | 0.33 U |
| Phenol | 108-95-2 | ug/kg | 19 U | 12 J | 12 J | 12 U | 19 U | 12 J | 12 U | 12 U | 12 U | 5.6 J | 10 U | 11 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 100 | 35 U | 200 | 210 | 140 | 100 | 170 | 170 | 200 | 170 | 50 J | 90 J |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.6 U | 20 J | 19 U | 20 U | 3.7 U | 16 U | 19 U | 19 U | 19 U | 8.7 J | 16 U | 23 J |
| Dibutyl phthalate | 84-74-2 | ug/kg | 16 | 40 U | 46 U | 47 U | 18 | 40 J | 68 | 47 U | 45 U | 14 | 40 U | 42 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 3.8 J | 6.5 U | 7.6 U | 7.8 U | 3.4 J | 6.5 U | 10 J | 7.7 U | 7.4 U | 2.3 J | 6.5 U | 7.1 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.2 U | 5 U | 5.9 U | 6 U | 1.2 U | 5 U | 5.8 U | 5.9 U | 5.7 U | 1.3 U | 5 U | 5.3 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.9 U | 8.5 U | 9.9 U | 11 U | 2 U | 8.5 U | 9.9 U | 10 U | 9.7 U | 2.1 U | 8.5 U | 9 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.9 U | 13 U | 16 U | 16 U | 3 U | 13 U | 16 U | 16 U | 15 U | 3.2 U | 13 U | 14 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3.3 U | 15 U | 17 U | 18 U | 3.3 U | 15 U | 17 U | 18 U | 17 U | 3.5 U | 15 U | 16 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.4 U | 15 U | 18 U | 18 U | 3.4 U | 15 U | 18 U | 18 U | 17 U | 3.7 U | 15 U | 16 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3.3 U | 15 U | 17 U | 18 U | 3.3 U | 15 U | 17 U | 18 U | 17 U | 3.5 U | 15 U | 16 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.7 U | 7.5 U | 8.8 U | 9 U | 1.7 U | 7.5 U | 8.7 U | 8.9 U | 8.5 U | 1.9 U | 7.5 U | 7.9 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.3 U | 10 U | 12 U | 12 U | 2.3 U | 10 U | 12 U | 12 U | 12 U | 2.5 U | 10 U | 11 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.8 U | 8 U | 9.3 U | 9.6 U | 1.9 U | 8 U | 9.3 U | 9.4 U | 9.1 U | 2 U | 8 U | 8.4 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.6 U | 16 U | 19 U | 20 U | 3.7 U | 16 U | 19 U | 19 U | 19 U | 3.9 U | 16 U | 17 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 4.1 U | 19 U | 22 U | 22 U | 4.2 U | 19 U | 22 U | 22 U | 21 U | 4.5 U | 19 U | 20 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.8 U | 13 U | 15 U | 15 U | 2.9 U | 13 U | 15 U | 15 U | 15 U | 3.1 U | 13 U | 14 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.8 U | 8 U | 9.3 U | 9.6 U | 1.9 U | 8 U | 9.3 U | 9.4 U | 9.1 U | 2 U | 8 U | 8.4 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2.2 U | 9.5 U | 12 U | 12 U | 2.2 U | 14 J | 12 U | 12 U | 11 U | 2.3 U | 9.5 U | 10 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.6 U | 7 U | 8.2 U | 8.4 U | 1.6 U | 7 U | 8.2 U | 8.3 U | 8 U | 1.7 U | 7 U | 7.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 2 U | 9 U | 11 U | 11 U | 2.1 U | 9 U | 11 U | 11 U | 11 U | 2.2 U | 9 U | 9.5 U |
| Aniline | 62-53-3 | ug/kg | 1.7 U | 7.5 U | 8.8 U | 9 U | 15 J | 7.5 U | 18 J | 8.9 U | 8.5 U | 1.9 U | 7.5 U | 7.9 U |
| Azobenzene | 103-33-3 | ug/kg | 1.3 U | 5.5 U | 6.4 U | 6.6 U | 1.3 U | 5.5 U | 6.4 U | 6.5 U | 6.3 U | 1.4 U | 5.5 U | 5.8 U |
| Benzoic acid | 65-85-0 | ug/kg | 200 J | 480 U | 560 U | 580 U | 190 J | 480 U | 560 U | 570 U | 550 U | 120 U | 480 U | 510 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 9.5 J | 11 U | 13 U | 13 U | 9.4 J | 11 U | 13 U | 13 U | 12 U | 4.3 J | 11 U | 12 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.7 U | 7.5 U | 8.8 U | 9 U | 1.7 U | 7.5 U | 8.7 U | 8.9 U | 8.5 U | 1.9 U | 7.5 U | 7.9 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2.2 U | 9.5 U | 12 U | 12 U | 2.2 U | 9.5 U | 12 U | 12 U | 11 U | 2.3 U | 9.5 U | 10 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.9 U | 13 U | 16 U | 16 U | 3 U | 13 U | 16 U | 16 U | 15 U | 3.2 U | 13 U | 14 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G625 | LW3-G626 | LW3-G627-1 | LW3-G627-2 | LW3-G628 | LW3-G629 | LW3-G630 | LW3-G631 | LW3-G632 | LW3-G633 | LW3-G634 | LW3-G635 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 25 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 25 | 0 - 26 | 0 - 27 | 0 - 27 | 0 - 26 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 5.7 J | 17 J | 10 J | 7.8 U | 4.8 J | 17 J | 10 J | 8.6 J | 9.7 J | 4.2 J | 7.2 J | 6.9 U |
| Dibenzofuran | 132-64-9 | ug/kg | 3.7 | 16 | 6.5 | 4.1 | 2.8 J | 86 | 3.9 | 3.3 | 5.3 | 3.4 | 6.8 | 2.4 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.45 J | 0.32 | 0.24 U | 0.17 U | 0.14 J | 0.26 U | 0.28 U | 0.29 U | 0.23 U | 0.36 U | 0.23 U | 0.27 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.16 U | 0.27 U | 0.26 U | 0.38 U | 0.16 U | 0.14 U | 15 U | 0.17 U | 0.16 U | 0.25 U | 0.14 U | 0.25 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 33 U | 150 U | 170 U | 180 U | 33 U | 150 U | 170 U | 180 U | 170 U | 35 U | 150 U | 160 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.18 U | 0.16 U | 0.19 U | 0.19 U | 0.19 U | 0.16 U | 0.19 U | 0.2 U | 0.19 U | 0.2 U | 0.16 U | 0.17 U |
| Isophorone | 78-59-1 | ug/kg | 1.2 U | 5 U | 5.9 U | 6 U | 1.2 U | 5 U | 5.8 U | 5.9 U | 5.7 U | 1.3 U | 5 U | 5.3 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.5 U | 11 U | 13 U | 14 U | 2.5 U | 11 U | 13 U | 13 U | 13 U | 2.7 U | 11 U | 12 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.8 U | 31 U | 36 U | 37 U | 7 U | 31 U | 36 U | 36 U | 35 U | 7.4 U | 31 U | 32 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 2.1 J | 8 U | 9.3 U | 9.6 U | 1.9 U | 8 U | 9.3 U | 9.4 U | 9.1 U | 2 U | 8 U | 8.4 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.7 U | 12 U | 14 U | 15 U | 2.8 U | 12 U | 14 U | 15 U | 14 U | 2.9 U | 12 U | 13 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G636 | LW3-G637-1 | LW3-G637-2 | LW3-G638 | LW3-G639 | LW3-G641-1 | LW3-G641-2 | LW3-G642 | LW3-G643 | LW3-G644 | LW3-G646 | LW3-G647 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 24 | 0 - 25 | 0 - 29 | 0 - 24 | 0 - 30 | 0 - 26 | 0 - 23 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 12 U | 3.8 U | 3.1 UT | 1.4 U | 3.7 U | 6.5 U | 1.3 U | 1.3 U | 1.4 U | 12 U | 1.3 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 6.5 U | 2.3 U | 1.3 UT | 1.4 U | 40 U | 4.8 U | 1.3 U | 1.3 U | 5.1 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 16 U | 7.3 U | 5.5 UT | 7.1 U | 12 U | 9.7 U | 1.3 U | 1.3 U | 11 U | 18 U | 1.3 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 6.8 U | 2.3 U | 1.5 UT | 1.5 U | 1.6 U | 2.9 U | 2.5 U | 1.3 U | 3.2 U | 4.9 U | 1.3 U | 11 J |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.4 U | 1.3 U | 1.3 UT | 1.4 U | 1.3 U | 1.5 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 7.8 NJ | 11 | 9.4 JT | 8.2 | 5.2 U | 11 J | 9.2 | 1.3 U | 13 J | 9.3 J | 1.3 U | 15 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 11 | 13 J | 12 T | 11 | 4.4 | 5.7 J | 4.8 | 1.3 U | 14 | 13 | 1.3 U | 9.3 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.4 U | 1.3 U | 1.3 UT | 1.4 U | 1.3 U | 1.5 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.4 U | 1.3 U | 1.3 UT | 1.4 U | 1.3 U | 1.5 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 18.8 JT | 24 JT | 21.4 JT | 19.2 T | 4.4 T | 16.7 JT | 14 T | 1.3 UT | 27 JT | 22.3 JT | 1.3 UT | 35.3 JT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | 109 J | 117 JT | 80.8 | | | | | 63 J | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.49 | 1.47 | 1.45 T | 0.88 | 1.48 | 1.36 | 1.46 T | 1.56 | 1.44 | 1.47 | 1.61 | 1.53 |
| Sulfide | 18496-25-8 | mg/kg | | 3.4 | 0.4 UT | 0.5 U | | | | | 1.1 J | | | |
| Total organic carbon | TOC | percent | 1.45 | 1.73 | 1.57 T | 1.69 | 2.16 | 1.93 | 1.11 | 0.19 | 1.43 | 1.31 | 0.23 | 1.09 |
| Total solids | TSO | percent | 47.7 | 50.3 | 49.8 T | 48.1 | 51.5 T | 44.3 | 57.6 T | 73.5 | 49.4 | 51.4 | 72.3 | 55.1 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | 0.00197 JA | 0.637 A | 0.473 JA | 0.00217 JA | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.47 | 0.13 | 0.18 T | 0.04 | 2.45 | 0 | 1.22 | 0.24 | 0.11 | 0.02 | 5.98 | 4.82 |
| Fine gravel | GS_FG | percent | 0.07 | 0.61 | 0.64 T | 0.6 | 2.65 | 0.83 | 1.5 | 1.4 | 0.65 | 0.21 | 3.63 | 9.71 |
| Very coarse sand | GS_VCS | percent | 0.41 | 0.71 | 0.655 T | 0.66 | 2.58 | 1.05 | 2.3 | 3.25 | 0.98 | 0.59 | 1.63 | 4.47 |
| Coarse sand | GS_CS | percent | 5.22 | 1.37 | 1.31 T | 0.91 | 9.42 | 2.74 | 21.2 | 35.3 | 1.17 | 6.93 | 15.3 | 11 |
| Medium sand | GS_MS | percent | 24.7 | 9.48 | 9.19 T | 3.91 | 12.6 | 5.87 | 37.6 | 51.6 | 2.35 | 17.4 | 54.2 | 23.6 |
| Fine sand | GS_FS | percent | 12.7 | 10.5 | 10.7 T | 9.45 | 2.53 | 4.41 | 3.67 | 3.02 | 13.8 | 10.9 | 12.4 | 6.67 |
| Very fine sand | GS_VFS | percent | 14.6 | 21.2 | 22.3 T | 24.1 | 5.86 | 7.97 | 4.07 | 0.57 | 35.8 | 17.3 | 0.95 | 4.78 |
| Fines | GS_FINES | percent | 46.6 T | 56.6 T | 55.2 T | 45.9 T | 68.3 T | 79.7 T | 32.4 T | 4.7 T | 44.6 T | 48.5 T | 5.65 T | 42.7 T |
| Coarse silt | GS_CSILT | percent | 15 | 27.1 | 25.4 T | 26.2 | 16.2 | 20.2 | 6.77 | 0.76 | 22.4 | 13.1 | 0.81 | 7.5 |
| Medium silt | GS_MSILT | percent | 12.3 | 10.3 | 10.8 T | 2.85 | 17.5 | 21.7 | 9.83 | 1.06 | 7.56 | 14.3 | 1.48 | 12.3 |
| Fine silt | GS_FSILT | percent | 7.58 | 5.12 | 6.24 T | 2.09 | 17.2 | 13 | 5.98 | 0.72 | 4.65 | 6.25 | 1.25 | 8.14 |
| Very fine silt | GS_VFSILT | percent | 3.22 | 4.09 | 3.21 T | 4.44 | 1.04 | 6.2 | 4.7 | 1.04 | 3.24 | 5.84 | 1.14 | 5.28 |
| 8-9 Phi clay | GS_CCLAY | percent | 5.28 | 3.91 | 3.23 T | 4.28 | 1.46 | 11.7 | 2.21 | 0.57 | 2.19 | 3.25 | 0.64 | 4.19 |
| >9 Phi clay | GS_MFCLAY | percent | 3.24 | 6.04 | 6.28 T | 6.03 | 14.9 | 6.87 | 2.91 | 0.55 | 4.57 | 5.78 | 0.33 | 5.32 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G636 | LW3-G637-1 | LW3-G637-2 | LW3-G638 | LW3-G639 | LW3-G641-1 | LW3-G641-2 | LW3-G642 | LW3-G643 | LW3-G644 | LW3-G646 | LW3-G647 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 24 | 0 - 25 | 0 - 29 | 0 - 24 | 0 - 30 | 0 - 26 | 0 - 23 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 23300 | 31200 | 31000 T | 27300 | 29700 | 32500 | 19600 | 9090 | 24600 | 26600 | 12000 | 18400 |
| Antimony | 7440-36-0 | mg/kg | 0.35 J | 0.13 J | 0.115 JT | 0.1 J | 0.42 J | 0.42 J | 0.35 J | 0.2 J | 0.18 J | 0.41 J | 0.25 J | 1.08 J |
| Arsenic | 7440-38-2 | mg/kg | 3.8 | 4.14 | 3.9 T | 3.58 | 5.26 | 3.5 | 3.15 | 2.06 | 3.51 | 4.72 | 2.09 | 3.41 |
| Cadmium | 7440-43-9 | mg/kg | 0.206 | 0.219 | 0.203 T | 0.215 J | 0.3 | 0.209 | 0.12 | 0.043 U | 0.255 | 0.197 | 0.047 U | 0.163 |
| Chromium | 7440-47-3 | mg/kg | 18.8 | 27.5 | 25.3 T | 28.9 | 22.8 | 27.1 | 18.5 | 9.37 | 27 | 27.8 | 12.2 | 21.7 |
| Copper | 7440-50-8 | mg/kg | 34.4 | 41.9 J | 42.9 JT | 38.9 | 39.7 | 44.7 | 32.5 | 11 | 81.2 J | 42.7 | 13.9 | 30.1 |
| Lead | 7439-92-1 | mg/kg | 12 | 12.8 J | 12.8 JT | 14 | 24 | 13 | 10 | 3.3 | 19 J | 13 | 3 | 14 |
| Mercury | 7439-97-6 | mg/kg | 0.066 | 0.068 | 0.069 T | 0.075 | 0.288 | 0.076 | 0.036 | 0.021 | 0.112 | 0.093 | 0.022 | 0.051 |
| Nickel | 7440-02-0 | mg/kg | 19.7 | 25.1 J | 23.2 JT | 21.6 | 21.6 | 23.4 | 15.6 | 11.4 | 23.8 J | 21.1 | 14.2 | 17.9 |
| Silver | 7440-22-4 | mg/kg | 0.17 | 0.184 | 0.189 T | 0.17 | 0.32 | 0.29 | 0.13 | 0.05 | 0.164 | 0.23 | 0.06 | 0.16 |
| Zinc | 7440-66-6 | mg/kg | 98.3 | 117 | 119 T | 106 | 98.5 | 106 | 88.3 | 54.6 | 142 | 114 | 54.9 | 111 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 8.7 | 24 | 11 T | 6.7 | 4100 | 6.9 | 92 | 0.32 J | 18 | 9.7 | 0.97 J | 16 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 14 | 34 | 24 T | 14 | 1400 | 10 | 56 | 0.49 J | 37 | 17 | 2.4 J | 37 |
| Acenaphthene | 83-32-9 | ug/kg | 32 | 91 | 30 T | 15 | 19000 | 23 | 1600 | 0.57 J | 49 | 56 | 1.1 J | 140 |
| Acenaphthylene | 208-96-8 | ug/kg | 15 | 11 | 15 T | 16 | 4000 | 15 | 210 | 1 J | 25 | 10 | 4.1 | 95 |
| Anthracene | 120-12-7 | ug/kg | 32 | 81 | 62 T | 30 | 28000 | 48 | 1000 | 1.3 J | 120 | 35 | 3.3 | 120 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 88 | 260 | 220 T | 130 | 32000 | 140 | 2400 | 5.5 | 370 | 140 | 37 | 810 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 150 | 280 | 250 T | 180 | 41000 | 210 | 3200 | 9.2 | 390 | 180 | 63 | 1200 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 160 | 450 | 590 T | 180 | 37000 | 210 | 3100 | 9.6 | 480 | 210 | 58 | 1200 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 100 | 250 | 330 T | 130 | 22000 J | 140 | 1800 | 6.9 | 280 | 120 | 40 | 710 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 130 | 190 | 180 T | 150 | 31000 | 190 | 2400 | 8.4 | 260 | 150 | 54 | 970 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 51 | 140 | 160 T | 62 | 9700 | 65 | 990 | 3.5 | 170 | 67 | 18 | 320 |
| Chrysene | 218-01-9 | ug/kg | 110 | 400 | 580 T | 160 | 39000 | 200 | 2500 | 7.8 | 440 | 160 | 48 | 790 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 17 | 37 | 39 T | 20 | 3500 | 22 | 280 | 1.2 J | 52 | 23 | 6 | 110 |
| Dibenzothiophene | 132-65-0 | ug/kg | 10 | 53 | 19 T | 8.2 | 10000 | 14 | 480 | 0.28 J | 31 | 13 | 0.54 J | 80 |
| Fluoranthene | 206-44-0 | ug/kg | 180 | 770 | 830 T | 240 | 100000 | 260 | 6100 | 11 | 800 | 270 | 23 | 1500 |
| Fluorene | 86-73-7 | ug/kg | 14 | 110 | 40 T | 16 | 9800 | 15 | 600 | 0.62 J | 59 | 49 | 0.94 J | 96 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 120 | 190 | 180 T | 140 | 29000 | 170 | 2300 | 8 | 270 | 150 | 53 | 910 |
| Naphthalene | 91-20-3 | ug/kg | 40 | 75 | 59 T | 54 | 1800 | 30 | 130 | 1.5 J | 110 | 40 | 9.4 | 150 |
| Perylene | 198-55-0 | ug/kg | 63 | 110 | 101 T | 64 | 9700 | 79 | 830 | 4.2 | 120 | 72 | 16 | 320 |
| Phenanthrene | 85-01-8 | ug/kg | 110 | 660 | 240 T | 99 | 95000 | 140 | 4000 | 3.3 | 430 | 140 | 4.8 | 750 |
| Pyrene | 129-00-0 | ug/kg | 190 | 590 | 590 T | 270 | 120000 | 320 | 6600 | 15 | 700 | 290 | 38 | 1900 |
| High Molecular Weight PAH | HPAH | ug/kg | 1200 T | 3300 T | 3600 T | 1500 T | 440000 T | 1800 T | 30000 T | 79 JT | 3900 T | 1600 T | 400 T | 9700 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 260 T | 1100 T | 470 T | 240 T | 160000 T | 280 T | 7600 T | 8.8 JT | 830 T | 350 T | 26 JT | 1400 T |
| Total PAHs | 130498-29-2 | ug/kg | 1500 T | 4400 T | 4100 T | 1800 T | 600000 T | 2100 T | 37000 T | 88 JT | 4800 T | 2000 T | 420 JT | 11000 T |
| C1-Chrysene | C1_218-01-9 | ug/kg | 71 | 160 | 190 T | 93 | 12000 | 100 | 930 | 4.4 | 300 | 110 | 28 | 330 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 5.3 | 20 | 10 T | 7.7 | 1100 | 6.7 | 65 | 0.21 U | 20 | 24 | 1.3 J | 25 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 79 | 280 | 320 T | 140 | 27000 J | 130 | 2000 | 6.2 | 420 | 140 | 30 | 640 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 8.8 | 47 | 22 T | 10 | 6500 | 13 | 280 | 0.67 J | 33 | 18 | 1 J | 54 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 53 | 160 | 95 T | 47 | 30000 J | 83 | 1400 | 2.1 J | 160 | 100 | 4.3 | 400 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 49 | 88 | 100 T | 63 | 4200 | 55 | 320 | 2.2 J | 190 | 71 | 16 | 140 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 17 | 57 | 29 T | 16 | 5600 | 24 | 220 | 0.21 U | 59 | 74 | 3.6 | 87 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 45 | 130 | 150 T | 79 | 7400 | 70 | 640 | 3.4 | 210 | 81 | 20 | 190 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 12 | 50 | 30 T | 15 | 4900 | 18 | 230 | 0.99 J | 43 | 28 | 2.1 J | 76 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 15 | 65 | 29 T | 19 | 11000 | 22 | 480 | 0.82 J | 55 | 45 | 1.8 J | 74 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 48 | 190 | 140 T | 67 | 15000 | 67 | 640 | 2.4 J | 200 | 110 | 10 | 250 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 30 | 54 | 67 T | 42 | 2000 | 34 | 170 | 0.25 U | 120 | 47 | 9.4 | 63 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 14 | 45 | 38 T | 28 | 2900 | 22 | 180 | 0.21 U | 79 | 150 | 3.7 | 78 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 30 | 68 | 66 T | 44 | 3200 | 37 | 220 | 1.9 J | 110 | 56 | 11 | 94 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 18 | 62 | 39 T | 25 | 4900 | 23 | 260 | 0.5 U | 62 | 54 | 4.9 | 86 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 10 | 76 | 15 T | 11 | 9000 | 15 | 500 | 0.47 J | 55 | 42 | 1 J | 120 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 35 | 130 | 130 T | 81 | 7000 | 52 | 400 | 2.5 J | 150 | 140 | 18 | 160 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 12 | 18 | 27 T | 17 | 870 | 9.4 | 66 | 0.25 U | 46 | 23 | 0.25 U | 39 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 12 | 49 | 19 T | 13 | 4600 | 14 | 250 | 0.75 J | 34 | 46 | 0.37 U | 78 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 20 | 44 | 33 T | 23 | 3200 | 27 | 190 | 0.75 U | 73 | 54 | 7.5 | 50 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | 4.93 U | 4.92 U | 8.65 | 4.98 U | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | 4.93 U | 19.6 | 21.8 | 4.98 U | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | 4.93 U | 8.96 | 8.85 | 4.98 U | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | 9.87 U | 49 | 35.1 | 9.96 U | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | 9.87 U | 59.9 | 52.4 | 9.96 U | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | 9.87 U | 14.7 UJ | 12.5 | 9.96 U | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | 9.87 U | 9.84 U | 9.7 U | 9.96 U | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G636 | LW3-G637-1 | LW3-G637-2 | LW3-G638 | LW3-G639 | LW3-G641-1 | LW3-G641-2 | LW3-G642 | LW3-G643 | LW3-G644 | LW3-G646 | LW3-G647 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 24 | 0 - 25 | 0 - 29 | 0 - 24 | 0 - 30 | 0 - 26 | 0 - 23 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | 21.3 | 171 | 139 | 24.5 | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | 9.87 U | 9.84 U | 9.7 U | 9.96 U | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | 9.87 U | 9.84 U | 9.7 U | 9.96 U | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | 9.87 U | 83.4 | 65.7 | 9.96 U | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | 7.53 | 93.4 | 76.2 | 8.59 | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | 4.93 U | 82 | 51.2 | 5.88 | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | 10.3 | 132 | 86.9 | 12.7 | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | 5.22 | 100 | 53 | 6.37 | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | 9.04 | 111 | 85.5 | 10.4 | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | 5.44 | 80.8 | 59.4 | 7.18 | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | 4.93 U | 25.2 | 13.9 | 4.98 U | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | 4.93 U | 28.8 | 20 | 4.98 U | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | 4.93 U | 48.1 | 32.1 | 4.98 U | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | 17.3 | 241 | 214 | 20.2 | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | 13 | 201 | 150 | 17.8 | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | 4.93 U | 5.76 | 5.45 | 4.98 U | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | 6.93 | 94.2 | 80.2 | 8.14 | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | 4.93 U | 37.1 | 31.7 | 4.98 U | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | 17.5 | 240 | 210 | 19.2 | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | 5.57 | 89.9 | 70.2 | 6.44 | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | 19.7 | 325 | 275 | 23.8 | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | 17.3 | 344 | 216 | 22.4 | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | 4.93 U | 39.8 | 24.3 | 4.98 U | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | 4.93 U | 22.7 | 15.1 | 4.98 U | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | 16.5 | 306 | 272 | 17.2 | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | 4.93 U | 54.6 | 52 | 4.98 U | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | 4.93 U | 7.17 | 4.85 U | 4.98 U | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | 5.35 | 94.1 | 127 | 5.63 | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | 22.2 | 437 | 314 | 30.6 | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | 5.54 | 102 | 82.1 | 5.82 | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | 4.93 U | 26.7 | 26.4 | 4.98 U | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | 4.93 U | 8.68 | 4.85 U | 4.98 U | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | 10.7 | 203 | 138 | 14 | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | 23.7 | 424 | 320 | 30.5 | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | 4.93 U | 14.2 | 10.7 | 4.98 U | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | 19 | 327 | 264 | 22.4 | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | 4.93 U | 10.5 | 8.5 | 4.98 U | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | 4.93 U | 6.04 | 7.25 | 4.98 U | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | 4.93 U | 18.9 | 6.44 | 4.98 U | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | 8.44 | 152 | 117 | 11.2 | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | 3.42 U | 49 | 30.9 | 3.72 U | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | 4.93 U | 10 | 7.32 | 4.98 U | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | 0.788 U | 3.72 U | 0.874 J | 0.673 U | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | 4.93 U | 129 | 52.2 | 5.35 | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | 21.3 | 413 | 249 | 21.8 | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | 6.1 | 106 | 82.4 | 6.43 | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | 12.1 | 278 | 178 | 15.8 | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | 9.67 | 154 | 119 | 10.2 | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | 4.93 U | 8.93 | 5.52 | 4.98 U | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | 60.9 | 1020 | 709 | 56.6 | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G636 | LW3-G637-1 | LW3-G637-2 | LW3-G638 | LW3-G639 | LW3-G641-1 | LW3-G641-2 | LW3-G642 | LW3-G643 | LW3-G644 | LW3-G646 | LW3-G647 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 24 | 0 - 25 | 0 - 29 | 0 - 24 | 0 - 30 | 0 - 26 | 0 - 23 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | 4.93 U | 18.1 | 10.4 | 4.98 U | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | 40.7 | 777 | 523 | 43 | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | 4.93 U | 11.4 | 8.78 | 4.98 U | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | 9.31 UJ | 228 | 144 | 13.1 | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | 33.3 | 431 | 294 | 25.1 | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | 4.93 U | 59.1 | 40 | 4.98 U | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | 4.93 U | 27.7 | 27 | 4.98 U | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.87 | 4.98 U | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | 12.6 | 306 | 149 | 15.1 | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | 37.9 | 762 | 483 | 44.5 | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | 4.93 U | 54 | 42.7 | 4.98 U | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | 4.93 U | 48.7 | 27.9 | 4.98 U | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | 49.8 | 1040 | 719 | 57.4 | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | 4.93 U | 18.4 | 7.1 | 4.98 U | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | 4.93 U | 5.48 | 4.85 U | 4.98 U | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | 1.41 U | 18.1 | 8.12 | 0.999 U | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | 4.93 U | 32.2 | 29.4 | 4.98 U | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.87 | 4.98 U | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | 4.93 U | 10.2 | 6.02 | 4.98 U | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | 2.25 U | 12.2 | 8.02 | 1.81 U | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | 4.93 U | 25.6 | 20.3 | 4.98 U | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | 0.862 U | 5.92 | 4.45 J | 1.03 U | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | 9.2 | 177 | 124 | 9.37 | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | 4.93 U | 49.9 | 33.9 | 4.98 U | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | 7.38 | 76.9 | 61 | 5 J | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | 24.6 | 372 | 277 | 23.3 | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | 4.93 U | 52.8 | 36.2 | 4.98 U | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | 5.27 | 76.3 | 45.6 | 4.98 U | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | 19.8 | 141 | 188 | 13.2 | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | 15.8 | 210 | 176 | 12.5 | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | 4.93 U | 70.2 | 29.9 | 4.98 U | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | 103 | 1480 | 1170 | 82.2 | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | 106 | 931 | 1210 | 76.7 | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | 4.93 U | 8.86 | 12.5 | 4.98 U | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | 19.5 | 384 | 231 | 16.5 | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | 4.93 U | 46.6 | 63.2 | 4.98 U | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | 30.7 | 263 | 219 | 16.9 | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | 4.93 U | 37.1 | 44 | 4.98 U | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | 4.93 U | 6.81 | 7.06 | 4.98 U | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | 4.93 U | 4.92 U | 5.96 | 4.98 U | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | 35.9 | 19.8 | 376 | 26.4 | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | 143 | 1830 | 1270 | 88.1 | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | 5.84 UJ | 36.1 | 40.6 | 4.98 U | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | 8.06 | 128 | 86 | 6.87 | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | 1.57 J | 25.2 | 15.2 | 1.71 J | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | 8.82 | 151 | 110 | 8.69 | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | 3.49 J | 53.4 | 38.9 | 2.75 J | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | 0.563 U | 1.47 U | 1.29 U | 0.695 U | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | 45.4 | 735 | 457 | 29.1 | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | 10.5 | 178 | 124 | 7.08 | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | 7.35 | 107 | 78.2 | 4.98 U | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | 4.93 U | 16.1 | 11.4 | 4.98 U | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | 41.3 | 704 | 524 | 31.3 | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | 4.93 U | 29.1 | 23.2 | 4.98 U | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | 8.63 | 89.6 | 68.8 | 5.2 | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | 25.9 | 455 | 305 | 17.6 | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | 13.1 | 161 | 115 | 9.27 | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G636 | LW3-G637-1 | LW3-G637-2 | LW3-G638 | LW3-G639 | LW3-G641-1 | LW3-G641-2 | LW3-G642 | LW3-G643 | LW3-G644 | LW3-G646 | LW3-G647 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 24 | 0 - 25 | 0 - 29 | 0 - 24 | 0 - 30 | 0 - 26 | 0 - 23 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | 25.7 | 353 | 241 | 18 | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | 123 | 1700 | 1170 | 75.2 | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | 77.3 | 969 | 690 | 54.9 | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | 32.8 | 454 | 297 | 21.9 | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | 4.93 U | 81.6 | 59.1 | 4.98 U | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | 1.91 J | 25.9 | 17.5 | 1.37 J | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | 10.4 | 149 | 101 | 6.99 | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | 4.93 U | 25.5 | 18.6 | 4.98 U | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | 6.19 | 78.1 | 57.9 | 4.98 U | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | 28.3 | 360 | 284 | 17.5 | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | 11.5 | 178 | 121 | 7.73 | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | 37.4 | 461 | 337 | 26.4 | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | 4.93 U | 15.1 | 11 | 4.98 U | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | 4.93 U | 59.3 | 17.8 | 4.98 U | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | 33.3 | 460 | 322 | 28.3 | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | 4.93 U | 52.1 | 39.5 | 4.98 U | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | 4.93 U | 59.3 | 38.8 | 4.98 U | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | 5.84 | 102 | 64.5 | 4.98 U | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | 4.93 U | 4.92 U | 4.85 U | 4.98 U | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | 4.93 U | 17.5 | 14 | 4.98 U | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | 12 | 576 | 326 | 11.8 | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | 4.93 U | 31.8 | 25.2 | 4.98 U | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | 4.93 U | 209 | 118 | 4.98 U | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | 8.86 | 609 | 291 | 9.37 | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | 1660 JT | 27100 T | 20100 JT | 1410 JT | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | 0.00197 JT | 0.637 T | 0.473 JT | 0.00217 JT | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | 4.93 UT | 28.6 T | 39.3 T | 4.98 UT | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | 21.3 T | 363 T | 305 T | 24.5 T | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | 74.8 T | 1240 T | 928 T | 97.3 T | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | 172 T | 3350 T | 2630 JT | 209 T | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | 284 T | 6000 T | 3960 JT | 314 T | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | 542 JT | 6630 T | 5870 T | 390 JT | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | 429 JT | 6310 T | 4360 T | 278 JT | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | 116 T | 1760 T | 1250 T | 79.9 T | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | 12 T | 817 T | 469 T | 11.8 T | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 1.2 J | 0.98 J | 0.73 JT | 0.73 U | 5.9 NJ | 1.7 | 1.1 | 0.16 U | 0.89 NJ | 0.86 J | 1.4 J | 1.9 |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.048 U | 0.21 U | 0.24 UT | 0.64 U | 0.23 U | 0.052 U | 0.25 J | 0.046 U | 0.047 U | 0.28 U | 0.046 U | 0.2 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.83 | 1.5 | 1.1 JT | 1.3 J | 13 U | 0.82 U | 0.38 U | 0.061 U | 1.4 J | 1.2 J | 0.17 U | 0.94 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 2 | 2.5 | 2.1 T | 2.4 | 12 J | 4.6 | 2.8 | 0.37 J | 2.4 | 2.7 | 0.58 | 6.8 |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.5 J | 3 J | 2 JT | 2.3 J | 0.14 U | 3.1 | 1.8 J | 0.29 J | 1.9 J | 2.6 J | 0.24 | 3.9 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 4.5 NJ | 5 J | 2.2 JT | 1.8 J | 4.1 | 12 | 0.48 U | 0.18 U | 1.3 U | 1.7 U | 0.33 J | 3.1 |
| Aldrin | 309-00-2 | ug/kg | 0.13 U | 0.35 U | 0.37 UT | 0.4 U | 1.4 U | 0.14 U | 0.53 | 0.12 U | 0.43 U | 0.4 U | 0.12 U | 0.6 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.13 J | 0.14 NJ | 0.15 JT | 0.11 J | 6.5 | 0.071 NJ | 0.2 U | 0.037 U | 0.16 J | 0.12 J | 0.037 U | 0.19 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.11 U | 0.097 U | 0.097 UT | 0.11 U | 0.6 NJ | 0.17 J | 0.097 U | 0.097 U | 0.098 U | 0.2 U | 0.097 U | 0.49 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.12 U | 0.072 NJ | 0.18 UT | 0.18 U | 1.5 U | 0.035 U | 0.2 U | 0.031 U | 0.23 U | 0.19 NJ | 0.031 U | 0.91 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.15 U | 0.14 U | 0.15 UT | 0.17 U | 4.3 U | 0.21 U | 0.14 U | 0.14 U | 0.17 U | 0.14 U | 0.14 U | 0.7 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.033 U | 0.15 U | 0.11 UT | 0.072 U | 0.16 U | 0.035 U | 0.031 U | 0.031 U | 0.18 U | 0.034 U | 0.031 U | 0.2 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.59 U | 0.81 U | 0.75 UT | 0.74 U | 8.7 U | 0.39 U | 0.25 J | 0.087 U | 0.94 U | 0.88 U | 0.37 U | 0.54 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.12 U | 0.11 U | 0.11 UT | 0.21 U | 1.4 U | 0.13 U | 0.2 U | 0.11 U | 0.12 U | 0.11 U | 0.11 U | 0.55 U |
| Dieldrin | 60-57-1 | ug/kg | 0.42 | 0.21 U | 0.2 UT | 0.33 U | 1.9 U | 0.47 J | 0.55 J | 0.079 J | 0.21 U | 0.25 | 0.1 NJ | 0.91 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.21 U | 0.2 U | 0.2 UT | 0.23 U | 1.7 U | 0.066 U | 0.2 U | 0.058 U | 0.21 U | 0.2 U | 0.058 U | 0.29 U |
| Endrin | 72-20-8 | ug/kg | 0.21 U | 0.2 U | 0.2 UT | 0.074 U | 2.5 NJ | 0.08 U | 0.18 U | 0.071 U | 0.21 U | 0.96 U | 0.071 U | 0.36 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.21 U | 0.28 U | 0.19 UT | 0.3 U | 4.6 U | 0.048 U | 0.39 U | 0.1 NJ | 0.043 U | 0.39 U | 0.075 U | 0.21 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.21 U | 0.34 U | 0.31 UT | 0.25 U | 3.1 U | 0.24 U | 0.19 U | 0.029 U | 0.49 U | 0.38 U | 0.17 U | 0.4 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.52 J | 0.26 U | 0.36 UT | 0.39 U | 4.7 J | 1.5 NJ | 0.64 U | 0.062 U | 0.51 U | 0.24 U | 0.2 U | 0.91 U |
| Heptachlor | 76-44-8 | ug/kg | 0.08 U | 0.2 U | 0.2 UT | 0.079 U | 2.6 U | 0.23 U | 0.076 U | 0.076 U | 0.21 U | 0.2 U | 0.076 U | 0.38 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.31 | 0.2 U | 0.2 UT | 0.23 U | 0.34 U | 0.25 U | 0.14 U | 0.1 J | 0.21 U | 0.2 U | 0.086 J | 0.39 NJ |
| Methoxychlor | 72-43-5 | ug/kg | 0.46 U | 2.7 U | 1.6 UT | 1.1 U | 2.2 U | 0.71 U | 0.37 U | 0.075 U | 1.5 U | 0.57 U | 0.18 U | 0.81 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G636 | LW3-G637-1 | LW3-G637-2 | LW3-G638 | LW3-G639 | LW3-G641-1 | LW3-G641-2 | LW3-G642 | LW3-G643 | LW3-G644 | LW3-G646 | LW3-G647 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 24 | 0 - 25 | 0 - 29 | 0 - 24 | 0 - 30 | 0 - 26 | 0 - 23 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.13 U | 0.12 U | 0.12 UT | 0.13 U | 5.1 | 0.14 U | 0.12 U | 0.12 U | 0.13 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.21 U | 0.13 U | 0.33 UT | 0.25 U | 1.8 U | 0.069 U | 0.2 U | 0.061 U | 0.62 U | 0.2 U | 0.077 J | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.14 JT | 0.55 JT | 0.51 T | 0.6 JT | 8.7 UT | 0.56 JT | 0.45 JT | 0.054 JT | 0.75 JT | 0.7 JT | 0.15 JT | 0.84 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.13 JT | 0.21 JT | 0.15 JT | 0.11 JT | 6.5 T | 0.071 JT | 0.2 UT | 0.058 UT | 0.16 JT | 0.31 JT | 0.058 UT | 0.91 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 3.2 JT | 3.5 JT | 2.8 JT | 2.4 T | 18 JT | 6.3 T | 3.9 T | 0.37 JT | 3.3 JT | 3.6 JT | 2 JT | 8.7 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 10 JT | 13 JT | 8.1 JT | 7.8 JT | 22 JT | 21 T | 6 JT | 0.66 JT | 6.6 JT | 7.4 JT | 2.6 JT | 16 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.5 JT | 3 JT | 2 JT | 2.3 JT | 0.23 UT | 3.1 T | 2.1 JT | 0.29 JT | 1.9 JT | 2.6 JT | 0.24 T | 3.9 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 5.3 JT | 6.5 JT | 3.3 JT | 3.1 JT | 4.1 T | 12 T | 0.48 UT | 0.18 UT | 1.4 JT | 1.2 JT | 0.33 JT | 3.1 T |
| Toxaphene | 8001-35-2 | ug/kg | 29 U | 47 U | 38 UT | 46 U | 220 U | 43 U | 23 U | 3.7 U | 44 U | 35 U | 9.9 U | 21 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.21 U | 0.55 J | 0.51 T | 0.49 | 1 U | 0.31 J | 0.2 U | 0.054 J | 0.54 | 0.55 | 0.068 J | 0.84 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.14 J | 0.14 U | 0.12 UT | 0.11 NJ | 1 U | 0.25 J | 0.2 J | 0.034 U | 0.21 NJ | 0.15 J | 0.034 U | 0.2 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 73 J | 68 J | 69.5 JT | 70 J | 3500 J | 130 J | 940 J | 5.5 U | 110 J | 84 J | 50 J | 83 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 56 J | 50 J | 50 JT | 47 J | 1900 J | 99 J | 500 J | 6.7 U | 76 J | 57 J | 13 J | 61 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 370 J | 330 J | 360 JT | 370 J | 3400 J | 590 J | 1100 J | 21 J | 420 J | 370 J | 94 J | 290 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 200 J | 180 J | 190 JT | 180 J | 1400 J | 320 J | 400 J | 19 J | 240 J | 220 J | 28 J | 150 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 443 JA | 398 JA | 430 JA | 440 JA | 6900 JA | 720 JA | 2040 JA | 21 JA | 530 JA | 454 JA | 144 JA | 373 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 256 JA | 230 JA | 240 JA | 227 JA | 3300 JA | 419 JA | 900 JA | 19 JA | 316 JA | 277 JA | 41 JA | 211 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.44 U | 10 U | 0.51 UT | 0.43 U | 1.7 U | 0.44 U | 0.36 U | 0.29 U | 2.5 U | 0.41 U | 0.28 U | 0.38 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.36 U | 0.34 U | 1.6 NJT | 0.35 U | 6.9 U | 0.36 U | 0.29 U | 0.23 U | 0.35 U | 0.33 U | 0.23 U | 0.3 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.2 U | 1.1 U | 1.1 UT | 1.2 U | 1 U | 1.2 U | 0.94 U | 0.75 U | 1.2 U | 1.1 U | 0.73 U | 0.97 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.23 U | 0.22 U | 0.22 UT | 0.31 U | 0.2 U | 0.24 U | 0.19 U | 0.15 U | 0.23 U | 0.22 U | 0.15 U | 0.34 J |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.1 U | 2 U | 2 UT | 1.1 U | 10 U | 5.7 U | 10 U | 1 U | 2.1 U | 1 U | 1 U | 5 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.8 U | R | R | 5.7 U | 55 U | 31 U | R | 5.5 U | R | 5.5 U | 5.5 U | 28 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 18 U | 34 U | 34 UT | 18 U | 170 U | 96 U | 170 U | 17 U | 35 U | 17 U | 17 U | 85 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.1 U | 4 U | 4 UT | 2.1 U | 20 U | 12 U | 20 U | 2 U | 4.1 U | 2 U | 2 U | 10 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.6 U | 3 U | 3 UT | 1.6 U | 15 U | 8.5 U | 15 U | 1.5 U | 3.1 U | 1.5 U | 1.5 U | 7.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.6 U | 3 U | 3 UT | 1.6 U | 15 U | 8.5 U | 15 U | 1.5 U | 3.1 U | 1.5 U | 1.5 U | 7.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.5 U | 2.8 U | 2.8 UT | 1.5 U | 14 U | 7.9 U | 14 U | 1.4 U | 2.9 U | 1.4 U | 1.4 U | 7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.5 U | 2.8 U | 2.8 UT | 1.5 U | 14 U | 7.9 U | 14 U | 1.4 U | 2.9 U | 1.4 U | 1.4 U | 7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 2.3 J | 3 U | 3 UT | 9 J | 230 | 14 J | 15 U | 1.5 U | 3.1 U | 9.3 J | 1.5 U | 7.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 19 U | 36 U | 36 UT | 19 U | 180 U | 110 U | 180 U | 18 U | 37 U | 18 U | 18 U | 90 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.34 U | 10 U | 6.4 NJT | 0.48 U | 0.29 U | 0.34 U | 1.3 U | 0.22 U | 9.7 J | 5.7 J | 0.22 U | 0.29 U |
| Phenol | 108-95-2 | ug/kg | 3.8 J | 15 U | 11 UT | 14 U | 20 U | 12 U | 20 U | 2 U | 6.8 U | 5 J | 2 U | 10 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 250 | 100 | 130 T | 110 | 230 | 100 J | 80 J | 13 J | 130 | 280 | 14 J | 120 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 15 | 15 J | 19 JT | 3.4 U | 32 U | 19 U | 32 U | 3.2 U | 16 J | 3.2 U | 3.2 U | 16 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 14 | 16 U | 16 JT | 18 | 79 U | 45 U | 79 U | 10 | 19 J | 31 | 9.9 J | 40 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.2 J | 3.9 J | 3.2 JT | 2.8 J | 13 U | 7.4 U | 13 U | 2.1 J | 3.9 J | 3.2 J | 2 J | 6.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.1 U | 2 U | 2 UT | 1.1 U | 10 U | 5.7 U | 10 U | 1 U | 2.1 U | 1 U | 1 U | 5 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.8 U | 3.4 U | 3.4 UT | 1.8 U | 17 U | 9.6 U | 17 U | 1.7 U | 3.5 U | 1.7 U | 1.7 U | 8.5 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.8 U | 5.2 U | 5.2 UT | 2.7 U | 26 U | 15 U | 26 U | 2.6 U | 5.3 U | 2.6 U | 2.6 U | 13 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3.1 U | 5.8 U | 5.8 UT | 3 U | 29 U | 17 U | 29 U | 2.9 U | 5.9 U | 2.9 U | 2.9 U | 15 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.2 U | 6 U | 6 UT | 3.1 U | 30 U | 17 U | 30 U | 3 U | 6.1 U | 3 U | 3 U | 15 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3.1 U | 5.8 U | 5.8 UT | 3 U | 29 U | 17 U | 29 U | 2.9 U | 5.9 U | 2.9 U | 2.9 U | 15 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.6 U | 3 U | 3 UT | 1.6 U | 15 U | 8.5 U | 15 U | 1.5 U | 3.1 U | 1.5 U | 1.5 U | 7.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.1 U | 4 U | 4 UT | 2.1 U | 20 U | 12 U | 20 U | 2 U | 4.1 U | 2 U | 2 U | 10 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.7 U | 3.2 U | 3.2 UT | 1.7 U | 16 U | 9.1 U | 16 U | 1.6 U | 3.3 U | 1.6 U | 1.6 U | 8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.4 U | 6.4 U | 6.4 UT | 3.4 U | 32 U | 19 U | 32 U | 3.2 U | 6.5 U | 3.2 U | 3.2 U | 16 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.9 U | 7.4 U | 7.4 UT | 3.9 U | 37 U | 21 U | 37 U | 3.7 U | 7.5 U | 3.7 U | 3.7 U | 19 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.7 U | 5 U | 5 UT | 2.6 U | 25 U | 15 U | 25 U | 2.5 U | 5.1 U | 2.5 U | 2.5 U | 13 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.7 U | 3.2 U | 3.2 UT | 1.7 U | 16 U | 9.1 U | 16 U | 1.6 U | 3.3 U | 1.6 U | 1.6 U | 8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2 U | 3.8 U | 3.8 UT | 2 U | 19 U | 11 U | 19 U | 1.9 U | 3.9 U | 1.9 U | 1.9 U | 9.5 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.5 U | 2.8 U | 2.8 UT | 1.5 U | 14 U | 7.9 U | 14 U | 1.4 U | 2.9 U | 1.4 U | 1.4 U | 7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.9 U | 3.6 U | 3.6 UT | 1.9 U | 18 U | 11 U | 18 U | 1.8 U | 3.7 U | 1.8 U | 1.8 U | 9 U |
| Aniline | 62-53-3 | ug/kg | 1.6 U | 17 J | 15 JT | 15 J | 15 U | 8.5 U | 15 U | 1.5 U | 3.1 U | 1.5 U | 1.5 U | 7.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.2 U | 2.2 U | 2.2 UT | 1.2 U | 11 U | 6.2 U | 11 U | 1.1 U | 2.3 U | 1.1 U | 1.1 U | 5.5 U |
| Benzoic acid | 65-85-0 | ug/kg | 110 U | 200 U | 200 UT | 130 J | 960 U | 550 U | 960 U | 96 U | 200 U | 96 U | 96 U | 480 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 4 J | 20 | 9.8 JT | 9 J | 21 U | 12 U | 21 U | 2.1 U | 9.6 J | 3.9 J | 2.1 U | 11 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.6 U | 3 U | 3 UT | 1.6 U | 15 U | 8.5 U | 15 U | 1.5 U | 3.1 U | 1.5 U | 1.5 U | 7.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2 U | 3.8 U | 3.8 UT | 2 U | 19 U | 11 U | 19 U | 1.9 U | 3.9 U | 1.9 U | 1.9 U | 9.5 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.8 U | 5.2 U | 5.2 UT | 2.7 U | 26 U | 15 U | 26 U | 2.6 U | 5.3 U | 2.6 U | 2.6 U | 13 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G636 | LW3-G637-1 | LW3-G637-2 | LW3-G638 | LW3-G639 | LW3-G641-1 | LW3-G641-2 | LW3-G642 | LW3-G643 | LW3-G644 | LW3-G646 | LW3-G647 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 24 | 0 - 25 | 0 - 29 | 0 - 24 | 0 - 30 | 0 - 26 | 0 - 23 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 9.2 J | 51 | 22 JT | 8.1 J | 420 | 15 J | 400 | 1.3 U | 38 | 14 | 1.3 U | 22 J |
| Dibenzofuran | 132-64-9 | ug/kg | 8.9 | 69 | 23 T | 9.3 | 1200 | 5.3 | 76 | 0.59 U | 35 | 34 | 0.59 U | 26 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.25 J | 0.17 J | 0.069 UT | 0.15 U | 1.3 J | 0.79 J | 0.29 U | 0.25 | 0.15 U | 0.2 U | 0.16 J | 0.34 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.15 U | 0.14 U | 0.21 UT | 0.38 U | 0.7 U | 15 U | 0.37 U | 0.14 U | 5.1 U | 0.14 U | 0.25 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 31 U | 58 U | 58 UT | 30 U | 290 U | 170 U | 290 U | 29 U | 59 U | 29 U | 29 U | 150 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.17 U | 0.16 U | 0.16 UT | 0.17 U | 0.8 U | 0.18 U | 0.16 U | 0.16 U | 0.17 U | 0.19 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1.1 U | 2 U | 2 UT | 1.1 U | 10 U | 5.7 U | 10 U | 1 U | 2.1 U | 1 U | 1 U | 5 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.4 U | 4.4 U | 4.4 UT | 2.3 U | 22 U | 13 U | 22 U | 2.2 U | 4.5 U | 2.2 U | 2.2 U | 11 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.4 U | 13 U | 13 UT | 6.3 U | 61 U | 35 U | 61 U | 6.1 U | 13 U | 6.1 U | 6.1 U | 31 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.7 U | 7.8 J | 3.2 UT | 2.7 J | 16 U | 9.1 U | 16 U | 1.6 U | 3.3 U | 1.6 U | 1.6 U | 8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.6 U | 4.8 U | 4.8 UT | 2.5 U | 24 U | 14 U | 24 U | 2.4 U | 4.9 U | 2.4 U | 2.4 U | 12 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G657 | LW3-G658 | LW3-G659-1 | LW3-G659-2 | LW3-G660 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 26 | 0 - 21 | 0 - 26 | 0 - 22 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 20 U | 1.3 U | 34 U | 1.3 U | 1.4 U | 21 U | 7.3 U | 1.3 U | 1.3 U | 2.2 U | 4.5 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 9.5 U | 5.3 U | 1.3 U | 9.7 U | 2.3 U | 5.4 U | 72 U | 4.5 U | 1.3 U | 1.3 U | 3.3 U | 3.6 U | 2.1 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 5.5 U | 21 U | 1.3 U | 24 U | 3.9 U | 7.5 U | 31 U | 8.7 U | 1.3 U | 1.3 U | 1.3 U | 2 U | 2.5 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 4.8 U | 2.5 U | 1.3 U | 16 U | 2.5 U | 3.4 U | 31 U | 4.9 U | 1.3 U | 1.3 U | 1.3 U | 2.5 U | 4.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 7.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 16 | 13 | 1.3 U | 22 U | 5.2 | 6.3 NJ | 64 U | 8.4 | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.7 NJ |
| Aroclor 1260 | 11096-82-5 | ug/kg | 6.3 | 6.3 | 1.3 U | 70 | 1.6 J | 3.4 | 36 | 2.6 J | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 2.1 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 22.3 T | 19.3 T | 1.3 UT | 70 T | 6.8 JT | 9.7 JT | 36 T | 11 JT | 1.3 UT | 1.3 UT | 3.3 UT | 4.5 UT | 3.8 JT |
| **Conventionals** | | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 63.7 J | | | | | 96 J | 66.3 J | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.53 | 1.53 | 1.61 T | 1.47 | 1.79 | 1.42 | 1.55 | 1.67 | 1.96 | 1.98 | 2.01 | 1.92 | 1.83 |
| Sulfide | 18496-25-8 | mg/kg | 0.4 U | | | | | 0.4 U | 6.5 | | | | | | |
| Total organic carbon | TOC | percent | 1.51 | 0.99 | 0.207 T | 1.18 | 0.2 | 2.09 | 1.69 | 0.66 | 0.21 | 0.09 | 0.16 | 0.15 | 0.31 T |
| Total solids | TSO | percent | 56.1 T | 56.4 | 81.2 T | 55.2 | 73.5 | 46.8 | 56.6 | 63 | 75.4 | 76.3 | 78.9 | 75.6 | 72.4 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | 0.82 | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | 0.445 J | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | 7.49 | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | 57.6 | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | 224 | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | 5.97 | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | 5.77 | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | 8.58 | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | 11.5 | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | 13.9 | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | 336 JT | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | 0.0268 U | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | 0.116 J | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | 0.115 J | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | 0.865 J | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | 0.306 J | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | 24.2 | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | 1.65 | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | 1.96 J | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | 0.814 J | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | 2.89 | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | 1.02 J | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | 0.047 J | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | 0.235 J | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | 3.92 | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | 0.769 J | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | 1.49 JT | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | 1.49 JA | | | | | |
| **Grain Size** | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.19 | 0 | 26.2 T | 0.04 | 2.58 | 0.12 | 0.15 | 0.32 | 1.04 | 0.71 | 8.02 | 4.21 | 0.16 |
| Fine gravel | GS_FG | percent | 0.16 | 0.61 | 6.83 T | 0.29 | 1.43 | 0.27 | 0.46 | 0.31 | 1.98 | 1.73 | 3.33 | 3.35 | 1.14 |
| Very coarse sand | GS_VCS | percent | 0.37 | 0.79 | 6.12 T | 0.54 | 2.42 | 1.09 | 1.01 | 0.56 | 6.09 | 3.98 | 4.7 | 5.2 | 4.5 |
| Coarse sand | GS_CS | percent | 2.79 | 8.47 | 36.4 T | 1.12 | 25.5 | 1.08 | 7.58 | 8.08 | 51.1 | 38.9 | 38.1 | 39.5 | 51.9 |
| Medium sand | GS_MS | percent | 38.1 | 40.4 | 23.2 T | 2.17 | 58.9 | 1.57 | 20.8 | 69.6 | 38 | 56.3 | 43.7 | 51.1 | 34.2 |
| Fine sand | GS_FS | percent | 14.4 | 9.09 | 1.27 T | 30.5 | 3.44 | 7.19 | 14.2 | 6.16 | 1.3 | 1.54 | 1.13 | 1.31 | 2.29 |
| Very fine sand | GS_VFS | percent | 6.22 | 7.2 | 0.24 T | 46.7 | 0.64 | 28.1 | 15 | 2.35 | 0.71 | 0.25 | 0.29 | 0.38 | 1.62 |
| Fines | GS_FINES | percent | 38.1 T | 35.1 T | 1.26 T | 23.7 T | 3.64 T | 61.1 T | 45.7 T | 16.3 T | 3.49 T | 1.44 T | 2.16 T | 2.57 T | 6.36 T |
| Coarse silt | GS_CSILT | percent | 11.1 | 9.32 | 0.153 T | 12.3 | 0.41 | 30.2 | 15 | 3.21 | 0.42 | 0.26 | 0.3 | 0.32 | 1 |
| Medium silt | GS_MSILT | percent | 9.21 | 9.88 | 0.26 T | 4.46 | 1.04 | 12.5 | 10.9 | 5.25 | 1.03 | 0.39 | 0.48 | 0.61 | 1.31 |
| Fine silt | GS_FSILT | percent | 6.64 | 6.82 | 0.28 T | 2.38 | 0.79 | 6.98 | 7.25 | 3.07 | 0.81 | 0.24 | 0.47 | 0.65 | 1.26 |
| Very fine silt | GS_VFSILT | percent | 3.79 | 3.85 | 0.29 T | 0.44 | 0.76 | 3.42 | 3.63 | 2.05 | 0.58 | 0.21 | 0.48 | 0.48 | 1.17 |
| 8-9 Phi clay | GS_CCLAY | percent | 2.85 | 2.4 | 0.0433 T | 2.42 | 0.35 | 2.34 | 2.35 | 1.29 | 0.45 | 0.11 | 0.13 | 0.25 | 0.82 |
| >9 Phi clay | GS_MFCLAY | percent | 4.55 | 2.84 | 0.237 T | 1.71 | 0.29 | 5.65 | 6.56 | 1.4 | 0.2 | 0.23 | 0.3 | 0.26 | 0.8 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G657 | LW3-G658 | LW3-G659-1 | LW3-G659-2 | LW3-G660 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 26 | 0 - 21 | 0 - 26 | 0 - 22 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 20500 | 22100 | 7840 T | 22000 | 10900 | 33600 | 25300 | 15000 | 8310 | 8960 | 9310 | 7960 | 10900 |
| Antimony | 7440-36-0 | mg/kg | 0.15 J | 0.27 J | 0.18 JT | 0.31 J | 0.2 J | 0.09 J | 0.16 J | 0.26 J | 0.2 J | 0.19 J | 0.21 J | 0.19 J | 0.22 J |
| Arsenic | 7440-38-2 | mg/kg | 3 | 3.27 | 2.06 T | 4.68 | 2.25 | 3.57 | 3.89 | 2.42 | 2.42 | 2.51 | 2.61 | 2.32 | 3.55 |
| Cadmium | 7440-43-9 | mg/kg | 0.145 | 0.127 | 0.036 UT | 0.184 J | 0.042 U | 0.184 | 0.306 | 0.078 U | 0.043 U | 0.036 U | 0.044 U | 0.04 U | 0.053 |
| Chromium | 7440-47-3 | mg/kg | 20.4 | 21.3 | 8.72 T | 25.3 | 11 | 28.1 | 25.4 | 15.9 | 8.81 | 8.37 | 9.38 | 8.62 | 9.82 |
| Copper | 7440-50-8 | mg/kg | 27.7 J | 24.9 | 10.6 T | 44.1 | 11.9 | 37 J | 35.4 J | 18.3 | 10.3 | 9.83 | 11 | 9.71 | 13.5 |
| Lead | 7439-92-1 | mg/kg | 10.6 J | 7.9 | 2.4 T | 27 | 2.8 | 9.73 J | 31.5 J | 5 | 3.4 | 2.8 | 3.5 | 3 | 12 |
| Mercury | 7439-97-6 | mg/kg | 0.053 | 0.038 | 0.028 JT | 0.134 | 0.019 | 0.053 | 0.125 | 0.022 | 0.015 J | 0.016 | 0.015 J | 0.017 J | 0.117 |
| Nickel | 7440-02-0 | mg/kg | 20.8 J | 18.6 | 10.4 T | 20.9 | 12.5 | 25.5 J | 26.6 J | 16.6 | 11 | 11.1 | 11.2 | 10.8 | 10.2 |
| Silver | 7440-22-4 | mg/kg | 0.135 | 0.13 | 0.04 T | 0.12 | 0.05 | 0.145 | 0.225 | 0.09 | 0.05 | 0.04 | 0.05 | 0.04 | 0.06 |
| Zinc | 7440-66-6 | mg/kg | 97.3 | 88.3 | 43.7 T | 125 | 53.1 | 104 | 190 | 64.4 | 50 | 53.1 | 53.8 | 50 | 73.7 |
| **PAHs** | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 43 J | 28 | 1 J | 15 | 3 | 13 | 120 | 120 | 0.7 J | 3.5 | 0.5 J | 0.97 J | 4.4 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 58 | 15 | 2.1 J | 28 | 4.2 | 22 | 240 | 17 | 0.97 J | 4.4 | 0.65 J | 1.1 J | 5.8 |
| Acenaphthene | 83-32-9 | ug/kg | 720 | 210 | 5.2 | 100 | 71 | 45 | 1200 | 950 | 7 | 60 | 0.84 J | 5.1 | 8.7 |
| Acenaphthylene | 208-96-8 | ug/kg | 140 | 42 | 21 | 15 | 44 | 24 | 220 | 100 | 4 | 11 | 0.31 J | 2 J | 24 |
| Anthracene | 120-12-7 | ug/kg | 1200 | 140 | 21 | 85 | 160 | 80 | 2300 | 760 | 8.9 | 64 | 2.1 J | 4.1 | 54 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 2500 | 320 | 140 | 400 | 570 | 230 | 3600 | 980 | 39 | 140 | 5.1 | 17 | 160 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 3600 | 470 | 210 | 520 | 650 | 370 | 5000 | 1300 | 50 | 160 | 6.3 | 23 | 200 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 3300 | 430 | 180 | 640 | 600 | 340 | 4700 | 1200 | 47 | 140 | 6.5 | 22 | 200 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 2200 | 290 | 130 | 360 | 370 | 240 | 3200 | 740 | 32 | 94 | 4.2 | 15 | 140 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 2900 | 420 | 180 | 400 | 460 | 320 | 4200 | 990 | 42 | 120 | 6 | 21 | 170 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 1000 | 130 | 57 | 200 | 200 | 110 | 1500 | 330 | 15 | 45 | 1.9 J | 6.5 | 58 |
| Chrysene | 218-01-9 | ug/kg | 3100 | 360 | 170 J | 450 | 570 | 290 | 4500 | 1300 | 47 | 160 | 6.5 | 22 | 180 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 360 | 42 | 16 | 71 | 58 | 38 | 510 | 110 | 4.3 | 13 | 0.82 J | 2.3 J | 20 |
| Dibenzothiophene | 132-65-0 | ug/kg | 400 | 97 | 7.9 | 24 | 71 | 27 | 670 | 520 | 5.9 | 28 | 0.83 J | 3.3 | 20 |
| Fluoranthene | 206-44-0 | ug/kg | 5600 | 820 | 280 J | 730 | 1900 | 490 | 8700 | 3500 | 90 | 390 | 12 | 65 | 360 |
| Fluorene | 86-73-7 | ug/kg | 350 | 99 | 3.6 | 81 | 34 | 31 | 1000 | 550 | 3.4 | 26 | 1.1 J | 1.6 J | 12 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 2700 | 380 | 170 | 420 | 450 | 300 | 3800 | 910 | 39 | 110 | 5.7 | 19 | 160 |
| Naphthalene | 91-20-3 | ug/kg | 170 | 36 | 9.3 | 70 | 16 | 61 | 460 | 50 | 3.6 | 15 | 1.7 J | 3.2 | 12 |
| Perylene | 198-55-0 | ug/kg | 960 | 120 | 50 | 150 | 150 | 120 | 1300 | 300 | 13 | 36 | 2.5 J | 6.3 | 54 |
| Phenanthrene | 85-01-8 | ug/kg | 3900 | 760 | 16 | 390 | 520 | 270 | 6900 | 4900 | 19 | 42 | 8.2 | 6.6 | 220 |
| Pyrene | 129-00-0 | ug/kg | 6300 | 990 | 390 J | 680 | 2100 | 560 | 9400 | 4000 | 130 | 460 | 14 | 84 | 450 |
| High Molecular Weight PAH | HPAH | ug/kg | 31000 T | 4400 T | 1800 JT | 4500 T | 7600 T | 3000 T | 46000 T | 15000 T | 500 T | 1700 T | 65 JT | 280 JT | 2000 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 6500 T | 1300 T | 78 JT | 770 T | 850 T | 530 T | 12000 T | 7300 T | 47 JT | 220 T | 15 JT | 24 JT | 340 T |
| Total PAHs | 130498-29-2 | ug/kg | 38000 T | 5700 T | 1900 JT | 5300 T | 8400 T | 3600 T | 58000 T | 22000 T | 550 JT | 2000 T | 80 JT | 310 JT | 2300 T |
| C1-Chrysene | C1_218-01-9 | ug/kg | 1400 | 180 | 72 | 230 | 320 | 190 | 2000 | 470 | 26 | 81 | 4.5 | 8.3 | 97 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 45 J | 13 | 7.1 | 12 | 35 | 11 | 200 | 73 | 3.5 | 18 | 0.21 U | 0.21 U | 5.3 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 2300 | 310 | 150 | 320 | 660 | 250 | 3400 | 1100 J | 46 | 160 | 6.7 | 17 | 150 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 250 | 44 | 13 | 18 | 65 | 25 | 520 | 260 | 5.6 | 34 | 2 J | 2.6 | 15 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 1100 | 270 | 65 | 150 | 490 | 100 | 2000 | 1600 J | 23 | 140 | 5.2 | 8.3 | 130 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 600 | 91 | 32 | 120 | 130 | 100 | 1000 | 240 | 13 | 44 | 0.25 U | 3.9 | 59 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 230 | 51 | 24 | 28 | 110 | 32 | 540 | 250 | 8.9 | 41 | 0.21 U | 0.21 U | 27 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 1000 | 130 | 58 | 150 | 250 | 120 | 1600 | 320 | 21 | 68 | 3.1 | 6 | 76 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 210 | 42 | 24 | 23 | 110 | 29 | 500 | 260 | 8.7 | 48 | 2.4 J | 3.5 | 15 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 330 | 99 | 2.3 J | 48 | 39 | 39 | 580 | 650 | 2.4 J | 36 | 1.3 J | 1.4 J | 22 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 870 | 160 | 69 | 96 | 360 | 130 | 1800 | 730 | 29 | 110 | 3.4 | 7.5 | 85 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 330 | 45 | 15 | 69 | 75 | 59 | 560 | 100 | 6.9 | 24 | 0.25 U | 0.25 U | 45 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 240 | 51 | 14 | 0.21 U | 85 | 43 | 500 | 180 | 5.5 | 24 | 0.21 U | 0.21 U | 21 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 430 | 57 | 27 | 78 | 120 | 66 | 830 | 190 | 11 | 41 | 0.61 U | 2.5 | 51 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 210 | 0.5 U | 23 | 33 | 140 | 37 | 710 | 250 | 11 | 54 | 0.5 U | 3.7 | 21 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 280 | 82 | 12 | 31 | 120 | 24 | 680 | 600 | 3.7 | 57 | 1.2 J | 1.6 J | 19 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 440 | 110 | 52 | 74 | 240 | 76 | 1200 | 400 | 24 | 85 | 0.75 U | 6.7 | 65 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 58 | 21 | 0.25 U | 34 | 34 | 23 | 160 | 43 | 0.25 U | 13 | 0.25 U | 0.25 U | 16 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 150 | 40 | 21 | 26 | 100 | 24 | 540 | 290 | 7 | 59 | 1.1 J | 2.7 | 15 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 220 | 33 | 25 | 32 | 100 | 35 | 430 | 130 | 7.9 | 45 | 0.75 U | 2 J | 35 |
| **PCB Congeners** | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G657 | LW3-G658 | LW3-G659-1 | LW3-G659-2 | LW3-G660 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 26 | 0 - 21 | 0 - 26 | 0 - 22 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G657 | LW3-G658 | LW3-G659-1 | LW3-G659-2 | LW3-G660 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 26 | 0 - 21 | 0 - 26 | 0 - 22 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G657 | LW3-G658 | LW3-G659-1 | LW3-G659-2 | LW3-G660 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 26 | 0 - 21 | 0 - 26 | 0 - 22 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 1.8 | 4.9 U | 0.16 U | 2.2 U | 0.33 U | 1.2 U | 28 | 1.2 J | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.29 J |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.45 J | 0.46 U | 0.046 U | 0.046 U | 0.2 U | 0.22 U | 3.1 U | 0.2 U | 0.06 J | 0.046 U | 0.046 U | 0.046 U | 0.046 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.43 U | 4.8 U | 0.061 U | 4.3 NJ | 0.61 U | 0.77 U | 1.8 U | 0.78 J | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.14 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 6.4 | 5.3 | 0.14 U | 2.6 | 0.82 J | 5.6 J | 110 | 12 J | 0.39 | 0.48 NJ | 0.18 J | 0.17 J | 0.31 |
| 4,4'-DDE | 72-55-9 | ug/kg | 3.1 J | 2.2 J | 0.052 J | 2 NJ | 0.14 J | 4.1 NJ | 13 U | 3.7 U | 0.27 NJ | 0.47 NJ | 0.077 J | 0.14 J | 0.21 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 4 | 1.1 J | 0.18 U | 7.5 | 0.19 U | 17 | 23 | 0.94 NJ | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.36 U |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.29 U | 0.35 U | 0.37 U | 0.74 NJ | 0.22 U | 1.2 U | 1.7 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.22 J | 0.56 NJ | 0.038 U | 0.25 U | 0.17 NJ | 0.17 J | 2 U | 1 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.11 U | 0.97 U | 1.1 J | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.2 U | 0.2 U | 0.13 U | 0.031 U | 0.2 U | 0.21 U | 0.31 U | 0.16 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.81 NJ | 0.34 U | 0.31 U | 0.15 U | 0.2 U | 0.15 U | 1.4 U | 1 U | 0.14 U | 0.5 U | 0.14 U | 0.14 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.15 J | 0.24 J | 0.043 U | 0.35 U | 0.13 U | 0.13 U | 2 U | 1 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.89 U | 9.7 U | 0.087 U | 0.2 U | 0.2 U | 0.36 U | 3.4 U | 0.21 U | 0.087 U | 0.14 U | 0.087 U | 0.087 U | 0.087 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.29 U | 0.2 U | 0.36 J | 0.15 U | 0.11 U | 0.54 U | 1.1 U | 1.2 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.03 U | 0.26 U | 0.11 NJ | 5.3 J | 0.21 J | 0.21 U | 2 U | 1 U | 0.055 U | 0.03 U | 0.03 U | 0.064 J | 0.1 NJ |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.25 U | 0.4 U | 0.26 U | 1.5 U | 0.81 U | 0.28 U | 0.62 U | 1.9 U | 0.058 U | 0.078 J | 0.058 U | 0.058 U | 0.058 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.071 U | 0.071 U | 0.11 U | 0.33 U | 0.076 U | 2 U | 1 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.55 U | 0.65 U | 0.3 U | 0.042 U | 0.94 U | 0.045 U | 2.5 U | 1.9 U | 0.042 U | 0.042 U | 0.042 U | 0.042 U | 0.18 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.21 U | 0.39 U | 0.029 U | 1.7 U | 0.2 U | 0.24 U | 3.7 U | 1.8 U | 0.029 U | 0.029 U | 0.029 U | 0.17 U | 0.068 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.73 U | 0.55 U | 0.32 U | 1.3 U | 0.23 U | 0.25 U | 2.1 U | 2 U | 0.2 U | 0.62 U | 0.062 U | 0.28 U | 0.084 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.59 J | 0.16 NJ | 0.47 J | 0.28 U | 0.081 U | 0.76 U | 0.38 U | 0.076 U | 0.1 U | 0.076 U | 0.076 U | 0.22 J |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.25 U | 0.2 U | 0.068 U | 0.28 U | 0.068 U | 0.22 U | 1.1 NJ | 0.63 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.18 NJ |
| Methoxychlor | 72-43-5 | ug/kg | 0.76 U | 0.075 U | 0.13 U | 0.87 U | 0.74 U | 0.08 U | 1.5 U | 2 U | 0.075 U | 0.075 U | 0.075 U | 0.12 U | 0.075 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G657 | LW3-G658 | LW3-G659-1 | LW3-G659-2 | LW3-G660 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 26 | 0 - 21 | 0 - 26 | 0 - 22 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.6 U | 16 NJ | 0.12 U | 0.12 U | 0.12 U | 0.13 U | 1.2 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.31 U | 1.5 U | 0.061 U | 2.2 U | 0.47 NJ | 0.46 U | 1.7 U | 0.48 NJ | 0.068 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.15 JT | 1.6 JT | 0.087 UT | 0.22 T | 0.47 JT | 1 JT | 3.9 UT | 0.66 JT | 0.087 UT | 0.14 UT | 0.087 UT | 0.031 JT | 0.09 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.22 JT | 0.56 JT | 0.26 UT | 1.5 UT | 0.17 JT | 0.17 JT | 2 UT | 1.9 UT | 0.058 UT | 0.078 JT | 0.058 UT | 0.058 UT | 0.058 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 8.2 T | 5.3 T | 0.16 UT | 2.6 T | 0.82 JT | 5.6 JT | 140 T | 13 JT | 0.39 T | 0.48 JT | 0.18 JT | 0.17 JT | 0.6 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 16 JT | 8.6 JT | 0.052 JT | 16 JT | 0.96 JT | 27 JT | 160 T | 15 JT | 0.72 JT | 0.95 JT | 0.26 JT | 0.31 JT | 0.81 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 3.6 JT | 2.2 JT | 0.052 JT | 2 JT | 0.14 JT | 4.1 JT | 13 UT | 3.7 UT | 0.33 JT | 0.47 JT | 0.077 JT | 0.14 JT | 0.21 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 4 T | 1.1 JT | 0.18 UT | 12 JT | 0.61 UT | 17 T | 23 T | 1.7 JT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.36 UT |
| Toxaphene | 8001-35-2 | ug/kg | 34 U | 330 U | 6 U | 42 U | 26 U | 68 U | 91 U | 24 U | 7.3 U | 3.8 U | 3.4 U | 3.4 U | 6.8 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.2 U | 0.32 J | 0.027 U | 0.68 U | 0.066 U | 0.59 J | 3.9 U | 1.1 U | 0.027 U | 0.027 U | 0.031 U | 0.031 J | 0.09 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.19 U | 1 J | 0.034 U | 0.22 | 0.2 U | 0.44 NJ | 1.8 U | 0.18 NJ | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 94 J | 110 J | 94 JT | 85 J | 160 J | 54 J | 280 J | 480 J | 8.1 U | 4.3 U | 2.7 U | 4.9 U | 84 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 57 J | 43 J | 28 JT | 43 J | 35 J | 34 J | 230 J | 130 J | 4.5 U | 4.7 U | 3.3 U | 4.7 U | 46 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 310 J | 330 J | 142 JT | 510 J | 160 J | 350 J | 610 J | 460 J | 29 J | 9.2 J | 20 J | 15 J | 170 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 140 J | 100 J | 19.5 JT | 210 J | 26 J | 140 J | 410 J | 97 J | 12 J | 7.1 J | 8 J | 9.8 J | 67 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 404 JA | 440 JA | 236 JA | 595 JA | 320 JA | 404 JA | 890 JA | 940 JA | 29 JA | 9.2 JA | 20 JA | 15 JA | 254 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 197 JA | 143 JA | 47.5 JA | 253 JA | 61 JA | 174 JA | 640 JA | 227 JA | 12 JA | 7.1 JA | 8 JA | 9.8 JA | 113 JA |
| **Phenols** | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 4.1 U | 0.38 U | 0.26 U | 0.76 J | 0.29 U | 3.5 U | 2 U | 0.33 U | 0.28 U | 0.28 U | 0.26 U | 0.28 U | 0.29 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.31 U | 0.31 U | 0.21 U | 1.7 J | 0.23 U | 0.36 U | 0.3 U | 0.27 U | 0.23 U | 0.23 U | 0.21 U | 0.23 U | 0.24 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.99 U | 0.98 U | 0.68 U | 0.99 U | 0.74 U | 1.2 U | 0.96 U | 7.8 U | 0.72 U | 0.72 U | 0.68 U | 0.73 U | 0.76 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.25 U | 0.55 U | 0.14 U | 0.25 U | 0.15 U | 0.24 U | 0.48 NJ | 0.18 U | 0.15 U | 0.15 U | 0.14 U | 0.15 U | 0.16 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 11 U | 5 U | 1 U | 5 U | 1 U | 1.1 U | 11 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | 28 U | R | 28 U | 5.5 U | R | R | 28 U | 5.5 U | 5.5 U | 5.5 U | 5.5 U | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 180 U | 85 U | 17 U | 85 U | 17 U | 19 U | 180 U | 85 U | 17 U | 17 U | 17 U | 17 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 21 U | 10 U | 2 U | 10 U | 2 U | 2.2 U | 21 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 16 U | 7.5 U | 1.5 U | 7.5 U | 1.5 U | 1.7 U | 16 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 16 U | 7.5 U | 1.5 U | 7.5 U | 1.5 U | 1.7 U | 16 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 15 U | 7 U | 1.4 U | 7 U | 1.4 U | 1.5 U | 15 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 15 U | 7 U | 1.4 U | 7 U | 1.4 U | 1.5 U | 15 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 16 U | 7.5 U | 1.5 U | 21 J | 1.5 U | 5.4 J | 16 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 190 U | 90 U | 18 U | 90 U | 18 U | 20 U | 190 U | 90 U | 18 U | 18 U | 18 U | 18 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 3.2 U | 2.7 U | 0.2 U | 37 | 0.22 U | 1.3 U | 4.7 NJ | 0.28 J | 0.21 U | 0.21 U | 0.2 U | 0.22 U | 0.77 J |
| Phenol | 108-95-2 | ug/kg | 21 U | 10 U | 2 U | 10 U | 3.9 J | 9.5 U | 21 U | 10 U | 2.5 J | 2.2 J | 2 U | 2.2 J | 2 U |
| **Phthalates** | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 110 J | 70 J | 7.3 J | 360 | 12 J | 88 | 210 | 50 J | 9.8 J | 7 U | 8.2 J | 12 J | 33 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 33 U | 16 U | 3.2 U | 130 | 3.2 U | 7.2 J | 33 U | 16 U | 3.8 J | 3.2 U | 3.2 U | 3.2 U | 3.2 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 1500 | 40 U | 9.1 J | 40 U | 14 | 16 | 80 U | 40 U | 7.9 U | 11 | 8.1 J | 14 | 11 |
| Diethyl phthalate | 84-66-2 | ug/kg | 14 U | 7.8 J | 1.6 J | 9.2 J | 2.4 J | 4.2 J | 14 U | 6.5 U | 1.9 J | 2.5 J | 1.9 J | 2.5 J | 3 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 11 U | 5 U | 1 U | 5 U | 1 U | 1.1 U | 11 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 18 U | 8.5 U | 1.7 U | 8.5 U | 1.7 U | 1.9 U | 18 U | 8.5 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 27 U | 13 U | 2.6 U | 13 U | 2.6 U | 2.8 U | 27 U | 13 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 30 U | 15 U | 2.9 U | 15 U | 2.9 U | 3.1 U | 30 U | 15 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 31 U | 15 U | 3 U | 15 U | 3 U | 3.3 U | 31 U | 15 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 30 U | 15 U | 2.9 U | 15 U | 2.9 U | 3.1 U | 30 U | 15 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 16 U | 7.5 U | 1.5 U | 7.5 U | 1.5 U | 1.7 U | 16 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 21 U | 10 U | 2 U | 10 U | 2 U | 2.2 U | 21 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 17 U | 8 U | 1.6 U | 8 U | 1.6 U | 1.8 U | 17 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 33 U | 16 U | 3.2 U | 16 U | 3.2 U | 3.5 U | 33 U | 16 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 38 U | 19 U | 3.7 UJ | 19 U | 3.7 U | 4 U | 38 U | 19 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 26 U | 13 U | 2.5 U | 13 U | 2.5 U | 2.7 U | 26 U | 13 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 17 U | 8 U | 1.6 U | 8 U | 1.6 U | 1.8 U | 17 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 20 U | 9.5 U | 1.9 U | 9.5 U | 1.9 U | 2.1 U | 20 U | 9.5 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 15 U | 7 U | 1.4 U | 7 U | 1.4 U | 1.5 U | 15 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 19 U | 9 U | 1.8 U | 9 U | 1.8 U | 2 U | 19 U | 9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 16 U | 7.5 U | R | 7.5 U | 1.5 U | 12 J | 16 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 12 U | 5.5 U | 1.1 U | 5.5 U | 1.1 U | 1.2 U | 12 U | 5.5 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 970 U | 480 U | 96 U | 480 U | 96 U | 130 J | 970 U | 480 U | 96 U | 96 U | 96 U | 96 U | 96 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 22 U | 11 U | 2.1 U | 11 U | 2.1 U | 11 | 22 U | 11 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 4.4 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 16 U | 7.5 U | 1.5 U | 7.5 U | 1.5 U | 1.7 U | 16 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 20 U | 9.5 U | 1.9 U | 9.5 U | 1.9 U | 2.1 U | 20 U | 9.5 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 27 U | 13 U | 2.6 U | 13 U | 2.6 U | 2.8 U | 27 U | 13 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G657 | LW3-G658 | LW3-G659-1 | LW3-G659-2 | LW3-G660 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 26 | 0 - 21 | 0 - 26 | 0 - 22 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 180 | 11 J | 1.3 U | 89 | 1.3 U | 11 | 570 | 13 J | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 J |
| Dibenzofuran | 132-64-9 | ug/kg | 50 J | 8 | 0.59 U | 64 | 4 | 8.1 | 140 | 79 | 0.59 U | 3.2 | 0.59 U | 0.59 U | 1.5 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.35 U | 0.33 U | 0.18 J | 0.34 U | 0.17 J | 0.17 U | 2.2 | 1.3 U | 0.068 U | 0.068 U | 0.068 U | 0.14 J | 0.068 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.7 U | 1.4 U | 0.14 U | 0.14 U | 0.14 U | 0.15 U | 1.4 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 300 U | 150 U | 29 U | 150 U | 29 U | 31 U | 300 U | 150 U | 29 U | 29 U | 29 U | 29 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.8 U | 1.6 U | 0.16 U | 0.16 U | 0.16 U | 0.18 U | 1.6 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 11 U | 5 U | 1 U | 5 U | 1 U | 1.1 U | 11 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 23 U | 11 U | 2.2 U | 11 U | 2.2 U | 2.4 U | 23 U | 11 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 62 U | 31 U | 6.1 UJ | 31 U | 6.1 U | 6.6 U | 62 U | 31 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 17 U | 8 U | 1.6 U | 8 U | 1.6 U | 1.8 U | 17 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 25 U | 12 U | 2.4 U | 12 U | 2.4 U | 2.6 U | 25 U | 12 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G664 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G673 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G686 | LW3-G687 | LW3-G691 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.5 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.6 U | 35 U | 1.5 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.5 U | 1.4 U | 1.3 U | 1.3 U | 1.7 U | 1.4 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.6 U | 5.8 U | 1.5 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.5 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.6 U | 11 U | 1.5 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 69 | 1.4 U | 8.9 J | 2.1 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.4 U | 7.5 U | 1.6 U | 1.6 U | 7.2 U | 1.5 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.5 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.6 U | 19 U | 1.5 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 87 J | 2.6 U | 7.9 | 13 | 1.3 U | 12 | 23 | 7 | 5.4 | 1.4 U | 9.6 | 5.7 J | 9 U | 10 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 89 | 1.4 U | 2.9 | 5.2 J | 1.3 U | 6 | 19 J | 9.1 J | 5.6 | 4.9 | 6.7 | 7.7 J | 7.4 U | 32 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.5 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.6 U | 6.3 U | 1.5 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.5 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.6 U | 1.5 U | 1.5 U |
| Aroclors | 12767-79-2 | ug/kg | 245 JT | 2.6 UT | 19.7 JT | 18.2 JT | 1.7 UT | 18 T | 42 JT | 16.1 JT | 11 T | 4.9 T | 16.3 T | 13.4 JT | 35 UT | 42 T |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.38 T | 1.68 | 1.62 | 1.51 | 1.71 T | 1.46 | 1.43 | 1.5 | 1.42 | 1.4 T | 1.4 | 1.38 | 1.36 | 1.38 |
| Sulfide | 18496-25-8 | mg/kg | | | | | | | | | | | | | | |
| Total organic carbon | TOC | percent | 2.36 | 0.31 | 0.51 | 1.26 | 0.357 T | 1.5 | 1.53 | 1.35 | 1.69 | 1.62 T | 1.94 | 2.03 | 2.07 | 2.02 |
| Total solids | TSO | percent | 44.3 | 70.2 | 70.1 | 51.3 | 74.5 T | 49.1 | 48.2 | 52.7 | 46.6 | 49.1 T | 43 | 43.2 | 43.3 | 45 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.793 | 0.25 J | 0.31 J | 0.249 J | | 0.422 J | | 0.135 J | | 2.18 | 0.569 J | | 0.83 | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 2.32 J | 0.0405 U | 0.231 J | 0.0127 U | | 0.341 J | | 0.0281 J | | 2.05 J | 0.15 J | | 0.51 J | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 15.5 | 1.38 J | 4.77 | 3.82 | | 3.66 | | 0.901 J | | 12 | 3.62 J | | 12 | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 87.4 | 7.82 | 41.2 | 39.3 | | 22.2 | | 5.19 | | 74.8 | 23.9 | | 97.3 | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 509 | 34.6 | 177 | 297 | | 105 | | 24.1 | | 340 | 113 | | 243 | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 2.55 | 0.799 | 0.62 | 5.51 | | 1.4 | | 0.344 J | | 4.95 | 1.42 | | 2.2 | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 8.32 | 1.23 J | 1.97 J | 26 | | 1.79 J | | 0.501 J | | 7.53 | 2.28 J | | 2.39 J | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 13.3 | 2.14 J | 5.35 | 21.5 | | 3.24 J | | 0.993 J | | 14.2 | 4.26 | | 5.12 | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 21.2 | 2.89 | 8.95 | 22.3 | | 5.94 | | 1.53 J | | 23.2 | 6.81 | | 9.83 | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 21.9 | 3.75 J | 8.38 | 40.9 | | 8.39 | | 1.88 J | | 26.2 | 8.39 | | 14.7 | |
| Total PCDD/F | TOTPCDD_F | pg/g | 682 JT | 54.9 JT | 249 JT | 457 JT | | 152 JT | | 35.6 JT | | 507 JT | 164 JT | | 388 JT | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.127 U | 0.0119 U | 0.0205 U | 0.00596 U | | 0.0367 U | | 0.00492 U | | 0.0883 U | 0.0357 U | | 0.016 U | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.243 J | 0.0405 U | 0.0717 J | 0.049 U | | 0.077 J | | 0.0281 J | | 0.246 J | 0.0945 J | | 0.108 J | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.314 J | 0.0205 U | 0.114 U | 0.0536 U | | 0.11 J | | 0.0199 U | | 0.349 U | 0.0991 J | | 0.212 J | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 1.99 J | 0.193 J | 0.853 J | 0.577 J | | 0.447 J | | 0.143 J | | 1.84 J | 0.544 J | | 0.914 J | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 1.07 J | 0.13 J | 0.388 J | 0.281 J | | 0.293 J | | 0.0865 J | | 1.11 J | 0.346 U | | 0.783 J | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 39 | 3.67 | 18.9 | 19.8 | | 9.5 | | 2.51 J | | 36.8 | 11.2 | | 27.7 | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.661 J | 0.23 J | 0.181 J | 3.47 | | 0.457 J | | 0.0415 U | | 1.21 | 0.461 U | | 0.503 J | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.64 J | 0.197 J | 0.129 J | 14.2 | | 0.339 J | | 0.0841 J | | 0.81 J | 0.431 J | | 0.428 J | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.464 J | 0.119 J | 0.115 J | 3.68 | | 0.182 J | | 0.052 J | | 0.511 J | 0.218 J | | 0.228 J | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 1.29 J | 0.533 J | 0.446 J | 12.4 | | 0.548 J | | 0.162 J | | 1.94 J | 0.799 J | | 0.798 J | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.781 J | 0.135 J | 0.167 J | 2.89 J | | 0.198 J | | 0.0604 J | | 0.673 J | 0.25 J | | 0.275 J | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0438 U | 0.0179 U | 0.017 U | 0.247 J | | 0.0221 U | | 0.0178 U | | 0.0536 U | 0.0521 U | | 0.0437 U | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.572 J | 0.0998 J | 0.18 J | 0.772 J | | 0.155 U | | 0.0451 J | | 0.56 J | 0.188 J | | 0.243 J | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 5.7 | 0.907 J | 2.43 | 5.15 | | 1.77 J | | 0.471 J | | 6.81 | 2.12 J | | 2.78 J | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.513 J | 0.259 J | 0.202 J | 1.05 J | | 0.239 J | | 0.0326 U | | 0.662 J | 0.25 J | | 0.303 J | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 1.68 JT | 0.234 JT | 0.603 JT | 3.96 JT | | 0.496 JT | | 0.134 JT | | 1.71 JT | 0.533 JT | | 0.947 JT | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 4.68 JT | 0.563 JT | 0.721 JT | 4.18 JT | | 0.755 JT | 0.787 JA | 0.137 JT | | 1.75 JT | 0.798 JT | 0.33 JA | 1.3 JT | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.19 | 0.47 | 0.04 | 0.16 | 0.0567 T | 0 | 0.23 | 0.02 | 0.08 | 0.01 | 0.22 | 0 | 0.12 | 0.29 |
| Fine gravel | GS_FG | percent | 0.8 | 0.84 | 0.65 | 0.33 | 0.123 T | 0.53 | 0.54 | 0.26 | 0.5 | 0.21 | 1.43 | 1.07 | 0.87 | 1.03 |
| Very coarse sand | GS_VCS | percent | 0.51 | 0.73 | 3.09 | 0.25 | 0.157 T | 0.56 | 0.23 | 0.31 | 0.54 | 1.22 | 1 | 0.82 | 1.06 | 0.95 |
| Coarse sand | GS_CS | percent | 1.79 | 14.9 | 28.4 | 2.54 | 5.61 T | 2.06 | 0.48 | 2.4 | 0.6 | 1.21 | 0.57 | 0.55 | 0.54 | 0.53 |
| Medium sand | GS_MS | percent | 10.8 | 59.6 | 46.9 | 16.6 | 56.3 T | 11 | 2.34 | 12.5 | 1.07 | 4.18 | 1.06 | 0.71 | 0.89 | 0.84 |
| Fine sand | GS_FS | percent | 2.82 | 12.6 | 4.78 | 9.79 | 21.5 T | 9.58 | 7.1 | 10.6 | 5.78 | 11.6 | 6.01 | 3.37 | 5.47 | 5.59 |
| Very fine sand | GS_VFS | percent | 5.43 | 4.36 | 5.94 | 18.6 | 4.21 T | 17.7 | 19.4 | 18.8 | 23.5 | 17.1 | 17.7 | 16.4 | 17.1 | 18.4 |
| Fines | GS_FINES | percent | 80.7 T | 6.11 T | 13.3 T | 57.5 T | 8.86 T | 63.9 T | 74.7 T | 56.5 T | 71.2 T | 69.1 T | 74.3 T | 68.5 T | 75.2 T | 72.5 T |
| Coarse silt | GS_CSILT | percent | 17.5 | 1.44 | 2.15 | 21.8 | 2.42 T | 20.2 | 23.9 | 17.9 | 28.2 | 42.2 | 30.3 | 30.5 | 42.2 | 34.3 |
| Medium silt | GS_MSILT | percent | 26 | 1.5 | 3.4 | 14.5 | 2.17 T | 17.3 | 21.9 | 14.8 | 18.5 | 11.1 | 17.8 | 15.7 | 15.3 | 15.6 |
| Fine silt | GS_FSILT | percent | 15.6 | 1.07 | 2.6 | 8.36 | 1.49 T | 9.43 | 8.37 | 8.47 | 9.03 | 5.59 | 10.2 | 8.5 | 8.03 | 9.4 |
| Very fine silt | GS_VFSILT | percent | 7.34 | 1.11 | 2.32 | 5.59 | 1.24 T | 6.52 | 6.97 | 5.75 | 7.01 | 3.03 | 6.76 | 5.15 | 1.94 | 4.94 |
| 8-9 Phi clay | GS_CCLAY | percent | 4.78 | 0.39 | 1.42 | 3.09 | 0.723 T | 4.06 | 4.31 | 4.13 | 3.7 | 2.37 | 3.73 | 3.33 | 4.05 | 3.02 |
| >9 Phi clay | GS_MFCLAY | percent | 9.52 | 0.6 | 1.44 | 4.15 | 0.817 T | 6.36 | 9.23 | 5.46 | 4.75 | 4.82 | 5.47 | 5.3 | 3.63 | 5.2 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G664 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G673 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G686 | LW3-G687 | LW3-G691 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 33200 | 17100 | 12900 | 26300 | 13400 T | 31900 | 33800 | 29500 | 28200 | 28200 T | 29700 | 29300 | 28400 | 30800 |
| Antimony | 7440-36-0 | mg/kg | 1.21 J | 0.52 J | 0.49 J | 0.63 J | 0.5 JT | 0.87 J | 0.95 J | 0.78 J | 0.28 J | 0.305 JT | 0.29 J | 0.3 J | 0.25 J | 0.29 J |
| Arsenic | 7440-38-2 | mg/kg | 3.82 | 3.71 | 2.43 | 3.23 | 2.04 T | 3.26 | 3.92 | 3.18 | 3.47 | 3.22 T | 3.81 | 3.47 | 4.63 | 3.38 |
| Cadmium | 7440-43-9 | mg/kg | 0.298 | 0.055 | 0.073 | 0.169 | 0.056 T | 0.165 | 0.252 | 0.157 | 0.165 | 0.178 T | 0.188 | 0.196 | 0.201 J | 0.171 |
| Chromium | 7440-47-3 | mg/kg | 28.5 J | 14.5 J | 13 J | 24.1 J | 12.7 JT | 27.3 J | 30.1 J | 26.2 J | 27.1 | 27.5 JT | 28.3 | 28.3 | 28.2 | 27.6 |
| Copper | 7440-50-8 | mg/kg | 41.9 | 15.7 | 17.1 | 32 | 14 T | 32.5 | 52.8 | 32 | 37.7 | 34.2 T | 36.5 | 41.5 | 37.4 | 41 |
| Lead | 7439-92-1 | mg/kg | 23 | 5.6 | 5.8 | 9.7 | 3.75 T | 9.6 | 19 | 9.4 | 9.2 | 10 T | 11 | 11 | 11.2 | 9.7 |
| Mercury | 7439-97-6 | mg/kg | 0.103 | 0.023 | 0.018 | 0.048 | 0.016 JT | 0.051 | 0.061 | 0.048 | 0.054 | 0.0505 T | 0.051 | 0.055 | 0.061 | 0.068 |
| Nickel | 7440-02-0 | mg/kg | 21.9 | 15.6 | 15.2 | 20.7 | 16.8 T | 21.3 | 23.5 | 21.3 | 23.1 | 21.4 T | 21.3 | 22 | 22.5 | 22.1 |
| Silver | 7440-22-4 | mg/kg | 0.43 | 0.15 | 0.15 | 0.16 | 0.155 T | 0.29 | 0.37 | 0.25 | 0.16 | 0.19 T | 0.19 | 0.18 | 0.18 | 0.17 |
| Zinc | 7440-66-6 | mg/kg | 171 | 69.3 | 68.6 | 90.1 | 59.5 T | 95.1 | 115 | 89.3 | 96.9 | 124 T | 107 | 108 | 111 | 106 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1100 | 0.31 U | 0.63 J | 1.5 J | 0.31 U | 1.5 J | 20 | 1.5 J | 1.3 J | 1.8 J | 1.6 J | 2 J | 2 J | 1.6 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 150 | 0.4 J | 1 J | 2.9 | 0.45 J | 2.4 J | 35 | 2.6 | 1.9 J | 3 | 2.5 J | 3.2 | 3.2 | 2.3 J |
| Acenaphthene | 83-32-9 | ug/kg | 2600 | 0.39 U | 1.2 U | 3 | 0.66 U | 3.5 | 200 | 2 J | 1.3 J | 3 | 3.3 | 2.7 J | 3.6 | 1.5 J |
| Acenaphthylene | 208-96-8 | ug/kg | 15 | 1.6 J | 0.88 J | 2.6 | 0.62 J | 2.9 | 6.3 | 2.2 J | 2 J | 3.5 | 3 J | 2.7 J | 3.2 | 1.9 J |
| Anthracene | 120-12-7 | ug/kg | 200 | 110 | 2.2 U | 6 | 1.9 U | 7.5 | 27 | 4.6 | 3.3 | 7.4 | 7.2 | 6.5 | 12 | 3.2 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 170 | 190 | 6.3 | 19 | 4 | 20 | 52 | 15 | 10 | 21 | 21 | 19 | 31 | 13 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 120 | 34 | 6.7 | 27 | 3.8 | 28 | 55 | 17 | 13 | 26 | 25 | 20 | 24 | 15 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 130 | 110 | 10 | 29 | 4.1 | 30 | 75 | 22 | 17 | 32 | 33 | 31 | 36 | 21 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 84 | 42 | 6 | 20 | 2.6 | 20 | 42 | 14 | 11 | 20 | 20 | 19 | 21 | 12 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 77 | 16 | 6.2 | 26 | 3.2 | 26 | 43 | 16 | 13 | 24 | 23 | 18 | 21 | 13 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 42 | 44 | 3.2 | 8.8 | 1.6 J | 11 | 24 | 6.9 | 5.7 | 9.8 | 10 | 9.2 | 12 | 6.6 |
| Chrysene | 218-01-9 | ug/kg | 180 | 270 | 8.6 | 26 | 4.2 | 27 | 67 | 21 | 16 | 30 | 37 | 32 | 48 | 18 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 12 | 5.3 | 0.91 J | 2.9 | 0.59 J | 3.1 | 7.8 | 2 J | 1.7 J | 3.8 | 3.3 | 2.9 | 3.1 | 2.3 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 100 | 5.9 | 0.41 U | 1.6 J | 0.27 U | 1.8 J | 17 | 1.1 U | 0.79 J | 2.1 J | 1.8 J | 2.1 J | 2.3 J | 1.1 J |
| Fluoranthene | 206-44-0 | ug/kg | 740 | 980 | 15 | 40 | 8.8 | 45 | 130 | 34 | 25 | 52 | 51 | 66 | 82 | 29 |
| Fluorene | 86-73-7 | ug/kg | 650 | 3.2 | 1.1 J | 2.7 | 0.66 J | 3.4 | 25 | 2.6 | 1.7 J | 4.1 | 2.7 J | 5.3 | 5.3 | 2 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 66 | 21 | 5.6 | 22 | 2.8 | 25 | 42 | 15 | 12 | 20 | 22 | 16 | 17 | 11 |
| Naphthalene | 91-20-3 | ug/kg | 170 | 1.3 U | 5.6 | 8.9 | 1.5 U | 7.9 | 82 | 8.5 | 7 | 10 | 8.2 | 13 | 8.9 | 6.7 |
| Perylene | 198-55-0 | ug/kg | 56 | 8.6 | 16 | 21 | 2.2 J | 39 | 130 | 58 | 19 | 31 | 18 | 60 | 22 | 16 |
| Phenanthrene | 85-01-8 | ug/kg | 1600 | 240 | 5.8 U | 22 | 5.4 U | 22 | 190 | 15 U | 13 | 29 | 24 | 26 | 34 | 13 |
| Pyrene | 129-00-0 | ug/kg | 690 | 590 | 16 | 45 | 9.9 | 49 | 120 | 37 | 26 | 54 | 52 | 57 | 78 | 29 |
| High Molecular Weight PAH | HPAH | ug/kg | 2200 T | 2300 T | 79 JT | 250 T | 43 JT | 260 T | 620 T | 190 JT | 140 JT | 270 T | 280 T | 270 T | 350 T | 160 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 5400 T | 360 JT | 8.6 JT | 48 T | 1.7 JT | 50 JT | 570 T | 23 JT | 30 JT | 60 T | 51 JT | 59 JT | 70 T | 31 JT |
| Total PAHs | 130498-29-2 | ug/kg | 7600 T | 2600 JT | 87 JT | 290 T | 45 JT | 310 JT | 1200 T | 210 JT | 170 JT | 330 T | 330 JT | 330 JT | 420 T | 190 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 240 | 91 | 7.7 | 20 | 2.6 | 22 | 56 | 22 J | 22 J | 32 J | 27 J | 28 J | 31 J | 20 J |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 78 | 0.84 J | 1.2 J | 2.3 J | 0.21 U | 2.1 J | 15 | 2.7 | 1.7 J | 3.2 | 2.5 J | 4.1 | 5 | 1.6 J |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 400 | 330 | 8.9 | 23 | 5.6 | 24 | 70 | 23 | 17 | 32 | 25 | 29 | 46 | 18 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 140 | 9.5 | 1.1 J | 2.7 | 0.86 J | 3.1 | 19 | 2.9 | 2.5 J | 3.2 | 2.5 J | 4.1 | 4.6 | 2.8 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 760 | 300 | 4.9 | 15 | 4.4 | 16 | 68 | 12 | 13 | 15 | 16 | 20 | 27 | 9.8 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 280 | 24 | 5.9 | 13 | 1.4 J | 13 | 50 | 13 | 12 | 21 | 14 | 18 | 19 | 12 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 250 | 9.6 | 1.8 J | 4 | 0.79 J | 5.9 | 29 | 4.9 | 4.8 | 5.2 | 6.9 | 6.1 | 9.4 | 5.6 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 310 | 71 | 5.6 | 16 | 2.1 J | 15 | 48 | 16 | 15 | 21 | 18 | 21 | 27 | 12 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 170 | 14 | 1.8 J | 4.5 | 0.77 J | 6.1 | 22 | 5.3 | 5.4 | 6.7 | 5.3 | 7.2 | 8.1 | 4.5 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 560 | 0.76 J | 1.5 J | 3.7 | 1 J | 4 | 49 | 3.7 | 3.8 | 4.9 | 4.2 | 4.6 | 6.5 | 3.9 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 580 | 120 | 4.2 | 11 | 2.4 J | 13 | 56 | 11 | 13 | 22 | 15 | 16 | 29 | 11 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 210 | 8.2 | 5.2 | 10 | 0.25 U | 12 | 43 | 11 | 12 | 17 | 16 | 15 | 16 | 11 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 250 | 4 | 1.7 J | 5.3 | 0.21 U | 6.4 | 32 | 5.5 | 5.5 | 7.6 | 6.7 | 7.3 | 9.7 | 7.4 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 260 | 24 | 4.9 | 11 | 1.5 J | 10 | 52 | 10 | 9.6 | 16 | 12 | 14 | 18 | 9.7 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 260 | 24 | 4 | 7 | 0.5 U | 8.1 | 43 | 9 | 7.9 | 8.8 | 7.7 | 0.5 U | 13 | 6.1 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 370 | 0.91 J | 1.3 J | 3.1 | 0.65 J | 4 | 29 | 3.3 | 3.7 | 4.6 | 3.9 | 4.1 | 6.3 | 3.3 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 530 | 43 | 4.9 | 12 | 2.1 J | 15 | 59 | 13 | 13 | 20 | 16 | 17 | 22 | 13 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 110 | 0.25 U | 0.25 U | 9 | 0.25 U | 6.6 | 26 | 5.9 | 0.25 U | 10 | 0.25 U | 6.6 | 8.8 | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 220 | 1.6 J | 1.7 J | 3.7 | 0.37 U | 5.8 | 26 | 4.8 | 4.4 | 5.5 | 5 | 4.8 | 9.6 | 3.8 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 230 | 14 | 5.8 | 9.4 | 0.75 U | 9.7 | 53 | 10 | 9.7 | 14 | 9.4 | 15 | 22 | 12 |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 95.4 | 4.53 J | 4.92 U | 4.98 U | | 4.79 U | 36.6 JT | 5.37 | | 6.24 | 14.5 | 5.58 | 7.04 | |
| PCB002 | 2051-61-8 | pg/g | 26.9 | 10.2 | 4.92 U | 11.7 | | 11.3 | 32.5 T | 5 U | | 11.8 | 10.5 | 16.3 | 11.4 | |
| PCB003 | 2051-62-9 | pg/g | 93.9 | 6.51 | 4.92 U | 5 | | 5.01 | 27.5 T | 5 U | | 6.69 | 5.71 | 6.08 | 8.35 | |
| PCB004 & 010 | PCB004_010 | pg/g | 477 | 19.8 | 9.83 U | 15.9 | | 16.1 | 93.6 T | 10 U | | 20.5 | 18.2 | 23.5 | 21.5 | |
| PCB005 & 008 | PCB005_008 | pg/g | 2010 | 43.6 | 9.83 U | 28.8 | | 35.2 | 291 T | 22 | | 47.1 | 37.6 | 29.9 | 53.9 | |
| PCB006 | 25569-80-6 | pg/g | 400 | 10.1 | 9.83 U | 9.97 U | | 9.58 U | 80.2 T | 14.6 | | 11.6 | 11.1 | 9.68 U | 12.7 | |
| PCB007 & 009 | PCB007_009 | pg/g | 180 | 10.1 U | 9.83 U | 9.97 U | | 9.58 U | 34.6 T | 10 U | | 9.89 U | 9.74 U | 9.68 U | 9.95 U | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G664 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G673 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G686 | LW3-G687 | LW3-G691 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 113 | 199 | 32.3 | 121 | | 134 | 274 T | 22.8 | | 168 | 134 | 156 | 180 | |
| PCB012 & 013 | PCB012_013 | pg/g | 152 | 10.1 U | 9.83 U | 9.97 U | | 9.58 U | 25.6 T | 10 U | | 9.89 U | 9.74 U | 9.68 U | 9.95 U | |
| PCB014 | 34883-41-5 | pg/g | 9.8 U | 10.1 U | 9.83 U | 9.97 U | | 9.58 U | 9.87 UT | 10 U | | 9.89 U | 9.74 U | 9.68 U | 9.95 U | |
| PCB015 | 2050-68-2 | pg/g | 886 | 62.9 | 12.4 | 34.8 | | 37.6 | 160 T | 13.1 | | 49.2 | 41.2 | 35.9 | 59.8 | |
| PCB016 & 032 | PCB016_032 | pg/g | 2320 | 49.9 | 12.4 | 36.3 | | 43.2 | 255 T | 17.8 | | 44.3 | 44.9 | 34.3 | 62.6 | |
| PCB017 | 37680-66-3 | pg/g | 1930 | 36 | 8.7 | 25.8 | | 32.1 | 244 T | 11.5 | | 34.1 | 33.5 | 28.5 | 45.3 | |
| PCB018 | 37680-65-2 | pg/g | 3650 | 75.6 | 15.2 | 52.3 | | 61.5 | 344 T | 29.6 | | 64.6 | 61 | 47.3 | 96.3 | |
| PCB019 | 38444-73-4 | pg/g | 297 | 26.2 | 8.03 | 18 | | 47.3 | 52.3 T | 6.41 | | 27.8 | 25.8 | 34 | 26.1 | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 3710 | 82.3 | 16.7 | 57.4 | | 70.2 | 363 T | 20 | | 66 | 64.5 | 43.2 | 98.1 | |
| PCB022 | 38444-85-8 | pg/g | 1960 | 56.8 | 9.31 | 37 | | 44.3 | 164 T | 12.1 | | 42.6 | 40 | 31.1 | 58.7 | |
| PCB023 | 55720-44-0 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB024 & 027 | PCB024_027 | pg/g | 246 | 7.81 | 4.92 U | 5.67 | | 7.76 | 29.3 T | 5 U | | 7.62 | 7.15 | 8.08 | 9.79 | |
| PCB025 | 55712-37-3 | pg/g | 574 | 19.5 | 4.92 U | 13.7 | | 16.1 | 75.3 T | 8.98 | | 15.3 | 16.5 | 12.7 | 21.4 | |
| PCB026 | 38444-81-4 | pg/g | 882 | 30 | 6.45 | 20.6 | | 25 | 96.1 T | 15.3 | | 23.6 | 23.7 | 20.7 | 36.6 | |
| PCB028 | 7012-37-5 | pg/g | 6860 | 182 | 33.2 | 131 | | 163 | 884 T | 43.9 | | 147 | 143 | 100 | 215 | |
| PCB029 | 15862-07-4 | pg/g | 26.1 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB030 | 35693-92-6 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB031 | 16606-02-3 | pg/g | 4960 | 150 | 27.2 | 98 | | 114 | 470 T | 37.7 | | 111 | 105 | 84.2 | 166 | |
| PCB034 | 37680-68-5 | pg/g | 81.1 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 9.7 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB035 | 37680-69-6 | pg/g | 75 | 5.25 | 4.92 U | 4.98 U | | 4.79 U | 10.1 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 5.95 | |
| PCB036 | 38444-87-0 | pg/g | 5.33 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB037 | 38444-90-5 | pg/g | 1520 | 73 | 13.7 | 49.9 | | 54.4 | 177 T | 11.5 | | 56.9 | 53.8 | 41.1 | 83.2 | |
| PCB038 | 53555-66-1 | pg/g | 31.9 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 15.9 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB039 | 38444-88-1 | pg/g | 36.6 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 6.96 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB040 | 38444-93-8 | pg/g | 955 | 30.7 | 4.92 U | 24.3 | | 23.5 | 77.8 T | 6.67 | | 25.8 | 25.9 | 15.3 | 26 | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 4740 | 178 | 32.7 | 140 | | 151 | 617 T | 47.1 | | 162 | 150 | 103 | 157 | |
| PCB042 & 059 | PCB042_059 | pg/g | 1890 | 56 | 10.4 | 46 | | 49.2 | 174 T | 13.4 | | 50.1 | 50.9 | 31.3 | 50.2 | |
| PCB043 & 049 | PCB043_049 | pg/g | 5260 | 181 | 34.6 | 142 | | 167 | 858 T | 47.8 | | 246 | 167 | 115 | 181 | |
| PCB044 | 41464-39-5 | pg/g | 5710 | 188 | 31.9 | 143 | | 157 | 525 T | 47 | | 160 | 163 | 110 | 165 | |
| PCB045 | 70362-45-7 | pg/g | 816 | 19.1 | 4.92 U | 15.9 | | 15.9 | 59.4 T | 5 U | | 16 | 17.1 | 10.1 | 20.3 | |
| PCB046 | 41464-47-5 | pg/g | 353 | 9.58 | 4.92 U | 7.93 | | 7.67 | 64.2 T | 5 U | | 8.18 | 9.19 | 5.67 | 9.56 | |
| PCB047 | 2437-79-8 | pg/g | 1660 | 92.3 | 29.3 | 71.5 | | 84.4 | 441 T | 21.1 | | 103 | 96.4 | 88.3 | 87.9 | |
| PCB048 & 075 | PCB048_075 | pg/g | 1340 | 34.5 | 6.82 | 27.1 | | 29.2 | 102 T | 7.22 | | 27.3 | 27.4 | 16.3 | 34 | |
| PCB050 | 62796-65-0 | pg/g | 26.2 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB051 | 68194-04-7 | pg/g | 283 | 20.8 | 7.87 | 17.9 | | 21.9 | 105 T | 5 U | | 25.3 | 29.6 | 28.7 | 19.6 | |
| PCB052 & 069 | PCB052_069 | pg/g | 6230 | 243 | 50.2 | 179 | | 207 | 816 T | 70.7 | | 322 | 208 | 184 | 239 | |
| PCB053 | 41464-41-9 | pg/g | 764 | 37.5 | 9.29 | 29.3 | | 40 | 194 T | 10.3 | | 46.6 | 40.4 | 36.1 | 36.4 | |
| PCB054 | 15968-05-5 | pg/g | 13.9 | 5.24 | 4.92 U | 4.98 U | | 8.51 | 9.21 T | 5 U | | 6.29 | 7.07 | 8.37 | 5.61 | |
| PCB055 | 74338-24-2 | pg/g | 54.1 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 11.1 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB056 & 060 | PCB056_060 | pg/g | 3010 | 123 | 19.1 | 98.2 | | 101 | 232 T | 22.1 | | 110 | 99.8 | 63.1 | 128 | |
| PCB057 | 70424-67-8 | pg/g | 34.2 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB058 | 41464-49-7 | pg/g | 51 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 7.52 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB061 & 070 | PCB061_070 | pg/g | 7470 | 285 | 45.5 | 210 | | 236 | 718 T | 54.4 | | 249 | 234 | 169 | 284 | |
| PCB062 | 54230-22-7 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB063 | 74472-34-7 | pg/g | 246 | 8.36 | 4.92 U | 6.99 | | 7.96 | 22.4 T | 5 U | | 7.5 | 7.61 | 4.84 U | 8.7 | |
| PCB065 | 33284-54-7 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB066 & 076 | PCB066_076 | pg/g | 6020 | 223 | 43.8 | 182 | | 197 | 664 T | 42.2 | | 193 | 191 | 138 | 240 | |
| PCB067 | 73575-53-8 | pg/g | 170 | 6.42 | 4.92 U | 5.45 | | 5.95 | 15.8 T | 5 U | | 6.78 | 6.39 | 4.84 U | 6.89 | |
| PCB068 | 73575-52-7 | pg/g | 82.9 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 20.5 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB073 | 74338-23-1 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB074 | 32690-93-0 | pg/g | 2820 | 103 | 17.2 | 79.7 | | 87.7 | 237 T | 21.4 | | 87.6 | 86.9 | 56 | 104 | |
| PCB077 | 32598-13-3 | pg/g | 490 | 29.7 | 5.34 U | 20.8 | | 22.8 | 56.9 T | 4.86 U | | 23.9 | 21.4 | 18 | 29 | |
| PCB078 | 70362-49-1 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB079 | 41464-48-6 | pg/g | 107 | 5.79 | 4.92 U | 5.25 | | 4.79 U | 26.3 T | 5 U | | 7 | 4.87 U | 5.5 | 7.54 | |
| PCB080 | 33284-52-5 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB081 | 70362-50-4 | pg/g | 20.8 | 2.5 J | 0.89 U | 0.973 J | | 0.649 J | 1.92 JT | 0.861 U | | 1.57 U | 0.713 J | 0.899 U | 1.05 J | |
| PCB082 | 52663-62-4 | pg/g | 753 | 39.8 | 10.4 | 29.8 | | 34.7 | 104 T | 8.96 | | 33.4 | 32.2 | 35.5 | 44.9 | |
| PCB083 | 60145-20-2 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB084 & 092 | PCB084_092 | pg/g | 3560 | 163 | 46.6 | 121 | | 141 | 582 T | 40.3 | | 200 | 142 | 170 | 187 | |
| PCB085 & 116 | PCB085_116 | pg/g | 1040 | 71.2 | 17 | 49.8 | | 58 | 162 T | 13.5 | | 63.3 | 56 | 61.4 | 77.2 | |
| PCB086 | 55312-69-1 | pg/g | 25.2 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 1970 | 135 | 31.3 | 91.9 | | 111 | 323 T | 27.8 | | 127 | 110 | 134 | 149 | |
| PCB088 & 091 | PCB088_091 | pg/g | 1280 | 73.6 | 21 | 56.6 | | 65.3 | 290 T | 16.5 | | 114 | 68.8 | 76.6 | 81.7 | |
| PCB089 | 73575-57-2 | pg/g | 90.8 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 9.49 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 5.08 | |
| PCB090 & 101 | PCB090_101 | pg/g | 8850 | 460 | 117 | 327 | | 385 | 1480 T | 102 | | 554 | 388 | 447 | 518 | |
| PCB093 | 73575-56-1 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G664 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G673 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G686 | LW3-G687 | LW3-G691 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 40.7 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 14 T | 5 U | | 5.46 | 4.87 U | 6.48 | 4.98 U | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 6680 | 341 | 88.4 | 235 | | 273 | 1180 T | 90.7 | | 550 | 282 | 362 | 364 | |
| PCB096 | 73575-54-9 | pg/g | 75.4 | 5.93 | 4.92 U | 4.98 U | | 4.79 U | 18.4 T | 5 U | | 11.6 | 6.73 | 6.45 | 5.86 | |
| PCB097 | 41464-51-1 | pg/g | 2050 | 112 | 28 | 79.6 | | 94.9 | 341 T | 23.6 | | 99.9 | 95.6 | 101 | 125 | |
| PCB099 | 38380-01-7 | pg/g | 3820 | 205 | 55 | 160 | | 178 | 727 T | 45.8 | | 255 | 180 | 184 | 232 | |
| PCB100 | 39485-83-1 | pg/g | 65.5 | 11.3 | 6.55 | 8.67 | | 9.78 | 45 T | 5 U | | 25.9 | 11.4 | 18.1 | 10.4 | |
| PCB103 | 60145-21-3 | pg/g | 233 | 12.2 | 4.92 U | 10.8 | | 11.4 | 60.9 T | 5 U | | 60.2 | 15 | 13.3 | 11.7 | |
| PCB104 | 56558-16-8 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB105 | 32598-14-4 | pg/g | 1370 | 131 | 26 | 86.7 | | 104 | 257 T | 21.1 | | 115 | 101 | 116 | 144 | |
| PCB106 & 118 | PCB106_118 | pg/g | 5470 | 383 | 85 | 261 | | 315 | 1020 T | 65.8 | | 350 | 305 | 332 | 414 | |
| PCB107 & 109 | PCB107_109 | pg/g | 584 | 29.8 | 8.11 | 23.5 | | 26.5 | 102 T | 6 | | 30.6 | 24.4 | 25.8 | 32.8 | |
| PCB108 & 112 | PCB108_112 | pg/g | 367 | 18.1 | 5.66 | 14.2 | | 16.6 | 60.9 T | 5 U | | 18.1 | 16.5 | 17.4 | 21.1 | |
| PCB110 | 38380-03-9 | pg/g | 8390 | 537 | 126 | 369 | | 442 | 1560 T | 121 | | 542 | 439 | 499 | 571 | |
| PCB111 & 115 | PCB111_115 | pg/g | 57.9 | 7.74 | 4.92 U | 4.98 U | | 6.65 | 13.7 T | 5 U | | 6.34 | 6.26 | 6.48 | 7.14 | |
| PCB113 | 68194-10-5 | pg/g | 52.3 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 10.2 T | 5 U | | 10.3 | 4.87 U | 4.84 U | 4.98 U | |
| PCB114 | 74472-37-0 | pg/g | 78.9 | 6.64 | 1.61 J | 4.03 J | | 5.98 | 16.5 T | 1.63 U | | 6.73 | 5.51 | 7.72 | 9.73 | |
| PCB119 | 56558-17-9 | pg/g | 324 | 15.9 | 5.62 | 13.9 | | 16.5 | 78.2 T | 5 U | | 36.5 | 17 | 14.9 | 17.3 | |
| PCB120 | 68194-12-7 | pg/g | 41.4 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 13.2 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB121 | 56558-18-0 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB122 | 76842-07-4 | pg/g | 57.5 | 5.1 | 4.92 U | 4.98 U | | 4.79 U | 11 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 5.2 | |
| PCB123 | 65510-44-3 | pg/g | 65.2 | 6.71 | 1.89 U | 4.96 J | | 5.48 | 13.5 T | 1.71 U | | 6.14 | 5.86 | 6.26 | 8.13 | |
| PCB124 | 70424-70-3 | pg/g | 160 | 15.2 | 4.92 U | 8.73 | | 11.8 | 41.3 T | 5 U | | 11.4 | 11.8 | 16.3 | 18.4 | |
| PCB126 | 57465-28-8 | pg/g | 27 | 3.07 J | 1.14 J | 2.08 J | | 2.41 J | 7.34 T | 1.71 U | | 4.3 U | 2.48 J | 3.11 J | 3.31 J | |
| PCB127 | 39635-33-1 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB128 & 162 | PCB128_162 | pg/g | 1010 | 81.3 | 21.4 | 52.9 | | 63.5 | 212 T | 12.1 | | 70.7 | 59.4 | 83.9 | 84.2 | |
| PCB129 | 55215-18-4 | pg/g | 251 | 22.7 | 6.08 | 13.6 | | 15.4 | 52.8 T | 5 U | | 18.8 | 16.2 | 25.4 | 22.9 | |
| PCB130 | 52663-66-8 | pg/g | 633 | 46.9 | 12.8 | 37 | | 39 | 120 T | 6.36 UJ | | 43.6 | 39.5 | 44.3 | 44.8 | |
| PCB131 | 61798-70-7 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB132 & 161 | PCB132_161 | pg/g | 2770 | 163 | 44.7 | 113 | | 124 | 474 T | 30.5 | | 168 | 126 | 174 | 173 | |
| PCB133 & 142 | PCB133_142 | pg/g | 423 | 20.6 | 5.73 | 16.5 | | 17.5 | 70.4 T | 5 U | | 30.4 | 17.3 | 21.5 | 22.8 | |
| PCB134 & 143 | PCB134_143 | pg/g | 485 | 28.1 | 8.05 | 19.8 | | 21.3 | 75.9 T | 5.96 | | 32.6 | 23.5 | 29.3 | 29.2 | |
| PCB135 | 52744-13-5 | pg/g | 1990 | 103 | 26.5 | 77.3 | | 85.5 | 333 T | 20.4 | | 150 | 84 | 113 | 113 | |
| PCB136 | 38411-22-2 | pg/g | 1800 | 94.8 | 25.3 | 67 | | 74.2 | 315 T | 20.4 | | 137 | 79.2 | 105 | 101 | |
| PCB137 | 35694-06-5 | pg/g | 249 | 20.7 | 5.56 | 16.3 | | 17.7 | 55 T | 5 U | | 19.7 | 18.1 | 25.5 | 23.8 | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 9730 | 635 | 165 | 431 | | 494 | 1710 T | 103 | | 608 | 497 | 656 | 679 | |
| PCB139 & 149 | PCB139_149 | pg/g | 11600 | 633 | 160 | 465 | | 506 | 1940 T | 119 | | 741 | 527 | 674 | 697 | |
| PCB140 | 59291-64-4 | pg/g | 130 | 6.69 | 4.92 U | 6.99 | | 6.9 | 27.9 T | 5 U | | 16.7 | 6.36 | 6.37 UJ | 8.26 | |
| PCB141 | 52712-04-6 | pg/g | 1930 | 115 | 30.7 | 78.2 | | 84.4 | 300 T | 20.1 | | 106 | 90.7 | 119 | 119 | |
| PCB144 | 68194-14-9 | pg/g | 511 | 32.3 | 7.82 | 20.1 | | 23.6 | 80.5 T | 6.28 | | 30.9 | 26 | 34.6 | 33.4 | |
| PCB145 | 74472-40-5 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB146 & 165 | PCB146_165 | pg/g | 2430 | 116 | 31.6 | 94.2 | | 105 | 414 T | 21 | | 170 | 98.2 | 113 | 128 | |
| PCB147 | 68194-13-8 | pg/g | 179 | 24.4 | 7.21 | 15.7 | | 19.6 | 74.3 T | 5 U | | 28.8 | 19.2 | 29.3 | 24 | |
| PCB148 | 74472-41-6 | pg/g | 93 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 16.2 T | 5 U | | 9.09 | 4.87 U | 4.84 U | 4.98 U | |
| PCB150 | 68194-08-1 | pg/g | 40.9 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 18.7 T | 5 U | | 8.79 | 4.87 U | 4.84 U | 4.98 U | |
| PCB151 | 52663-63-5 | pg/g | 3760 | 184 | 47.6 | 132 | | 147 | 533 T | 39.3 | | 238 | 152 | 196 | 196 | |
| PCB152 | 68194-09-2 | pg/g | 5.67 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB153 | 35065-27-1 | pg/g | 12100 | 632 | 179 | 470 | | 515 | 1960 T | 111 | | 701 | 532 | 651 | 676 | |
| PCB154 | 60145-22-4 | pg/g | 397 | 18.7 | 6.71 | 19.1 | | 19.8 | 104 T | 5 U | | 46.8 | 16.7 | 21.5 | 23.2 | |
| PCB155 | 33979-03-2 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB156 | 38380-08-4 | pg/g | 671 | 49.5 | 12.7 | 33 | | 38.6 | 135 T | 6.9 | | 45.1 | 38.8 | 54.7 | 54.3 | |
| PCB157 | 69782-90-7 | pg/g | 98 | 11.1 | 2.5 J | 7.07 | | 8.6 | 24.2 T | 1.6 J | | 8.82 | 8.82 | 11.7 | 11.4 | |
| PCB158 & 160 | PCB158_160 | pg/g | 741 | 61.9 | 15.3 | 40.1 | | 46.6 | 145 T | 10.4 | | 53.3 | 48.2 | 66.3 | 66.8 | |
| PCB159 | 39635-35-3 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB166 | 41411-63-6 | pg/g | 16.8 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB167 | 52663-72-6 | pg/g | 267 | 22.7 | 5.5 | 14.5 | | 17.4 | 57 T | 3.94 J | | 20.9 | 16.9 | 22.8 | 23.4 | |
| PCB168 | 59291-65-5 | pg/g | 24.3 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 5.21 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB169 | 32774-16-6 | pg/g | 3.18 U | 0.873 U | 0.407 U | 0.569 U | | 0.883 U | 0.944 UT | 1.07 U | | 0.805 J | 0.783 U | 0.861 U | 0.934 U | |
| PCB170 | 35065-30-6 | pg/g | 3610 | 179 | 51.7 | 136 | | 146 | 542 T | 30.3 | | 172 | 147 | 197 | 194 | |
| PCB171 | 52663-71-5 | pg/g | 1070 | 48.7 | 14 | 36.3 | | 36.9 | 158 T | 7.48 | | 44.8 | 38.8 | 51.3 | 51.5 | |
| PCB172 | 52663-74-8 | pg/g | 668 | 33 | 9.47 | 26 | | 26 | 99.5 T | 6.3 | | 32.6 | 25.2 | 33.6 | 35 | |
| PCB173 | 68194-16-1 | pg/g | 84.4 | 5.23 | 4.92 U | 4.98 U | | 4.79 U | 13.3 T | 5 U | | 4.95 U | 4.87 U | 5.02 | 5.22 | |
| PCB174 | 38411-25-5 | pg/g | 4970 | 236 | 63.2 | 167 | | 177 | 686 T | 34.8 | | 212 | 195 | 235 | 238 | |
| PCB175 | 40186-70-7 | pg/g | 214 | 11.8 | 4.92 U | 8.16 | | 7.88 | 29.7 T | 5 U | | 11.2 | 9.62 | 10.8 | 12.2 | |
| PCB176 | 52663-65-7 | pg/g | 637 | 31.8 | 9.29 | 23.9 | | 25.5 | 94.1 T | 5.28 | | 32.4 | 27.3 | 32.7 | 34.5 | |
| PCB177 | 52663-70-4 | pg/g | 2750 | 125 | 35.8 | 94.2 | | 103 | 402 T | 17.6 | | 130 | 104 | 131 | 132 | |
| PCB178 | 52663-67-9 | pg/g | 1080 | 53.7 | 16.3 | 43.1 | | 45.9 | 164 T | 8.8 | | 65.3 | 45.4 | 56.9 | 62.6 | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G664 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G673 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G686 | LW3-G687 | LW3-G691 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 2280 | 116 | 31.7 | 84.7 | | 91.2 | 342 T | 17.8 | | 123 | 94.4 | 115 | 124 | |
| PCB180 | 35065-29-3 | pg/g | 10100 | 470 | 134 | 356 | | 372 | 1420 T | 74.8 | | 450 | 394 | 493 | 504 | |
| PCB181 | 74472-47-2 | pg/g | 22.6 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB182 & 187 | PCB182_187 | pg/g | 6160 | 335 | 96.6 | 260 | | 275 | 971 T | 51.8 | | 357 | 278 | 347 | 370 | |
| PCB183 | 52663-69-1 | pg/g | 2500 | 133 | 38.9 | 97.8 | | 99.2 | 376 T | 19.5 | | 125 | 108 | 136 | 142 | |
| PCB184 | 74472-48-3 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB185 | 52712-05-7 | pg/g | 524 | 22.9 | 5.91 | 17 | | 18.1 | 70.4 T | 5 U | | 20.5 | 19.1 | 23.9 | 24.3 | |
| PCB186 | 74472-49-4 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB188 | 74487-85-7 | pg/g | 8.4 | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB189 | 39635-31-9 | pg/g | 125 | 7.12 | 2.32 J | 5.2 | | 5.64 | 20.8 T | 0.793 U | | 6.71 | 6.12 | 7.36 | 7.23 | |
| PCB190 | 41411-64-7 | pg/g | 769 | 38.7 | 11.5 | 30.3 | | 31.9 | 113 T | 6.53 | | 36.6 | 31.6 | 41.4 | 42.2 | |
| PCB191 | 74472-50-7 | pg/g | 141 | 8.05 | 4.92 U | 6.09 | | 6.22 | 23.3 T | 5 U | | 7.39 | 6.55 | 8.33 | 8.56 | |
| PCB192 | 74472-51-8 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB193 | 69782-91-8 | pg/g | 511 | 24.2 | 6.99 | 19.9 | | 20.1 | 77.2 T | 5 U | | 25 | 20.1 | 25.3 | 25.7 | |
| PCB194 | 35694-08-7 | pg/g | 2390 | 106 | 32.9 | 95.7 | | 90.3 | 343 T | 19.5 | | 105 | 98.3 | 119 | 123 | |
| PCB195 | 52663-78-2 | pg/g | 1040 | 44.2 | 12.8 | 38.8 | | 36.4 | 133 T | 6.23 UJ | | 42.3 | 38.9 | 46.7 | 50.9 | |
| PCB196 & 203 | PCB196_203 | pg/g | 2450 | 169 | 46.7 | 138 | | 135 | 426 T | 23.2 | | 158 | 149 | 162 | 172 | |
| PCB197 | 33091-17-7 | pg/g | 81.3 | 5.43 | 4.92 U | 4.98 U | | 4.79 U | 14.5 T | 5 U | | 4.95 U | 4.87 U | 4.84 U | 5.24 | |
| PCB198 | 68194-17-2 | pg/g | 112 | 9.34 | 4.92 U | 6.41 | | 5.9 UJ | 20.1 T | 5 U | | 8.28 | 8.13 | 6.97 | 8.94 | |
| PCB199 | 52663-75-9 | pg/g | 2320 | 167 | 41.4 | 139 | | 132 | 394 T | 25 | | 157 | 152 | 155 | 170 | |
| PCB200 | 52663-73-7 | pg/g | 322 | 22.2 | 5.95 | 16.5 | | 16 | 54.3 T | 5 U | | 19.7 | 19.6 | 16.4 | 21.5 | |
| PCB201 | 40186-71-8 | pg/g | 312 | 16.9 | 5.06 | 15.7 | | 14.8 | 49.1 T | 5 U | | 17.3 | 14.8 | 15.5 | 18.9 | |
| PCB202 | 2136-99-4 | pg/g | 443 | 27.4 | 7.78 | 22.8 | | 23.3 | 74.9 T | 5 U | | 27.4 | 25.4 | 26 | 31.5 | |
| PCB204 | 74472-52-9 | pg/g | 4.9 U | 5.04 U | 4.92 U | 4.98 U | | 4.79 U | 4.93 UT | 5 U | | 4.95 U | 4.87 U | 4.84 U | 4.98 U | |
| PCB205 | 74472-53-0 | pg/g | 104 | 5.1 | 4.92 U | 5.03 | | 4.82 | 16.5 T | 5 U | | 5.71 | 4.87 U | 5.5 | 5.62 | |
| PCB206 | 40186-72-9 | pg/g | 701 | 65.5 | 20.8 | 65.6 | | 65.7 | 164 T | 8.01 | | 57.5 | 67.1 | 58.6 | 78.2 | |
| PCB207 | 52663-79-3 | pg/g | 87.4 | 8.33 | 4.92 U | 8 | | 7.13 | 21.1 T | 5 U | | 7.26 | 9.13 | 6.96 | 10.6 | |
| PCB208 | 52663-77-1 | pg/g | 161 | 20.5 | 6.54 | 20.4 | | 20.2 | 43.5 T | 5 U | | 17.4 | 20.6 | 16.9 | 25 | |
| PCB209 | 2051-24-3 | pg/g | 352 | 73.1 | 23.2 | 72.1 | | 62.9 | 116 T | 8.34 | | 72.7 | 51.4 | 51.4 | 71 | |
| Total PCB Congeners | 1336-36-3 | pg/g | 235000 T | 11600 JT | 2770 JT | 8470 JT | | 9440 JT | 35600 JT | 2180 JT | | 12100 JT | 9600 JT | 10500 JT | 12300 JT | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 3 T | 0.329 JT | 0.118 JT | 0.223 JT | | 0.258 JT | 0.787 JT | 0.00298 JT | | 0.0433 JT | 0.265 JT | 0.33 JT | 0.354 JT | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 216 T | 21.2 JT | 4.92 UT | 16.7 T | | 16.3 T | 96.6 JT | 5.37 T | | 24.7 T | 30.7 T | 28 T | 26.8 T | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 4220 T | 335 T | 44.7 T | 201 T | | 223 T | 959 T | 72.5 T | | 296 T | 242 T | 245 T | 328 T | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 29200 T | 794 T | 151 T | 546 T | | 679 T | 3200 T | 215 T | | 641 T | 619 T | 485 T | 925 T | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 50600 T | 1880 JT | 339 T | 1450 JT | | 1620 JT | 6060 JT | 411 T | | 1880 T | 1640 JT | 1200 T | 1840 JT | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 47600 T | 2790 JT | 680 JT | 1960 JT | | 2320 JT | 8540 T | 583 T | | 3230 T | 2320 JT | 2660 JT | 3060 JT | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 54300 T | 3120 T | 828 JT | 2240 T | | 2490 T | 9250 T | 532 JT | | 3500 JT | 2540 T | 3270 T | 3350 T | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 38200 T | 1880 T | 528 JT | 1410 T | | 1490 T | 5600 T | 281 T | | 1850 T | 1550 T | 1950 T | 2010 T | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 9570 T | 573 T | 153 T | 478 T | | 453 T | 1530 T | 67.7 T | | 541 T | 506 T | 553 T | 608 T | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 949 T | 94.3 T | 27.3 T | 94 T | | 93 T | 229 T | 8.01 T | | 82.2 T | 96.8 T | 82.5 T | 114 T | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 7.2 NJ | 0.25 | 0.87 J | 2.2 | 0.16 U | 0.93 J | 1.9 NJ | 0.92 J | 0.94 U | 1.2 NJ | 0.85 J | 0.25 U | 1.9 NJ | 1.4 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 1.1 U | 0.047 U | 0.22 U | 0.18 U | 0.061 J | 0.22 U | 0.54 U | 0.046 U | 0.22 U | 0.18 U | 0.054 U | 0.24 U | 0.49 J | 0.23 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 7.8 J | 0.33 | 0.3 J | 0.68 U | 0.061 U | 0.91 J | 1.7 | 0.55 | 0.27 U | 0.64 | 0.87 U | 0.58 | 0.071 U | 0.62 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 5.6 | 0.76 | 0.29 J | 6.5 | 0.23 | 2.7 | 0.84 | 2 | 0.8 | 1.7 | 2.4 | 0.8 | 2.8 | 0.8 |
| 4,4'-DDE | 72-55-9 | ug/kg | 10 J | 0.5 | 0.39 | 2.2 | 0.2 | 1.9 | 3.1 | 1.8 | 1.4 | 1.6 | 1.8 | 1.6 | 2.2 | 1.6 |
| 4,4'-DDT | 50-29-3 | ug/kg | 8.6 U | 1.3 J | 0.79 NJ | 11 | 0.18 U | 1.3 U | 2.5 | 17 | 0.51 U | 1.4 NJ | 7.3 | 0.59 U | 0.93 U | 3.3 U |
| Aldrin | 309-00-2 | ug/kg | 0.48 U | 0.37 NJ | 0.12 U | 0.12 U | 0.12 U | 0.17 U | 0.13 U | 0.32 J | 0.24 U | 0.16 NJ | 0.39 U | 0.43 U | 1.2 NJ | 0.62 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.24 U | 0.037 U | 0.046 U | 0.15 U | 0.037 U | 0.075 J | 0.24 J | 0.059 NJ | 0.26 J | 0.078 NJ | 0.091 J | 0.21 J | 0.12 U | 0.19 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.12 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.099 U | 0.11 U | 0.097 U | 0.11 U | 0.099 U | 0.12 U | 0.12 U | 0.12 U | 0.13 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 1.5 | 0.058 U | 0.04 U | 0.19 U | 0.031 U | 0.25 U | 0.21 U | 0.031 U | 0.034 U | 0.032 U | 0.036 U | 0.14 U | 0.036 U | 0.23 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.71 NJ | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.15 U | 0.45 U | 0.14 U | 0.15 U | 0.15 U | 0.17 U | 0.17 U | 0.17 U | 0.55 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.27 J | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.032 U | 0.033 U | 0.081 U | 0.089 U | 0.073 U | 0.049 J | 0.11 U | 0.24 U | 0.049 J |
| cis-Nonachlor | 5103-73-1 | ug/kg | 5.3 U | 0.13 U | 0.19 U | 0.29 U | 0.087 U | 0.42 U | 1.4 U | 0.31 U | 0.36 U | 0.37 U | 0.38 U | 0.42 U | 0.49 U | 1.8 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.13 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.12 U | 0.12 U | 0.11 U | 0.12 U | 0.12 U | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| Dieldrin | 60-57-1 | ug/kg | 0.23 U | 0.11 NJ | 0.12 J | 0.03 U | 0.074 J | 0.21 U | 0.21 U | 0.14 U | 0.35 | 0.29 | 0.23 U | 0.26 U | 0.45 J | 0.31 |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.066 U | 0.058 U | 0.058 U | 0.2 U | 0.058 U | 0.21 U | 0.061 U | 0.2 U | 0.22 U | 0.21 U | 0.24 U | 0.24 U | 0.24 U | 0.23 U |
| Endrin | 72-20-8 | ug/kg | 1.8 U | 0.071 U | 0.071 U | 0.2 | 0.071 U | 0.073 U | 0.45 U | 0.071 U | 0.13 U | 0.21 U | 0.24 U | 0.24 U | 0.082 U | 0.079 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 1.5 U | 0.042 U | 0.06 U | 0.042 U | 0.042 U | 0.043 U | 0.4 U | 0.042 U | 0.045 U | 0.21 U | 0.049 U | 0.24 U | 0.24 U | 0.56 U |
| Endrin ketone | 53494-70-5 | ug/kg | 1.8 U | 0.065 U | 0.2 U | 0.22 U | 0.045 U | 0.22 U | 0.33 U | 0.19 U | 0.28 U | 0.2 U | 0.25 U | 0.29 U | 0.35 | 0.74 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.97 U | 0.062 U | 0.062 U | 0.27 U | 0.12 U | 0.21 U | 0.21 U | 0.2 U | 0.22 U | 0.21 U | 0.24 U | 0.24 U | 0.24 U | 0.43 U |
| Heptachlor | 76-44-8 | ug/kg | 0.52 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.078 U | 0.49 J | 0.076 U | 0.082 U | 0.078 U | 0.088 U | 0.088 U | 0.088 U | 0.085 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 1.4 NJ | 0.068 U | 0.075 NJ | 0.18 U | 0.068 U | 0.21 U | 0.31 U | 0.2 U | 0.22 U | 0.21 U | 0.24 U | 0.24 U | 0.24 U | 0.23 U |
| Methoxychlor | 72-43-5 | ug/kg | 1.1 U | 0.2 U | 0.13 U | 0.44 U | 0.092 U | 0.42 U | 0.33 U | 0.55 U | 0.34 U | 0.56 U | 0.48 U | 0.68 U | 0.33 U | 0.63 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G664 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G673 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G686 | LW3-G687 | LW3-G691 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.14 U | 0.13 U | 0.12 U | 0.12 U | 0.12 U | 0.13 U | 0.13 U | 0.12 U | 0.13 U | 0.13 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.58 J | 0.062 U | 0.061 U | 0.2 U | 0.061 U | 0.21 U | 0.12 U | 0.2 U | 0.59 U | 0.21 U | 0.29 U | 0.26 U | 0.71 U | 0.45 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.85 JT | 0.13 UT | 0.12 JT | 0.37 UT | 0.081 JT | 0.17 JT | 0.11 JT | 0.47 JT | 0.57 JT | 0.47 JT | 0.63 JT | 0.57 JT | 0.71 UT | 0.76 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 1.5 T | 0.058 UT | 0.058 UT | 0.2 UT | 0.058 UT | 0.075 JT | 0.24 JT | 0.059 JT | 0.26 JT | 0.078 JT | 0.091 JT | 0.21 JT | 0.24 UT | 0.19 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 13 JT | 1 T | 1.2 JT | 8.7 T | 0.23 T | 3.6 JT | 2.7 JT | 2.9 JT | 0.8 T | 2.9 JT | 3.3 JT | 0.8 T | 4.7 JT | 0.8 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 31 JT | 3.1 JT | 2.6 JT | 22 T | 0.49 JT | 6.4 JT | 10 JT | 22 JT | 2.2 T | 6.5 JT | 12 JT | 3 T | 7.4 JT | 2.4 T |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 10 JT | 0.5 T | 0.39 T | 2.2 T | 0.26 JT | 1.9 T | 3.1 T | 1.8 T | 1.4 T | 1.6 T | 1.8 T | 1.6 T | 2.7 JT | 1.6 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 7.8 JT | 1.6 JT | 1.1 JT | 11 T | 0.18 UT | 0.91 JT | 4.2 T | 18 T | 0.51 UT | 2 JT | 7.3 T | 0.58 T | 0.93 UT | 3.3 UT |
| Toxaphene | 8001-35-2 | ug/kg | 160 U | 15 U | 6.9 U | 15 U | 3.5 U | 16 U | 29 U | 16 U | 18 U | 24 U | 16 U | 22 U | 13 U | 30 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.67 U | 0.13 U | 0.12 J | 0.37 U | 0.081 J | 0.32 U | 0.27 U | 0.3 | 0.41 J | 0.3 J | 0.32 | 0.38 | 0.56 U | 0.58 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.22 U | 0.035 U | 0.076 U | 0.2 U | 0.034 U | 0.17 J | 0.11 J | 0.17 J | 0.16 J | 0.17 J | 0.26 J | 0.19 J | 0.16 U | 0.13 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 270 J | 8.2 J | 21 J | 59 J | 10.5 JT | 76 J | 140 J | 55 J | 55 J | 69.2 JT | 66.7 JT | 57 J | 78 J | 62 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 220 J | 5.3 U | 18 J | 46 J | 7.85 JT | 44 J | 120 J | 41 J | 31 J | 48 JT | 43 JT | 36 J | 50 J | 34 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 660 J | 33 J | 81 J | 270 J | 56 JT | 400 J | 450 J | 280 J | 290 J | 390 JT | 313 JT | 280 J | 500 J | 330 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 490 J | 19 J | 54 J | 150 J | 23 JT | 150 J | 300 J | 150 J | 120 J | 180 JT | 150 JT | 130 J | 200 J | 140 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 930 JA | 41.2 JA | 102 JA | 329 JA | 66.5 JA | 476 JA | 590 JA | 335 JA | 345 JA | 459 JA | 380 JA | 337 JA | 578 JA | 392 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 710 JA | 19 JA | 72 JA | 196 JA | 30.9 JA | 194 JA | 420 JA | 191 JA | 151 JA | 228 JA | 193 JA | 166 JA | 250 JA | 174 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.48 U | 0.29 U | 0.3 U | 0.41 U | 0.29 U | 0.42 U | 0.43 U | 0.39 U | 11 U | 0.42 U | 0.49 U | 0.48 U | 0.48 U | 0.62 J |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 3.5 U | 0.24 U | 0.24 U | 0.33 U | 0.23 U | 0.34 U | 0.35 U | 0.32 U | 0.36 U | 0.34 U | 0.4 U | 0.39 U | 0.39 U | 0.38 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.3 U | 0.76 U | 0.78 U | 1.1 U | 0.74 U | 1.1 U | 1.2 U | 1.1 U | 1.2 U | 1.1 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.25 U | 0.16 U | 0.16 U | 0.21 UJ | 0.15 UJ | 0.22 UJ | 0.23 UJ | 0.21 UJ | 0.23 UJ | 0.22 UJ | 0.26 UJ | 0.25 UJ | 0.3 U | 0.25 UJ |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 5.7 U | 1 U | 1 U | 1 U | 1 U | 5.1 U | 1.1 U | 1 U | 1.1 U | 5.1 U | 1.2 U | 1.2 U | 5.8 U | 1.2 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 31 UJ | 5.5 UJ | 5.5 UJ | 5.5 UJ | 5.5 UJ | 28 UJ | 5.7 UJ | 5.5 UJ | R | R | R | R | 32 U | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 96 U | 17 U | 17 U | 17 U | 17 U | 87 U | 18 U | 17 U | 19 U | 87 U | 20 U | 20 U | 99 U | 19 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 12 U | 2 U | 2 U | 2 U | 2 U | 11 U | 2.1 U | 2 U | 2.2 U | 11 U | 2.4 U | 2.4 U | 12 U | 2.3 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.7 U | 1.6 U | 1.5 U | 1.7 U | 7.7 U | 1.8 U | 1.8 U | 8.7 U | 1.7 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.7 U | 1.6 U | 1.5 U | 1.7 U | 7.7 U | 1.8 U | 1.8 U | 8.7 U | 1.7 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 7.9 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 7.2 U | 1.5 U | 1.4 U | 1.5 U | 7.2 U | 1.7 U | 1.7 U | 8.1 U | 1.6 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 7.9 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 7.2 U | 1.5 U | 1.4 U | 1.5 U | 7.2 U | 1.7 U | 1.7 U | 8.1 U | 1.6 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 22 J | 1.5 U | 1.5 U | 4.9 J | 1.5 U | 7.7 U | 5.9 J | 5.7 J | 6.4 J | 9.7 J | 9.7 J | 6.7 J | 15 J | 12 |
| 4-Nitrophenol | 100-02-7 | ug/kg | 110 U | 18 U | 18 U | 18 U | 18 U | 92 U | 19 U | 18 U | 20 U | 92 U | 21 U | 21 U | 110 U | 20 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.36 U | 0.23 U | 0.23 U | 0.31 U | 0.22 U | 0.32 U | 0.33 U | 0.3 U | 0.34 U | 0.32 U | 0.37 U | 6.4 U | 5.1 U | 0.36 U |
| Phenol | 108-95-2 | ug/kg | 12 U | 2 U | 3.5 J | 5.2 J | 2.2 J | 11 U | 5.5 J | 4.2 J | 5.8 J | 11 U | 6 J | 6.2 J | 12 U | 5.7 J |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 100 J | 11 J | 33 | 66 | 17 J | 120 | 300 | 92 | 170 | 190 | 140 | 150 | 190 | 160 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 19 U | 3.2 U | 4.1 J | 3.2 U | 3.2 U | 17 U | 3.4 U | 3.2 U | 3.5 U | 24 J | 3.8 U | 5.5 J | 19 U | 25 |
| Dibutyl phthalate | 84-74-2 | ug/kg | 45 U | 7.9 U | 14 | 11 | 7.9 U | 41 U | 11 | 14 | 19 | 41 U | 18 | 19 | 46 U | 24 |
| Diethyl phthalate | 84-66-2 | ug/kg | 8 J | 1.6 J | 2.4 J | 1.9 J | 2.1 J | 6.7 U | 1.4 U | 2.8 J | 3.4 J | 7.8 J | 3.8 J | 3.6 J | 7.5 U | 4.1 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 5.7 U | 1 U | 1 U | 1 U | 1 U | 5.1 U | 1.1 U | 1.5 J | 2.1 J | 5.1 U | 1.8 J | 1.2 U | 5.8 U | 1.2 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 9.6 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 8.7 U | 1.8 U | 1.7 U | 1.9 U | 8.7 U | 2 U | 2 U | 9.9 U | 1.9 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 15 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 14 U | 2.7 U | 2.6 U | 2.8 U | 14 U | 3.1 U | 3.1 U | 15 U | 2.9 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 17 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 15 U | 3.1 U | 2.9 U | 3.2 U | 15 U | 3.4 U | 3.4 U | 17 U | 3.3 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 17 U | 3 U | 3 U | 3 U | 3 U | 16 U | 3.2 U | 3 U | 3.3 U | 16 U | 3.5 U | 3.5 U | 18 U | 3.4 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 17 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 15 U | 3.1 U | 2.9 U | 3.2 U | 15 U | 3.4 U | 3.4 U | 17 U | 3.3 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.7 U | 1.6 U | 1.5 U | 1.7 U | 7.7 U | 1.8 U | 1.8 U | 8.7 U | 1.7 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 12 U | 2 U | 2 U | 2 U | 2 U | 11 U | 2.1 U | 2 U | 2.2 U | 11 U | 2.4 U | 2.4 U | 12 U | 2.3 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 9.1 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 8.2 U | 1.7 U | 1.6 U | 1.8 U | 8.2 U | 1.9 U | 1.9 U | 9.3 U | 1.8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 19 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 17 U | 3.4 U | 3.2 U | 3.5 U | 17 U | 3.8 U | 3.8 U | 19 U | 3.6 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 21 U | 3.7 U | 3.7 U | 3.7 U | 3.7 UJ | 19 U | 3.9 U | 3.7 U | 4 U | R | 4.3 U | 4.3 U | 22 U | 4.2 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 15 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 13 U | 2.6 U | 2.5 U | 2.7 U | 13 U | 3 U | 2.9 U | 15 U | 2.8 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 9.1 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 8.2 U | 1.7 U | 1.6 U | 1.8 U | 8.2 U | 1.9 U | 1.9 U | 9.3 U | 1.8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 11 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 9.7 U | 2 U | 1.9 U | 2.1 U | 9.7 U | 2.3 U | 2.2 U | 11 U | 2.2 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 7.9 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 7.2 U | 1.5 U | 1.4 U | 1.5 U | 7.2 U | 1.7 U | 1.7 U | 8.1 U | 1.6 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 11 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 9.2 U | 1.9 U | 1.8 U | 2 U | 9.2 U | 2.1 U | 2.1 U | 11 U | 2 U |
| Aniline | 62-53-3 | ug/kg | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 UJ | 19 J | 1.6 U | 1.5 U | 1.7 U | R | 1.8 U | 1.8 U | 8.7 U | 1.7 U |
| Azobenzene | 103-33-3 | ug/kg | 6.2 U | 1.1 U | 1.1 U | 1.1 U | 1.1 UJ | 5.6 U | 1.2 U | 1.1 U | 1.2 U | 5.7 U | 1.3 U | 1.3 U | 6.4 U | 1.3 U |
| Benzoic acid | 65-85-0 | ug/kg | 550 U | 96 U | 96 U | 96 U | 96 U | 490 U | 100 U | 96 U | 110 U | 490 U | 120 U | 120 U | 560 U | 140 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 12 U | 2.5 J | 4.6 J | 4 J | 2.1 U | 11 U | 6 J | 5.9 J | 6.5 J | 11 U | 6.2 J | 6.3 J | 13 U | 7.9 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.7 U | 1.6 U | 1.5 U | 1.7 U | 7.7 U | 1.8 U | 1.8 U | 8.7 U | 1.7 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 11 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 9.7 U | 2 U | 1.9 U | 2.1 U | 9.7 U | 2.3 U | 2.2 U | 11 U | 2.2 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 15 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 14 U | 2.7 U | 2.6 U | 2.8 U | 14 U | 3.1 U | 3.1 U | 15 U | 2.9 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G664 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G673 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G686 | LW3-G687 | LW3-G691 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 120 | 6.6 J | 1.3 U | 1.7 J | 1.3 U | 6.7 U | 7.8 J | 1.3 U | 2 J | 6.7 U | 1.6 U | 2.7 J | 7.5 U | 2.4 J |
| Dibenzofuran | 132-64-9 | ug/kg | 190 | 0.59 U | 0.92 J | 1.4 J | 0.59 U | 1.9 J | 11 | 1.8 J | 1.2 J | 2.3 J | 1.9 J | 3.8 | 3.5 | 1.5 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.47 U | 0.071 U | 0.068 U | 0.2 U | 0.068 U | 6.1 U | 0.21 U | 0.11 J | 0.14 U | 0.18 J | 0.13 J | 0.24 U | 0.24 U | 0.29 J |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.16 U | 0.15 U | 0.14 U | 0.14 U | 0.14 U | 0.15 U | 0.21 U | 0.14 U | 0.15 U | 0.15 U | 0.17 U | 0.22 U | 0.17 U | 0.16 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 170 U | 29 U | 29 U | 29 U | 29 U | 150 U | 31 U | 29 U | 32 U | 150 U | 34 U | 34 U | 170 U | 33 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.18 U | 0.17 U | 0.16 U | 0.16 U | 0.16 U | 0.17 U | 0.17 U | 0.16 U | 0.18 U | 0.17 U | 0.19 U | 0.19 U | 0.19 U | 0.23 U |
| Isophorone | 78-59-1 | ug/kg | 5.7 U | 1 U | 1 U | 1 U | 1 U | 5.1 U | 1.1 U | 1 U | 1.1 U | 5.1 U | 1.2 U | 1.2 U | 5.8 U | 1.2 U |
| Nitrobenzene | 98-95-3 | ug/kg | 13 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 12 U | 2.3 U | 2.2 U | 2.4 U | 12 U | 2.6 U | 2.6 U | 13 U | 2.5 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 35 U | 6.1 U | 6.1 U | 6.1 U | 6.1 UJ | 31 U | 6.4 U | 6.1 U | 6.6 U | 32 UJ | 7.1 U | 7.1 U | 36 U | 6.8 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 9.1 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 8.2 U | 1.7 U | 1.6 U | 1.8 U | 8.2 U | 1.9 U | 1.9 U | 9.3 U | 1.8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 14 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 13 U | 2.5 U | 2.4 U | 2.6 U | 13 U | 2.8 U | 2.8 U | 14 U | 2.7 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G692-1 | LW3-G692-2 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G705 | LW3-G706 | LW3-G710 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G719 | LW3-G720 | LW3-G725 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 25 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.5 U | 1.4 UT | 5.3 U | 28 U | 21 U | 11 U | 25 U | 11 U | 16 U | 1.6 U | 4.5 U | 5.9 U | 1.3 U | 23 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.5 U | 1.4 UT | 14 U | 18 U | 1.6 U | 9 U | 4.5 U | 1.4 U | 5 U | 1.6 U | 6.9 U | 3.6 U | 1.3 U | 3.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.5 U | 1.4 UT | 12 U | 15 U | 18 U | 7.5 U | 69 U | 9.7 U | 28 U | 1.6 U | 4.7 U | 18 U | 1.3 U | 33 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 3.4 U | 18 JT | 6.4 U | 8 U | 7.6 U | 3.2 U | 34 U | 7.4 U | 9.6 U | 1.6 U | 1.6 U | 7.9 U | 4.3 U | 12 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.5 U | 1.4 UT | 20 U | 19 U | 15 U | 3 U | 21 U | 4.4 U | 7.6 U | 1.6 U | 1.6 U | 1.7 U | 1.3 U | 1.7 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 16 U | 110 T | 9.3 U | 5.7 U | 6.6 U | 5.4 U | 8.3 U | 5.6 U | 4.1 U | 2.1 J | 4.5 U | 4.8 U | 3.4 | 6.5 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 6.3 U | 12 JT | 11 U | 4.7 U | 5.7 U | 5.2 U | 8.4 U | 5.2 U | 3.7 U | 3.2 | 7.6 J | 5.4 U | 3.6 | 6.8 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.5 U | 1.4 UT | 8.4 U | 3.4 U | 4.3 U | 3.7 U | 6.8 U | 3.7 U | 2.9 U | 1.6 U | 1.6 U | 1.7 U | 1.3 U | 1.7 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.5 U | 1.4 UT | 1.7 U | 1.6 U | 1.6 U | 1.3 U | 1.6 U | 1.4 U | 1.3 U | 1.6 U | 1.6 U | 1.7 U | 1.3 U | 1.7 U |
| Aroclors | 12767-79-2 | ug/kg | 16 UT | 140 JT | 20 UT | 28 UT | 21 UT | 11 UT | 69 UT | 11 UT | 28 UT | 5.3 JT | 7.6 JT | 18 UT | 7 T | 13.3 T |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.36 | 1.44 T | 1.3 | 1.37 T | 1.35 | 1.49 | 1.34 | 1.42 | 1.48 | 1.49 | 1.6 T | 1.35 | 1.63 | 1.32 |
| Sulfide | 18496-25-8 | mg/kg | | | | | | | | | | | | | | |
| Total organic carbon | TOC | percent | 2.24 | 2.25 T | 2.35 | 2.07 T | 2.19 | 1.39 | 2.11 | 1.56 | 1.52 | 2.31 | 2.22 T | 2.29 | 0.81 | 2.55 |
| Total solids | TSO | percent | 45.6 | 46.7 T | 38.5 | 42.1 | 43 | 52.9 T | 41.5 | 47.6 | 49.5 | 41.2 | 41.4 T | 39.4 | 62.2 | 39.6 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.276 J | 0.442 JT | | | | | | | | | | | | 1.06 |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 0.0181 U | 0.903 JT | | | | | | | | | | | | 0.926 J |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 4.23 | 8.03 T | | | | | | | | | | | | 6.29 |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 39.6 | 78.4 T | | | | | | | | | | | | 36.9 |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 173 | 239 T | | | | | | | | | | | | 156 |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 1.53 | 2.39 T | | | | | | | | | | | | 1.21 |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 1.95 J | 4.75 T | | | | | | | | | | | | 2.03 J |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 3.04 J | 7.29 T | | | | | | | | | | | | 4.48 |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 7.5 | 9.28 T | | | | | | | | | | | | 9.32 |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 10.1 | 13.2 T | | | | | | | | | | | | 14 |
| Total PCDD/F | TOTPCDD_F | pg/g | 241 JT | 364 JT | | | | | | | | | | | | 232 JT |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.0155 U | 0.019 UT | | | | | | | | | | | | 0.0942 U |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.0181 U | 0.154 JT | | | | | | | | | | | | 0.163 J |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.081 J | 0.106 JT | | | | | | | | | | | | 0.209 J |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 0.522 J | 0.764 JT | | | | | | | | | | | | 0.805 J |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 0.311 J | 0.515 JT | | | | | | | | | | | | 0.64 J |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 14.1 | 26.4 T | | | | | | | | | | | | 16.5 |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.656 J | 0.92 T | | | | | | | | | | | | 0.16 J |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.423 J | 1.45 JT | | | | | | | | | | | | 0.0673 J |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.185 J | 0.569 JT | | | | | | | | | | | | 0.102 J |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 0.711 J | 2.26 JT | | | | | | | | | | | | 0.265 J |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.23 J | 0.729 JT | | | | | | | | | | | | 0.133 U |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0211 U | 0.0279 UT | | | | | | | | | | | | 0.0423 U |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.0666 U | 0.252 JT | | | | | | | | | | | | 0.203 J |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 1.98 J | 2.88 JT | | | | | | | | | | | | 2.61 J |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.187 U | 0.489 JT | | | | | | | | | | | | 0.19 J |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 0.535 JT | 1.3 JT | | | | | | | | | | | | 0.668 JT |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 1.19 JT | 1.8 JT | | | | | | | | | | | | 0.668 JA |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.7 | 0.32 T | 0 | 0.22 T | 0 | 0.81 | 0 | 0.02 | 0 | 0.88 | 1.58 T | 1.14 | 0.26 | 0.55 |
| Fine gravel | GS_FG | percent | 1.18 | 0.865 T | 4.16 | 2.03 T | 1.54 | 0.26 | 3.32 | 0.32 | 0.17 | 1.42 | 1.67 T | 1.65 | 0.4 | 1.45 |
| Very coarse sand | GS_VCS | percent | 0.55 | 0.685 T | 1.89 | 1.78 T | 1.95 | 0.57 | 2.17 | 0.75 | 0.81 | 0.69 | 1.04 T | 1.17 | 0.44 | 1.57 |
| Coarse sand | GS_CS | percent | 0.28 | 0.475 T | 1.18 | 0.74 T | 0.67 | 0.61 | 0.91 | 0.53 | 1.06 | 0.57 | 0.73 T | 0.71 | 6 | 0.97 |
| Medium sand | GS_MS | percent | 0.76 | 0.905 T | 1.42 | 0.8 T | 0.63 | 2.46 | 0.87 | 1.03 | 1.09 | 0.69 | 0.987 T | 0.81 | 36.2 | 1.03 |
| Fine sand | GS_FS | percent | 2.89 | 3.33 T | 1.82 | 2.47 T | 2.99 | 23.6 | 2.7 | 25.4 | 25.6 | 2.42 | 2.95 T | 6.88 | 21.6 | 3.59 |
| Very fine sand | GS_VFS | percent | 9.12 | 9.89 T | 3.72 | 14.4 T | 14.6 | 24.2 | 11.2 | 19.3 | 36.1 | 11.8 | 11.9 T | 14 | 8.4 | 12.9 |
| Fines | GS_FINES | percent | 84.8 T | 79.9 T | 88.2 T | 78.8 T | 78.3 T | 52.1 T | 79.5 T | 53.6 T | 37.7 T | 84.2 T | 78.2 T | 79.9 T | 27.3 T | 81.2 T |
| Coarse silt | GS_CSILT | percent | 26.6 | 29.8 T | 33.1 | 31 T | 38.2 | 21.9 | 33.9 | 24.4 | 14.7 | 47.4 | 42.5 T | 42.9 | 10.1 | 37.4 |
| Medium silt | GS_MSILT | percent | 22.5 | 20.8 T | 20.4 | 19.2 T | 18.6 | 12 | 20 | 12.71 | 10.1 | 12.2 | 14.9 T | 14.5 | 6.48 | 20.4 |
| Fine silt | GS_FSILT | percent | 14.5 | 12.2 T | 13.8 | 11 T | 9.02 | 6.85 | 11.3 | 6.35 | 4.79 | 10.4 | 9.11 T | 9.4 | 3.94 | 10.5 |
| Very fine silt | GS_VFSILT | percent | 7.35 | 6.73 T | 4.53 | 3.88 T | 2.7 | 2.52 | 2.9 | 2.08 | 2.22 | 5.6 | 4.71 T | 5.2 | 1.01 | 2.91 |
| 8-9 Phi clay | GS_CCLAY | percent | 5.34 | 3.56 T | 7.08 | 6.4 T | 4.91 | 4.59 | 5.47 | 4.06 | 3.32 | 3.54 | 2.85 T | 3.44 | 2.7 | 5.11 |
| >9 Phi clay | GS_MFCLAY | percent | 8.46 | 6.77 T | 9.26 | 7.27 T | 4.84 | 4.26 | 5.9 | 3.95 | 2.61 | 5.03 | 4.15 T | 4.48 | 3.03 | 4.83 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G692-1 | LW3-G692-2 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G705 | LW3-G706 | LW3-G710 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G719 | LW3-G720 | LW3-G725 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 25 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 28300 | 26400 T | 30000 | 32300 T | 30300 | 26700 | 25800 | 24100 | 23800 | 32300 | 28400 T | 31500 | 17700 | 33600 |
| Antimony | 7440-36-0 | mg/kg | 0.33 J | 0.345 JT | 0.28 J | 0.255 JT | 0.25 J | 0.23 J | 0.27 J | 0.22 J | 0.41 J | 0.38 J | 0.38 JT | 0.36 J | 0.19 J | 0.25 J |
| Arsenic | 7440-38-2 | mg/kg | 3.01 | 2.83 T | 5.3 | 4.85 T | 4.91 | 4.15 | 4.52 | 4.52 | 4.16 | 3.02 | 2.91 T | 3.26 | 3.57 | 5.07 |
| Cadmium | 7440-43-9 | mg/kg | 0.264 | 0.259 T | 0.267 J | 0.215 JT | 0.209 J | 0.154 J | 0.18 J | 0.174 J | 0.16 J | 0.249 | 0.269 T | 0.263 | 0.106 J | 0.213 J |
| Chromium | 7440-47-3 | mg/kg | 27.9 | 26.3 T | 33.4 | 31.3 T | 31.8 | 27.2 | 25.5 | 28.8 | 26.9 | 29.2 | 28.1 T | 30.8 | 19.6 | 33.7 |
| Copper | 7440-50-8 | mg/kg | 38.7 | 37.9 T | 80.8 | 61.2 T | 39.8 | 42.2 | 180 | 34.7 | 32.3 | 39.7 | 39.8 T | 40.9 | 24.2 | 43.3 |
| Lead | 7439-92-1 | mg/kg | 15.3 | 15.1 T | 16 | 11.2 T | 10.7 | 9.97 | 10.5 | 10.6 | 9.88 | 12.2 | 12.8 T | 12.9 | 7.43 | 11.4 |
| Mercury | 7439-97-6 | mg/kg | 0.071 | 0.086 T | 0.073 | 0.061 T | 0.055 | 0.071 | 0.058 | 0.066 | 0.038 | 0.064 | 0.0945 T | 0.113 | 0.038 | 0.061 |
| Nickel | 7440-02-0 | mg/kg | 22.5 | 22.1 T | 25.5 | 25.2 T | 24.8 | 23.2 | 20.7 | 23.9 | 24 | 24.5 | 23.8 T | 26.2 | 22.3 | 25.9 |
| Silver | 7440-22-4 | mg/kg | 0.25 | 0.22 T | 0.27 | 0.185 T | 0.17 | 0.15 | 0.21 | 0.16 | 0.12 | 0.19 | 0.185 T | 0.2 | 0.13 | 0.18 |
| Zinc | 7440-66-6 | mg/kg | 111 | 110 T | 136 | 120 T | 111 | 100 | 165 | 101 | 90.8 | 113 | 110 T | 110 | 80.1 | 116 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 3.6 | 3 JT | 2.3 J | 0.98 J | 1.9 J | 1.6 J | 4.5 | 1.4 J | 1.6 J | 1.3 J | 1.6 J | 1.3 J | 1 J | 1.5 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 6.8 | 5.1 T | 3.2 J | 1.2 J | 2.7 J | 1.9 J | 5.5 | 2.1 J | 2 J | 1.9 J | 2.6 J | 1.8 J | 1.5 J | 2.4 J |
| Acenaphthene | 83-32-9 | ug/kg | 11 | 9 T | 2.2 J | 0.95 J | 2.4 J | 2.6 | 2.8 J | 1.2 J | 2.1 J | 1.2 J | 1.9 J | 1.4 J | 1.8 J | 1.7 J |
| Acenaphthylene | 208-96-8 | ug/kg | 6.7 | 4.7 T | 3.4 | 1.2 J | 2.6 J | 1.7 J | 2.8 J | 2.1 J | 1.9 J | 2.1 J | 2 J | 2.3 J | 1.4 J | 2.6 J |
| Anthracene | 120-12-7 | ug/kg | 15 | 12 T | 4.6 | 1.8 J | 3.7 | 7.2 | 2.4 J | 3.6 | 4.3 | 3.3 | 3.6 | 3.6 | 2.8 | 4.1 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 43 | 40 T | 21 | 8.8 | 13 | 14 | 17 | 11 | 10 | 11 | 12 | 12 | 8 | 16 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 41 | 34 T | 26 | 9.2 | 15 | 13 | 18 | 11 | 11 | 12 | 13 | 12 | 8.4 | 18 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 60 | 93 T | 44 | 14 | 22 | 17 | 26 | 16 | 16 | 17 | 19 | 21 | 13 | 27 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 36 | 44 T | 27 | 8.5 | 14 | 9.7 | 17 | 10 | 9.7 | 11 | 11 J | 12 | 7.8 | 17 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 38 | 28 T | 27 | 10 | 15 | 10 | 17 | 11 | 12 | 12 | 13 | 10 | 8.6 | 19 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 19 | 23 T | 14 | 3.8 | 5.9 | 5.5 | 8 | 4.6 | 5.5 | 4.4 | 8.8 | 5.6 | 3.5 | 8.6 |
| Chrysene | 218-01-9 | ug/kg | 63 | 77 T | 41 | 11 | 19 | 17 | 25 | 16 | 16 | 16 | 17 | 16 | 12 | 24 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 5.6 | 5.4 T | 4 | 1.8 J | 1.9 J | 1.8 J | 2.7 J | 1.3 J | 1.7 J | 1.8 J | 2 J | 1.5 J | 1.2 J | 2.5 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 5.9 | 4.4 T | 1.4 J | 0.52 J | 1.2 J | 1.5 J | 1.3 J | 0.69 J | 1.3 J | 0.83 J | 1.2 J | 0.94 J | 1.1 J | 1 J |
| Fluoranthene | 206-44-0 | ug/kg | 150 | 100 T | 56 | 17 | 34 | 30 | 43 | 27 | 28 | 25 | 34 | 30 | 20 | 40 |
| Fluorene | 86-73-7 | ug/kg | 15 | 12 T | 3.3 | 1.1 J | 3 | 3.5 | 3.4 | 2.1 J | 2.6 J | 1.8 J | 2.7 J | 1.8 J | 1.6 J | 2.2 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 36 | 28 T | 23 | 9 | 12 | 8.9 | 14 | 8.2 | 10 | 11 | 12 | 9.2 | 7.7 | 17 |
| Naphthalene | 91-20-3 | ug/kg | 20 | 12 T | 11 | 4.8 | 9.3 | 5.7 | 11 | 7.5 | 5.9 | 6.5 | 7.4 | 8.1 | 5.8 | 8.1 |
| Perylene | 198-55-0 | ug/kg | 80 | 40 T | 50 | 12 | 25 | 34 | 22 | 19 | 15 | 13 | 12 | 14 | 33 | 20 |
| Phenanthrene | 85-01-8 | ug/kg | 78 | 64 T | 25 | 8.3 | 18 | 26 | 25 | 13 | 21 | 12 | 17 | 14 | 13 | 19 |
| Pyrene | 129-00-0 | ug/kg | 140 | 100 T | 59 | 19 | 34 | 33 | 44 | 28 | 32 | 26 | 32 | 33 | 22 | 43 |
| High Molecular Weight PAH | HPAH | ug/kg | 600 T | 530 T | 320 T | 100 JT | 170 JT | 150 JT | 210 JT | 130 JT | 140 JT | 140 JT | 160 JT | 150 JT | 100 JT | 220 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 150 T | 120 T | 53 JT | 19 JT | 42 JT | 49 JT | 53 JT | 32 JT | 40 JT | 29 JT | 37 JT | 33 JT | 28 JT | 40 JT |
| Total PAHs | 130498-29-2 | ug/kg | 750 T | 650 T | 370 JT | 120 JT | 210 JT | 200 JT | 270 JT | 170 JT | 180 JT | 170 JT | 200 JT | 180 JT | 130 JT | 260 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 53 J | 42 JT | 31 J | 15 J | 31 J | 23 J | 26 J | 20 J | 15 J | 7 | 22 J | 8.1 | 10 J | 35 J |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 20 | 11 T | 3.1 J | 0.21 U | 2.5 J | 2 J | 2.4 J | 1.8 J | 1.4 J | 1.6 J | 3.8 | 1.8 J | 2.4 J | 3.7 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 80 | 61 T | 33 | 12 | 21 | 23 | 26 | 20 | 18 | 18 | 21 | 19 | 14 | 25 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 11 | 7.1 T | 3.4 | 1.6 J | 3.4 | 4 | 4.7 | 2.3 J | 2.5 J | 2.4 J | 2.8 J | 2.3 J | 2.5 | 3.3 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 58 | 39 T | 22 | 7.2 | 14 | 22 | 21 | 13 | 13 | 8.9 | 12 | 12 | 8.3 | 15 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 43 | 29 T | 25 | 7.9 | 18 | 25 | 14 | 15 | 13 | 10 | 10 | 12 | 11 | 15 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 26 | 14 T | 11 | 2.9 J | 5.9 | 4.8 | 8.5 | 3.7 | 5 | 4.6 | 5.2 | 5.8 | 4.9 | 6.9 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 56 | 35 T | 23 | 10 | 17 | 16 | 22 | 15 | 13 | 12 | 16 | 17 | 10 | 22 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 25 | 15 T | 6.5 | 2.3 J | 4.6 | 3.9 | 10 | 5.2 | 3.7 | 4.2 | 5.8 | 4.3 | 3.3 | 6.6 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 22 | 13 T | 6.6 | 2.3 J | 5.4 | 4.3 | 10 | 3.9 | 3.7 | 4.1 | 5 | 3.4 | 2.9 | 4.2 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 60 | 36 T | 28 | 6 | 15 | 13 | 16 | 12 | 10 | 9.1 | 10 | 11 | 9.4 | 14 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 38 | 26 T | 22 | 6.9 | 17 | 18 | 16 | 12 | 9.6 | 11 | 12 | 13 | 8.8 | 15 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 30 | 14 T | 8.6 | 3.2 | 5.3 | 0.21 U | 8.6 | 4.2 | 4.5 | 4.8 | 5.6 | 5.3 | 4 | 7.8 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 39 | 28 T | 19 | 6.3 | 12 | 14 | 16 | 8.9 | 8.8 | 7.7 | 9.1 | 9.1 | 9 | 13 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 39 | 24 T | 10 | 3.6 | 10 | 6.8 | 8.2 | 8 | 4 | 5.2 | 7.1 | 6.4 | 8.1 | 9.1 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 23 | 13 T | 6.1 | 1.6 J | 5.9 | 4 | 9.4 | 3.9 | 3.5 | 4.1 | 5.7 | 3.7 | 3.1 | 4.7 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 56 | 36 T | 21 | 6 | 15 | 13 | 16 | 12 | 9.3 | 11 | 12 | 11 | 11 | 16 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 25 | 17 T | 9.7 | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 32 | 16 T | 7.2 | 2 J | 6.3 | 5.1 | 8.1 | 6.2 | 3.8 | 3.8 | 5.3 | 3.7 | 5 | 6.2 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 28 | 19 T | 14 | 5.3 | 8.1 | 12 | 11 | 6.4 | 6.3 | 7 | 8.2 | 0.75 U | 6 | 12 |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 9.32 T | 8.67 T | | | | | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | 29.3 T | 21.3 T | | | | | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | 12 T | 10.9 T | | | | | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | 33.5 T | 30.4 T | | | | | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | 95.9 T | 89.2 T | | | | | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | 22.1 T | 22.9 T | | | | | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | 9.88 UT | 9.73 UT | | | | | | | | | | | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G692-1 | LW3-G692-2 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G705 | LW3-G706 | LW3-G710 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G719 | LW3-G720 | LW3-G725 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 25 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 190 T | 210 T | | | | | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | 12.6 T | 12.9 JT | | | | | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | 9.88 UT | 9.73 UT | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | 105 T | 101 T | | | | | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | 151 T | 124 T | | | | | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | 111 T | 89.2 T | | | | | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | 233 T | 186 T | | | | | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | 47.7 T | 39.2 T | | | | | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 228 T | 201 T | | | | | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | 136 T | 121 T | | | | | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | 20.2 T | 16.5 T | | | | | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | 44.4 T | 40.9 T | | | | | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | 70 T | 62.5 T | | | | | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | 496 T | 439 T | | | | | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | 369 T | 318 T | | | | | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | 9.62 T | 8.73 T | | | | | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | 180 T | 151 T | | | | | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | 5.13 T | 4.86 UT | | | | | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | 83.3 T | 69.7 T | | | | | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 452 T | 383 T | | | | | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | 168 T | 135 T | | | | | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | 507 T | 395 T | | | | | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | 525 T | 419 T | | | | | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | 64.9 T | 49.5 T | | | | | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | 29.9 T | 22.2 T | | | | | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | 205 T | 162 T | | | | | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | 116 T | 92.1 T | | | | | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | 43.4 T | 37 T | | | | | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | 638 T | 488 T | | | | | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | 92.6 T | 71.3 T | | | | | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | 9.37 T | 7.52 T | | | | | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | 8.57 T | 6.77 JT | | | | | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | 356 T | 281 T | | | | | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | 768 T | 618 T | | | | | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | 26.2 T | 21.6 T | | | | | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | 648 T | 516 T | | | | | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | 19.6 T | 16 T | | | | | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | 8.07 T | 7.3 T | | | | | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | 304 T | 236 T | | | | | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | 68.5 T | 61 T | | | | | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | 12.3 T | 11 T | | | | | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | 3.36 JT | 2.66 JT | | | | | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | 121 T | 92.2 T | | | | | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | 418 T | 329 T | | | | | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | 159 T | 131 T | | | | | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 308 T | 243 T | | | | | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | 169 T | 135 T | | | | | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | 13 T | 10.1 T | | | | | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | 1030 T | 822 T | | | | | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G692-1 | LW3-G692-2 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G705 | LW3-G706 | LW3-G710 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G719 | LW3-G720 | LW3-G725 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 25 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 8.44 T | 7.67 JT | | | | | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 749 T | 587 T | | | | | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | 11.7 T | 9.88 T | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | 274 T | 213 T | | | | | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | 487 T | 399 T | | | | | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | 19.1 T | 18.1 T | | | | | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | 26.1 T | 23 T | | | | | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | 261 T | 216 T | | | | | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | 845 T | 695 T | | | | | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | 77.1 T | 64.4 T | | | | | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | 47.5 T | 37.8 T | | | | | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | 1130 T | 919 T | | | | | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | 15.2 T | 11 T | | | | | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | 6.24 T | 4.96 T | | | | | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | 14.6 T | 11.5 T | | | | | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | 38.2 T | 32.3 T | | | | | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | 9.83 T | 8.51 T | | | | | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | 14.8 T | 12.7 T | | | | | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | 32.3 T | 27 T | | | | | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | 6.07 T | 4.63 JT | | | | | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | 161 T | 134 T | | | | | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | 41.9 T | 33.9 T | | | | | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | 88.1 T | 76.4 T | | | | | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | 326 T | 274 T | | | | | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | 40 T | 35.2 T | | | | | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | 56.5 T | 48 T | | | | | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | 173 T | 150 T | | | | | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | 167 T | 142 T | | | | | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | 42.8 T | 37.5 T | | | | | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 1230 T | 1040 T | | | | | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | 1000 T | 872 T | | | | | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | 12 T | 11.2 T | | | | | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | 212 T | 189 T | | | | | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | 51.3 T | 42.1 T | | | | | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | 239 T | 206 T | | | | | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | 36 T | 31.6 T | | | | | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | 5.82 T | 5.37 T | | | | | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | 5.92 T | 5.96 T | | | | | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | 310 T | 268 T | | | | | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | 1270 T | 1090 T | | | | | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | 37.1 T | 33.7 T | | | | | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | 99.3 T | 85.1 T | | | | | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | 21.4 T | 17.6 T | | | | | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | 115 T | 95.3 T | | | | | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | 43.4 T | 37.4 T | | | | | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | 0.947 UT | 1.44 UT | | | | | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | 376 T | 316 T | | | | | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | 101 T | 88.6 T | | | | | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | 69.1 T | 59.1 T | | | | | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | 9.7 T | 8.01 T | | | | | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | 462 T | 387 T | | | | | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | 20.5 T | 17.7 T | | | | | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | 58.8 T | 53.5 T | | | | | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | 264 T | 225 T | | | | | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | 104 T | 93 T | | | | | | | | | | | | |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G692-1 | LW3-G692-2 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G705 | LW3-G706 | LW3-G710 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G719 | LW3-G720 | LW3-G725 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 25 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 215 T | 195 T | | | | | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | 992 T | 841 T | | | | | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 639 T | 554 T | | | | | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | 244 T | 215 T | | | | | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | 49 T | 40.2 T | | | | | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | 14.5 T | 11 T | | | | | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | 80.7 T | 66.9 T | | | | | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | 16.1 T | 14.1 JT | | | | | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | 49.6 T | 43.9 T | | | | | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | 289 T | 209 T | | | | | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | 99.3 T | 78.8 T | | | | | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | 462 JT | 273 T | | | | | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | 10.8 T | 8.06 T | | | | | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | 18.8 T | 16.9 T | | | | | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | 503 JT | 274 T | | | | | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | 47.2 JT | 34.1 T | | | | | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | 50.3 JT | 30.6 T | | | | | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | 118 JT | 51.5 T | | | | | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | 4.94 UT | 4.86 UT | | | | | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | 11.3 T | 10.9 JT | | | | | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | 568 JT | 143 T | | | | | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | 56 JT | 16.2 T | | | | | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | 200 JT | 46.4 T | | | | | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | 272 JT | 130 T | | | | | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | 26300 JT | 21000 JT | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 0.654 JT | 0.502 JT | | | | | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 50.6 T | 40.9 T | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 459 T | 466 JT | | | | | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 2100 T | 1800 T | | | | | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 5160 JT | 4110 JT | | | | | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 6290 T | 5060 JT | | | | | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 5780 T | 4960 T | | | | | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 3770 T | 3230 JT | | | | | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 1610 JT | 987 JT | | | | | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 824 JT | 206 T | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 2 | 2.1 JT | 0.79 J | 0.25 U | 0.24 U | 0.3 U | 0.96 J | 0.21 U | 1.8 U | 0.25 U | 0.31 U | 0.26 U | 0.16 U | 0.21 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.23 U | 0.28 UT | 0.26 U | 0.054 U | 0.054 U | 0.046 U | 0.056 U | 0.21 U | 0.2 U | 0.19 U | 0.055 U | 0.059 U | 0.18 U | 0.058 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.85 U | 6.9 JT | 0.93 | 0.45 U | 0.43 U | 0.46 U | 0.76 U | 0.46 U | 0.061 U | 0.5 U | 0.72 U | 0.46 U | 0.32 U | 0.53 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 5.5 | 3.8 T | 0.82 | 0.8 | 0.98 | 1.2 | 1 | 0.52 | 0.72 | 1.3 | 1 | 0.71 | 0.28 U | 1.2 |
| 4,4'-DDE | 72-55-9 | ug/kg | 3.6 | 2.7 JT | 1.8 | 1.6 | 1.9 | 1.6 | 1.8 | 1.1 | 1.1 | 2.4 J | 1.9 | 1.5 | 0.67 | 2.3 |
| 4,4'-DDT | 50-29-3 | ug/kg | 11 | 0.87 UT | 2.4 | 0.59 U | 0.61 U | 0.51 U | 3.4 NJ | 1.7 J | 0.18 U | 1.8 NJ | 0.64 U | 0.45 U | 0.87 J | 0.83 U |
| Aldrin | 309-00-2 | ug/kg | 0.14 U | 0.22 UT | 0.3 U | 0.46 U | 0.53 U | 0.37 | 0.5 U | 0.37 | 0.33 U | 0.51 | 0.44 U | 0.51 U | 0.12 U | 0.62 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.29 J | 0.14 UT | 0.19 J | 0.25 | 0.19 J | 0.13 J | 0.2 J | 0.19 J | 0.15 NJ | 0.34 J | 0.28 J | 0.43 NJ | 0.074 J | 0.18 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.11 U | 0.1 UT | 0.13 U | 0.85 J | 0.12 U | 0.097 U | 0.12 U | 0.11 U | 0.097 U | 0.12 U | 0.12 U | 0.13 U | 0.097 U | 0.13 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.12 U | 0.28 UT | 0.16 U | 0.037 U | 0.036 U | 0.031 U | 0.12 U | 0.033 U | 0.2 U | 0.038 U | 0.22 U | 0.26 U | 0.056 U | 0.039 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.16 U | 0.15 UT | 0.19 U | 0.17 U | 0.17 U | 0.14 U | 0.17 U | 0.15 U | 0.14 U | 0.17 U | 0.17 U | 0.21 U | 0.14 U | 0.18 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.13 U | 0.035 UT | 0.22 NJ | 0.037 U | 0.13 U | 0.29 J | 0.25 U | 0.057 U | 0.099 U | 0.16 J | 0.078 U | 0.081 U | 0.039 U | 0.067 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.51 U | 0.52 UT | 0.73 U | 0.38 U | 0.39 U | 0.38 U | 0.49 U | 0.37 U | 0.38 U | 0.35 U | 0.47 U | 0.32 U | 0.26 U | 0.53 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.12 U | 0.12 UT | 0.15 U | 0.13 U | 0.13 U | 0.11 U | 0.14 U | 0.12 U | 0.11 U | 0.14 U | 0.14 U | 0.14 U | 0.11 U | 0.14 U |
| Dieldrin | 60-57-1 | ug/kg | 0.49 | 0.43 UT | 0.34 | 0.44 | 0.51 U | 0.34 J | 0.037 U | 0.24 | 0.3 | 0.25 U | 0.36 U | 0.54 U | 0.14 J | 0.47 |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.22 U | 0.21 UT | 0.26 U | 0.24 U | 0.24 U | 0.2 U | 0.07 U | 0.21 U | 0.22 U | 0.25 U | 0.24 U | 0.29 U | 0.058 U | 0.26 U |
| Endrin | 72-20-8 | ug/kg | 0.22 U | 0.084 UT | 0.26 U | 0.22 U | 0.083 U | 0.071 U | 0.25 U | 0.074 U | 0.071 U | 0.25 U | 0.24 U | 0.23 U | 0.2 U | 0.11 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.41 NJ | 0.56 JT | 0.26 U | 0.24 U | 0.24 U | 0.23 NJ | 0.25 U | 0.21 U | 0.2 NJ | 0.25 U | 0.24 U | 0.26 U | 0.2 U | 0.2 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.24 U | 0.18 UT | 0.66 NJ | 0.27 NJ | 0.3 U | 0.23 U | 0.25 U | 0.24 U | 0.15 U | 0.2 U | 0.44 U | 0.36 U | 0.12 U | 0.22 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.28 U | 0.2 UT | 0.26 U | 0.24 U | 0.24 U | 0.062 U | 0.25 U | 0.065 U | 0.2 U | 0.25 U | 0.25 U | 0.26 U | 0.062 U | 0.078 U |
| Heptachlor | 76-44-8 | ug/kg | 0.083 U | 0.78 JT | 0.099 U | 0.089 U | 0.088 U | 0.076 U | 0.092 U | 0.079 U | 0.2 U | 0.092 U | 0.091 U | 0.097 U | 0.076 U | 0.096 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.19 U | 0.44 UT | 0.64 NJ | 0.24 U | 0.24 U | 0.2 U | 0.25 U | 0.21 U | 0.2 U | 0.25 U | 0.24 U | 0.26 U | 0.16 U | 0.26 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.83 U | 0.6 UT | 0.82 U | 0.088 U | 0.43 U | 0.43 U | 0.63 U | 0.6 U | 0.34 U | 0.44 U | 0.24 U | 0.39 U | 0.45 U | 0.59 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G692-1 | LW3-G692-2 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G705 | LW3-G706 | LW3-G710 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G719 | LW3-G720 | LW3-G725 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 25 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.14 U | 0.13 UT | 0.16 U | 0.14 U | 0.14 U | 0.12 U | 0.15 U | 0.13 U | 0.12 U | 0.15 U | 0.15 U | 0.16 U | 0.12 U | 0.16 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.067 U | 0.063 UT | 0.26 U | 0.24 U | 0.29 U | 0.061 U | 0.25 U | 0.064 U | 0.85 U | 0.23 J | 0.3 U | 0.46 U | 0.061 U | 0.4 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.98 JT | 0.52 UT | 0.22 JT | 0.32 JT | 0.55 JT | 0.93 JT | 0.46 T | 0.33 T | 0.31 T | 0.58 JT | 0.59 JT | 0.46 UT | 0.21 T | 0.68 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.29 JT | 0.28 UT | 0.19 JT | 0.25 T | 0.19 JT | 0.13 JT | 0.2 JT | 0.19 JT | 0.15 JT | 0.34 JT | 0.28 JT | 0.43 JT | 0.074 JT | 0.26 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 7.5 T | 5.9 JT | 1.6 JT | 0.8 T | 0.98 T | 1.2 T | 2 JT | 0.52 T | 0.72 T | 1.3 T | 1 T | 0.71 T | 0.28 UT | 1.2 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 22 T | 16 JT | 6.7 JT | 2.4 T | 2.9 T | 2.8 T | 7.2 JT | 3.3 JT | 1.8 T | 5.5 JT | 2.9 T | 2.2 T | 1.5 JT | 3.5 T |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 3.6 T | 2.7 JT | 1.8 T | 1.6 T | 1.9 T | 1.6 T | 1.8 T | 1.1 T | 1.1 T | 2.4 JT | 1.9 T | 1.5 T | 0.67 T | 2.3 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 11 T | 6.9 JT | 3.3 T | 0.59 UT | 0.61 UT | 0.51 UT | 3.4 JT | 1.7 JT | 0.18 UT | 1.8 JT | 0.72 UT | 0.46 UT | 0.87 JT | 0.83 UT |
| Toxaphene | 8001-35-2 | ug/kg | 35 U | 61 UT | 27 U | 16 U | 22 U | 15 U | 34 U | 7.4 U | 20 U | 24 U | 45 U | 21 U | 9.9 U | 29 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.58 J | 0.37 UT | 0.54 U | 0.32 J | 0.36 J | 0.4 | 0.46 | 0.33 | 0.31 | 0.33 U | 0.39 J | 0.32 U | 0.21 | 0.47 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.4 NJ | 0.12 UT | 0.15 U | 0.17 U | 0.19 J | 0.24 J | 0.18 U | 0.16 U | 0.14 U | 0.19 J | 0.2 J | 0.15 U | 0.048 U | 0.21 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 130 J | 115 JT | 94 J | 66 JT | 69 J | 57 J | 82 J | 53 J | 50 J | 82 J | 60.8 JT | 79 J | 33 J | 86 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 110 J | 89 JT | 59 J | 38.5 JT | 40 J | 32 J | 45 J | 34 J | 20 J | 46 J | 41.5 JT | 48 J | 22 J | 46 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 480 J | 450 JT | 520 J | 443 JT | 510 J | 340 J | 500 J | 350 J | 340 J | 480 J | 365 JT | 450 J | 180 J | 620 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 270 J | 235 JT | 240 J | 165 JT | 180 J | 120 J | 190 J | 140 J | 97 J | 180 J | 155 JT | 180 J | 83 J | 210 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 610 JA | 565 JA | 614 JA | 509 JA | 579 JA | 397 JA | 582 JA | 403 JA | 390 JA | 562 JA | 426 JA | 529 JA | 213 JA | 706 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 380 JA | 324 JA | 299 JA | 204 JA | 220 JA | 152 JA | 235 JA | 174 JA | 117 JA | 226 JA | 197 JA | 228 JA | 105 JA | 256 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.44 U | 0.42 UT | 0.54 U | 0.5 U | 0.48 U | 0.39 U | 7.5 J | 0.43 U | 0.41 U | 0.5 U | 0.51 U | 0.52 U | 0.33 U | 0.51 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.36 U | 0.34 UT | 0.44 U | 0.4 U | 0.39 U | 0.32 U | 9.7 J | 1.5 U | 0.34 U | 0.41 U | 0.41 U | 0.42 U | 0.27 U | 0.42 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.2 U | 1.1 UT | 1.5 U | 1.3 U | 1.3 U | 1.1 U | 4.1 U | 1.2 U | 1.1 U | 1.4 U | 1.4 U | 1.4 U | 0.86 U | 1.4 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.24 U | 0.23 UT | 0.29 U | 0.29 U | 0.25 U | 0.23 U | 0.43 U | 0.25 U | 0.28 U | 0.27 U | 0.27 U | 0.28 U | 0.18 U | 0.27 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.1 U | 1.1 UT | 6.5 U | 1.2 U | 5.8 U | 1 U | 6.1 U | 5.3 U | 5.1 U | 1.3 U | 1.2 U | 1.3 U | 1 U | 6.3 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 6.1 UJ | 5.6 UJT | 36 U | 6.5 UJ | 32 U | 5.5 U | 34 U | 29 U | 28 U | 6.7 UJ | 6.6 UJ | 7 UJ | 5.5 U | 35 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 19 U | 18 UT | 110 U | 21 U | 99 U | 17 U | 110 U | 89 U | 86 U | 21 U | 21 U | 22 U | 17 U | 110 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.2 U | 2.1 UT | 13 U | 2.4 U | 12 U | 2 U | 13 U | 11 U | 11 U | 2.5 U | 2.4 U | 2.6 U | 2 U | 13 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.7 U | 1.6 UT | 9.7 U | 1.8 U | 8.7 U | 1.5 U | 9.1 U | 7.9 U | 7.6 U | 1.9 U | 1.8 U | 2 U | 1.5 U | 9.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.7 U | 1.6 UT | 9.7 U | 1.8 U | 8.7 U | 1.5 U | 9.1 U | 7.9 U | 7.6 U | 1.9 U | 1.8 U | 2 U | 1.5 U | 9.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.6 U | 1.5 UT | 9.1 U | 1.7 U | 8.1 U | 1.4 U | 8.5 U | 7.4 U | 7.1 U | 1.7 U | 1.7 U | 1.8 U | 1.4 U | 8.8 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.6 U | 1.5 UT | 9.1 U | 1.7 U | 8.1 U | 1.4 U | 8.5 U | 7.4 U | 7.1 U | 1.7 U | 1.7 U | 1.8 U | 1.4 U | 8.8 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 20 J | 16 JT | 10 J | 5.8 J | 17 J | 15 | 15 J | 9.9 J | 18 J | 12 J | 13 J | 13 J | 3.7 J | 20 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 20 U | 19 UT | 120 U | 22 U | 110 U | 18 U | 110 U | 95 U | 91 U | 22 U | 22 U | 23 U | 18 U | 120 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 5.5 U | 0.32 UT | 5.4 U | 4.8 U | 0.37 U | 3.9 U | 17 J | 4.3 U | 8.8 NJ | 0.38 U | 3.6 NJ | 0.4 U | 0.96 J | 0.39 U |
| Phenol | 108-95-2 | ug/kg | 7.6 J | 7.1 JT | 13 U | 6.9 J | 12 U | 4.9 J | 13 U | 11 U | 11 U | 4.9 J | 6.5 J | 8 J | 4.1 J | 13 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 140 J | 110 JT | 230 | 96 | 200 | 110 | 330 | 140 | 390 | 130 J | 140 J | 150 J | 69 | 200 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 18 | 11 JT | 33 J | 8.3 J | 19 U | 6.2 J | 20 U | 17 U | 17 U | 6.4 J | 5.9 J | 38 | 5.7 J | 21 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 31 U | 49 UT | 52 U | 15 | 46 U | 13 | 48 U | 42 U | 40 U | 34 U | 17 U | 27 U | 17 | 50 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 5.6 J | 7.4 JT | 8.4 U | 3.3 J | 7.6 U | 2.7 J | 7.9 U | 6.8 U | 7.7 J | 6.4 J | 4.1 J | 6.1 J | 3.8 J | 8.2 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.1 U | 1.1 UT | 6.5 U | 2.3 J | 5.8 U | 1 U | 6.1 U | 5.3 U | 5.1 U | 1.3 U | 1.5 J | 1.3 U | 1 U | 6.3 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.9 U | 1.8 UT | 11 U | 2.1 U | 9.9 U | 1.7 U | 11 U | 8.9 U | 8.6 U | 2.1 U | 2.1 U | 2.2 U | 1.7 U | 11 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.9 U | 2.7 UT | 17 U | 3.1 U | 16 U | 2.6 U | 16 U | 14 U | 14 U | 3.2 U | 3.2 U | 3.3 U | 2.6 U | 17 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3.2 U | 3 UT | 19 U | 3.5 U | 17 U | 2.9 U | 18 U | 16 U | 15 U | 3.6 U | 3.5 U | 3.7 U | 2.9 U | 19 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.3 U | 3.1 UT | 20 U | 3.6 U | 18 U | 3 U | 19 U | 16 U | 16 U | 3.7 U | 3.6 U | 3.9 U | 3 U | 19 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3.2 U | 3 UT | 19 U | 3.5 U | 17 U | 2.9 U | 18 U | 16 U | 15 U | 3.6 U | 3.5 U | 3.7 U | 2.9 U | 19 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.7 U | 1.6 UT | 9.7 U | 1.8 U | 8.7 U | 1.5 U | 9.1 U | 7.9 U | 7.6 U | 1.9 U | 1.8 U | 2 U | 1.5 U | 9.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.2 U | 2.1 UT | 13 U | 2.4 U | 12 U | 2 U | 13 U | 11 U | 11 U | 2.5 U | 2.4 U | 2.6 U | 2 U | 13 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.8 U | 1.7 UT | 11 U | 1.9 U | 9.3 U | 1.6 U | 9.7 U | 8.4 U | 8.1 U | 2 U | 2 U | 2.1 U | 1.6 U | 11 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.5 U | 3.3 UT | 21 U | 3.8 U | 19 U | 3.2 U | 20 U | 17 U | 17 U | 3.9 U | 3.9 U | 4.1 U | 3.2 U | 21 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 4.1 UJ | 3.8 UJT | 24 U | R | 22 U | 3.7 U | 23 U | 20 U | 19 U | 4.5 UJ | R | 4.7 UJ | 3.7 U | 24 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.8 U | 2.6 UT | 17 U | R | 15 U | 2.5 U | 16 U | 14 U | 13 U | 3.1 U | R | 3.2 U | 2.5 U | 16 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.8 U | 1.7 UT | 11 U | 1.9 U | 9.3 U | 1.6 U | 9.7 U | 8.4 U | 8.1 U | 2 U | 2 U | 2.1 U | 1.6 U | 11 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2.1 U | 2 UT | 13 U | R | 11 U | 1.9 U | 12 U | 10 U | 9.6 U | 2.4 U | R | 2.5 U | 1.9 U | 12 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.6 U | 1.5 UT | 9.1 U | 1.7 U | 8.1 U | 1.4 U | 8.5 U | 7.4 U | 7.1 U | 1.7 U | 1.7 U | 1.8 U | 1.4 U | 8.8 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 2 U | 1.9 UT | 12 U | 2.2 U | 11 U | 1.8 U | 11 U | 9.5 U | 9.1 U | 2.2 U | 2.2 UJ | 2.3 U | 1.8 U | 12 U |
| Aniline | 62-53-3 | ug/kg | 1.7 U | 1.6 UT | 9.7 U | R | 8.7 U | 1.5 U | 9.1 U | 7.9 U | 7.6 U | 1.9 U | R | 2 U | 1.5 U | 9.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.3 U | 1.2 UT | 7.2 U | 1.3 UJ | 6.4 U | 1.1 U | 6.7 U | 5.8 U | 5.6 U | 1.4 U | 1.4 UJ | 1.4 U | 1.1 U | 6.9 U |
| Benzoic acid | 65-85-0 | ug/kg | 130 J | 98 UT | 630 U | 120 U | 560 U | 96 U | 580 U | 510 U | 490 U | 120 U | 120 U | 130 U | 96 U | 610 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 11 | 8.4 JT | 14 U | 7.2 J | 13 U | 6.1 J | 13 U | 11 U | 11 U | 7.2 J | 7.2 J | 8.4 J | 8.1 J | 15 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.7 U | 1.6 UT | 9.7 U | 1.8 U | 8.7 U | 1.5 U | 9.1 U | 7.9 U | 7.6 U | 1.9 U | 1.8 U | 2 U | 1.5 U | 9.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2.1 U | 2 UT | 13 U | 2.3 U | 11 U | 1.9 U | 12 U | 10 U | 9.6 U | 2.4 U | 2.3 U | 2.5 U | 1.9 U | 12 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.9 U | 2.7 UT | 17 U | 3.1 U | 16 U | 2.6 U | 16 U | 14 U | 14 U | 3.2 U | 3.2 U | 3.3 U | 2.6 U | 17 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G692-1 | LW3-G692-2 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G705 | LW3-G706 | LW3-G710 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G719 | LW3-G720 | LW3-G725 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 25 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 6.2 J | 5 JT | 8.4 U | 1.8 J | 7.6 U | 2.3 J | 7.9 U | 6.8 U | 6.6 U | 2 J | 2.1 J | 2.4 J | 1.4 J | 8.2 U |
| Dibenzofuran | 132-64-9 | ug/kg | 8.9 | 7 T | 2.3 J | 0.85 J | 2 J | 1.3 J | 2.2 J | 1.3 J | 1.2 J | 1.3 J | 2 J | 1.4 J | 1.2 J | 1.9 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.22 U | 0.21 UT | 0.089 U | 0.27 U | 0.24 U | 0.2 U | 0.33 U | 0.21 U | 0.15 U | 0.25 U | 0.24 U | 0.26 U | 0.068 UJ | 0.26 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.44 | 0.5 T | 0.45 U | 0.4 U | 0.53 J | 0.14 U | 16 U | 0.46 J | 0.23 | 3.1 U | 0.29 J | 3.2 U | 0.2 U | 0.3 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 32 U | 30 UT | 190 U | 35 U | 170 U | 29 U | 180 U | 160 U | 150 U | 36 U | 35 U | 37 U | 29 U | 190 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.18 U | 0.17 UT | 0.21 U | 0.19 U | 0.19 U | 0.16 U | 0.2 U | 0.17 U | 0.16 U | 0.2 UJ | 0.2 U | 0.26 U | 0.16 U | 0.21 U |
| Isophorone | 78-59-1 | ug/kg | 1.1 U | 1.1 UT | 6.5 U | 1.2 U | 5.8 U | 1 U | 6.1 U | 5.3 U | 5.1 U | 1.3 U | 1.2 U | 1.3 U | 1 U | 6.3 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.5 U | 2.3 UT | 15 U | 2.6 U | 13 U | 2.2 U | 14 U | 12 U | 12 U | 2.7 U | 2.7 U | 2.8 U | 2.2 U | 14 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.7 U | 6.3 UT | 40 U | 7.2 UJ | 36 U | 6.1 U | 37 U | 32 U | 31 U | 7.4 U | 7.4 UJ | 7.8 U | 6.1 U | 39 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 7.4 J | 5.3 JT | 11 U | 1.9 U | 9.3 U | 1.6 U | 9.7 U | 8.4 U | 8.1 U | 2 U | 2 U | 2.1 U | 1.6 U | 11 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.7 U | 2.5 UT | 16 U | 2.9 U | 14 U | 2.4 U | 15 U | 13 U | 13 U | 3 U | 2.9 U | 3.1 U | 2.4 U | 16 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G738 | LW3-G739 | LW3-G742 | LW3-G743 | LW3-G747 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 24 | 0 - 29 | 0 - 28 | 0 - 22 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 12 U | 8.5 U | 2.6 U | 9.3 U | 32 U | 28 U | 28 U | 7.1 U | 1.3 U | 1.4 U | 2.6 U | 2.7 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.5 U | 1.5 U | 4.1 U | 3.2 U | 1.6 U | 1.5 U | 6.2 U | 5.6 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 16 U | 8.5 U | 9.4 U | 12 U | 9.6 U | 14 U | 48 U | 40 U | 1.3 U | 1.4 U | 5.4 U | 2.9 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 5.8 U | 3.3 U | 2.9 U | 8 U | 5.5 U | 5.6 U | 17 U | 9.2 U | 190 | 28 | 1.9 U | 1.8 U | 1.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.5 U | 7.5 U | 2.4 U | 8.2 U | 22 U | 13 U | 15 U | 7.1 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 7.7 | 3.9 U | 1.3 U | 17 | 5.8 U | 3.9 U | 5.4 U | 9 U | 57 | 28 | 3.1 U | 4.3 | 7.1 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 5 J | 3.4 U | 1.3 U | 16 | 3.4 U | 4.7 U | 4.7 U | 14 | 100 | 67 | 3.4 U | 3.3 | 11 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.5 U | 3 U | 1.3 U | 1.3 U | 3.1 U | 4.8 U | 3.5 U | 1.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.5 U | 1.5 U | 1.3 U | 1.3 U | 1.6 U | 1.5 U | 1.6 U | 1.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 12.7 JT | 8.5 UT | 9.4 UT | 33 T | 32 UT | 28 UT | 48 UT | 14 T | 347 T | 123 T | 5.4 UT | 7.6 T | 18.1 T |
| **Conventionals** | | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.37 | 1.36 | 1.56 | 1.73 | 1.31 | 1.35 | 1.29 | 1.36 | 1.83 | 1.47 | 1.6 | 1.93 | 1.74 |
| Sulfide | 18496-25-8 | mg/kg | | | | | | | | | | | | | 10.4 |
| Total organic carbon | TOC | percent | 1.82 | 1.87 | 0.37 | 0.69 | 1.92 | 1.87 | 2.16 | 1.93 | 1.85 | 1.9 | 1.39 | 0.59 | 1.58 |
| Total solids | TSO | percent | 45.9 | 44.7 | 71.4 | 68.6 | 41.6 | 43.4 | 40.6 | 44.1 | 56.9 | 48.9 | 54.2 | 78.6 | 50.5 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | 0.494 J | | | | | | | 0.27 J | 0.452 J | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | 0.252 J | | | | | | | 0.994 J | 1.17 J | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | 3.24 J | | | | | | | 11.6 | 14.2 | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | 23.4 | | | | | | | 76.9 | 91.4 | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | 87.1 | | | | | | | 356 | 386 | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | 0.427 J | | | | | | | 0.589 J | 1.06 | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | 2.49 J | | | | | | | 2.81 J | 3.3 J | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | 4.36 | | | | | | | 4.11 | 6.85 | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | 5.7 | | | | | | | 13.6 | 14.7 | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | 8.24 | | | | | | | 19.1 | 23.6 | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | 136 JT | | | | | | | 486 JT | 543 JT | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | 0.0112 U | | | | | | | 0.0586 U | 0.0474 U | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | 0.0777 U | | | | | | | 0.153 J | 0.238 J | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | 0.104 U | | | | | | | 0.185 J | 0.264 J | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | 0.449 J | | | | | | | 0.867 J | 1.33 J | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | 0.313 J | | | | | | | 0.845 J | 1 J | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | 9.34 | | | | | | | 31.7 | 39.9 | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | 0.117 J | | | | | | | 0.0592 U | 0.129 U | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | 0.731 J | | | | | | | 0.0722 J | 0.0726 U | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | 0.192 J | | | | | | | 0.0962 J | 0.16 J | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | 2.17 J | | | | | | | 0.249 J | 0.52 J | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | 0.67 J | | | | | | | 0.244 J | 0.242 J | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | 0.0353 U | | | | | | | 0.0323 U | 0.0496 U | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | 0.192 J | | | | | | | 0.227 J | 0.299 J | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | 1.8 J | | | | | | | 4.05 | 3.83 | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | 0.209 J | | | | | | | 0.241 J | 0.325 J | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | 0.613 JT | | | | | | | 0.918 JT | 1.21 JT | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | 0.871 JT | | | 0.254 JA | 0.221 JA | | | 3.89 JT | 2.85 JT | | | 0.36 JA |
| **Grain Size** | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.13 | 0.5 | 6.57 | 0.83 | 0.15 | 0.46 | 0.26 | 0.08 | 0.26 | 0.36 | 0 | 3.29 | 0.01 |
| Fine gravel | GS_FG | percent | 0.98 | 0.98 | 1.26 | 2.13 | 0.62 | 1.69 | 2.43 | 2.2 | 0.61 | 1.75 | 0.21 | 9.7 | 0.39 |
| Very coarse sand | GS_VCS | percent | 1.51 | 1.17 | 2.04 | 2.69 | 1.28 | 1.21 | 1.92 | 1.19 | 1.1 | 1.41 | 0.74 | 14.1 | 0.72 |
| Coarse sand | GS_CS | percent | 1.1 | 1.04 | 23.1 | 13.4 | 0.99 | 0.7 | 0.96 | 1.01 | 9.74 | 2.77 | 0.5 | 21.5 | 3.04 |
| Medium sand | GS_MS | percent | 1.11 | 1.43 | 49.5 | 30.3 | 0.88 | 0.96 | 1.16 | 2.68 | 23.7 | 5.84 | 0.6 | 21.6 | 12.1 |
| Fine sand | GS_FS | percent | 8.6 | 15.3 | 8.28 | 21.2 | 6.34 | 6.47 | 22.8 | 14.9 | 13.5 | 6.18 | 8.52 | 12.4 | 18 |
| Very fine sand | GS_VFS | percent | 29.1 | 22.7 | 1.17 | 14.7 | 22.3 | 21.5 | 18.5 | 23.4 | 12.3 | 9.63 | 35.1 | 6.62 | 14.1 |
| Fines | GS_FINES | percent | 61.3 T | 58.6 T | 9.21 T | 16.1 T | 69.5 T | 68 T | 56 T | 56.8 T | 47.6 T | 63.1 T | 49.5 T | 5.48 T | 50.6 T |
| Coarse silt | GS_CSILT | percent | 30 | 30.8 | 1.85 | 8.14 | 39 | 37.4 | 32 | 26.1 | 17.5 | 29.8 | 30.8 | 1.68 | 25.1 |
| Medium silt | GS_MSILT | percent | 14.6 | 12.6 | 2.85 | 2.93 | 13.3 | 13.4 | 11.3 | 14.1 | 10.9 | 13.3 | 8.33 | 1.35 | 9.25 |
| Fine silt | GS_FSILT | percent | 6.92 | 6.49 | 1.79 | 1.84 | 7.91 | 7.63 | 5.45 | 6.99 | 8.05 | 8.2 | 3.74 | 0.74 | 6.16 |
| Very fine silt | GS_VFSILT | percent | 2.27 | 1.77 | 1.22 | 0.74 | 2.31 | 2.51 | 1.83 | 1.91 | 5.17 | 4.7 | 2.35 | 0.75 | 3.21 |
| 8-9 Phi clay | GS_CCLAY | percent | 3.95 | 3.75 | 0.86 | 1.43 | 3.63 | 3.57 | 3.26 | 4.31 | 2.97 | 2.68 | 1.77 | 0.23 | 2.57 |
| >9 Phi clay | GS_MFCLAY | percent | 3.6 | 3.14 | 0.64 | 1.01 | 3.32 | 3.5 | 2.15 | 3.38 | 3.02 | 4.43 | 2.53 | 0.73 | 4.33 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G738 | LW3-G739 | LW3-G742 | LW3-G743 | LW3-G747 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 24 | 0 - 29 | 0 - 28 | 0 - 22 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 29400 | 29800 | 12900 | 13700 | 28500 | 28600 | 29100 | 27700 | 19800 | 21700 | 21800 | 8140 | 25300 |
| Antimony | 7440-36-0 | mg/kg | 0.2 J | 0.21 J | 0.15 J | 0.19 J | 0.24 J | 0.22 J | 0.22 J | 0.19 J | 0.33 J | 0.35 J | 0.33 J | 2.02 J | 0.49 J |
| Arsenic | 7440-38-2 | mg/kg | 4.46 | 4.51 | 2.52 | 3.94 | 4.3 | 4.22 | 4.56 | 4.04 | 2.72 | 2.68 | 2.41 | 3.61 | 2.92 |
| Cadmium | 7440-43-9 | mg/kg | 0.162 J | 0.167 J | 0.057 J | 0.147 J | 0.169 J | 0.16 J | 0.162 J | 0.16 J | 0.216 | 0.248 | 0.196 | 0.288 | 0.146 |
| Chromium | 7440-47-3 | mg/kg | 29.6 | 28.1 | 13.3 | 16 | 26.9 | 26.2 | 27.7 | 26.3 | 21.1 | 24.1 | 23 | 12.9 | 25.4 |
| Copper | 7440-50-8 | mg/kg | 35.1 | 40.5 | 15.5 | 21.4 | 35.2 | 33.6 | 33.6 | 32 | 40.2 | 34.1 | 29.4 | 77 | 34.8 |
| Lead | 7439-92-1 | mg/kg | 9.33 | 12 | 3.63 | 16.4 | 9.86 | 9.07 | 9.39 | 9.37 | 12.5 | 15 | 9.93 | 33.5 | 11 J |
| Mercury | 7439-97-6 | mg/kg | 0.046 | 0.07 | 0.018 | 0.091 | 0.054 | 0.049 | 0.044 | 0.053 | 0.074 | 0.059 | 0.059 | 0.039 | 0.063 |
| Nickel | 7440-02-0 | mg/kg | 24.1 | 23.3 | 15.1 | 17.7 | 23.1 | 22.2 | 23 | 21.5 | 22.1 | 21 | 22.2 | 14.2 | 23 |
| Silver | 7440-22-4 | mg/kg | 0.13 | 0.15 | 0.07 | 0.12 | 0.15 | 0.16 | 0.15 | 0.14 | 0.15 | 0.17 | 0.12 | 0.15 | 0.2 |
| Zinc | 7440-66-6 | mg/kg | 95.1 | 102 | 61.1 | 96.1 | 102 | 98.8 | 98.8 | 98.6 | 118 | 149 | 86.5 | 189 | 91.7 |
| **PAHs** | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.4 J | 0.84 J | 0.36 J | 1.1 J | 1.5 J | 1.5 J | 1.3 J | 12 | 120 | 11 | 0.83 J | 0.65 J | 1.5 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 1.9 J | 0.98 J | 0.52 J | 2 J | 2 J | 1.8 J | 1.9 J | 23 | 150 | 11 | 1.2 J | 1 J | 2.4 J |
| Acenaphthene | 83-32-9 | ug/kg | 1.5 J | 1.9 J | 0.28 J | 1.1 J | 1.8 J | 2.5 J | 1.4 J | 21 | 220 | 37 | 2.2 J | 1.7 | 2.3 J |
| Acenaphthylene | 208-96-8 | ug/kg | 2.1 J | 1.3 J | 0.44 J | 2.1 J | 2.2 J | 2.1 J | 2.6 J | 6.2 | 30 | 9.8 | 1.2 J | 1.4 J | 2.5 J |
| Anthracene | 120-12-7 | ug/kg | 3.8 | 7.1 | 0.47 U | 7.2 | 4.1 | 3.3 | 4.5 | 40 | 110 | 19 | 1.8 J | 4.8 | 4.1 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 14 | 13 | 1.7 J | 15 | 14 | 10 | 16 | 170 | 570 | 74 | 8.6 | 17 | 15 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 14 | 12 | 1.3 J | 17 | 13 | 11 | 17 | 73 | 840 | 72 | 9.3 | 16 | 17 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 19 | 16 | 2.8 | 22 | 20 | 16 | 24 | 140 | 1300 | 85 | 14 | 23 | 21 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 12 | 9.5 | 2.2 J | 16 | 12 | 9.5 | 15 | 60 | 650 | 49 | 8.6 | 17 | 14 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 12 | 10 | 1.6 J | 15 | 12 | 9.6 | 15 | 29 | 540 | 56 | 8.8 | 17 | 16 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 6 | 5 | 1 J | 7.3 | 6.1 | 4.8 | 6.9 | 43 | 470 | 24 | 4.6 | 7.5 | 7.4 |
| Chrysene | 218-01-9 | ug/kg | 21 | 16 | 2.2 J | 19 | 19 | 14 | 22 | 210 | 1300 | 55 | 11 | 22 | 21 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 1.8 J | 1.5 J | 0.28 U | 2.5 | 2 J | 1.5 J | 2.3 J | 7.6 | 110 | 9.2 | 1.5 J | 3 | 2.7 |
| Dibenzothiophene | 132-65-0 | ug/kg | 0.98 J | 0.89 J | 0.21 U | 0.96 J | 1.1 J | 0.88 J | 1.1 J | 7.8 | 120 | 9.2 | 0.59 J | 1.8 | 1.2 J |
| Fluoranthene | 206-44-0 | ug/kg | 38 | 37 | 4.5 | 26 | 30 | 25 | 39 | 190 | 3000 | 120 | 18 | 36 | 34 |
| Fluorene | 86-73-7 | ug/kg | 1.8 J | 2.4 J | 0.5 U | 1.4 J | 2.1 J | 2.6 J | 1.7 J | 23 | 230 | 26 | 1.3 J | 1.7 | 2.2 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 11 | 9.8 | 1.5 J | 12 | 10 | 8.4 | 13 | 33 | 680 | 53 | 7.3 | 16 | 13 |
| Naphthalene | 91-20-3 | ug/kg | 6.8 | 3.4 | 2 J | 4.9 | 7.9 | 6 | 7.5 | 67 | 350 | 26 | 3.6 | 2.4 | 8.5 |
| Perylene | 198-55-0 | ug/kg | 17 | 8.6 | 0.32 U | 41 | 14 | 12 | 13 | 31 | 170 | 39 | 21 | 9.3 | 19 |
| Phenanthrene | 85-01-8 | ug/kg | 16 | 23 | 2.3 J | 15 | 17 | 15 | 20 | 130 | 3300 | 95 | 8.8 | 17 | 18 |
| Pyrene | 129-00-0 | ug/kg | 38 | 32 | 5.1 | 39 | 32 | 25 | 38 | 150 | 2400 | 140 | 18 | 42 | 36 |
| High Molecular Weight PAH | HPAH | ug/kg | 170 JT | 150 JT | 22 JT | 170 T | 160 JT | 130 JT | 190 JT | 1000 T | 11000 T | 690 T | 100 JT | 200 T | 180 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 34 JT | 40 JT | 5.5 JT | 34 JT | 37 JT | 33 JT | 40 JT | 310 T | 4400 T | 220 T | 20 JT | 30 JT | 40 JT |
| Total PAHs | 130498-29-2 | ug/kg | 210 JT | 190 JT | 27 JT | 210 JT | 200 JT | 160 JT | 230 JT | 1400 T | 16000 T | 910 T | 120 JT | 230 JT | 220 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 22 J | 12 J | 2.4 J | 21 | 19 J | 15 J | 26 J | 110 | 430 | 73 | 5.9 | 26 | 22 J |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 1.7 J | 1.6 J | 0.21 U | 4.3 | 1.9 J | 1.6 J | 2.6 J | 7.2 | 24 | 18 | 1.2 J | 4 | 3.7 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 24 | 16 | 3.7 | 24 | 22 | 17 | 27 | 200 | 670 | 86 | 13 | 28 | 23 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 2.5 J | 2 J | 0.6 J | 2.6 | 2.4 J | 2.2 J | 2.8 J | 11 | 44 | 14 | 1.3 J | 2.7 | 3.4 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 15 | 8.7 | 2 J | 14 | 10 | 8.8 | 13 | 78 | 650 | 72 | 6.3 | 19 | 11 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 13 | 9.1 | 0.25 U | 26 | 14 | 8.1 | 20 | 43 | 170 | 40 | 6.9 | 26 | 14 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 5.7 | 3.1 | 0.21 U | 7.7 | 5 | 3.4 | 6.9 | 16 | 54 | 29 | 3.2 | 7.5 | 5.3 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 15 | 9.4 | 0.61 U | 19 | 15 | 11 | 24 | 80 | 190 | 52 | 11 | 24 | 17 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 5.1 | 3.4 | 1.1 J | 4.6 | 5 | 3.1 | 6.1 | 16 | 49 | 26 | 3.1 | 6.2 | 6 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 3.9 | 2 J | 1 J | 3.7 | 3.5 | 3.7 | 3 J | 25 | 160 | 46 | 2.5 | 2.8 | 4.5 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 13 | 7.5 | 1.9 J | 16 | 11 | 8.7 | 15 | 57 | 310 | 66 | 5.8 | 21 | 20 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 13 | 6.2 | 0.25 U | 27 | 12 | 8.4 | 24 | 26 | 95 | 31 | 9.3 | 41 | 14 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 4.8 | 3.1 | 0.21 U | 8.4 | 5.5 | 3.4 | 9 | 17 | 52 | 18 | 4.3 | 8.7 | 7.8 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 10 | 5.7 | 0.61 U | 23 | 10 | 8.1 | 19 | 38 | 110 | 29 | 7.2 | 22 | 12 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 6.2 | 4.8 | 0.5 U | 12 | 7.1 | 4.2 | 11 | 21 | 67 | 37 | 3.8 | 12 | 9.5 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 3.4 | 2.4 J | 0.66 J | 3.1 | 3.2 | 3.2 | 3.3 | 15 | 140 | 49 | 2.2 J | 3.8 | 4.6 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 13 | 6.7 | 1.7 J | 27 | 13 | 9.2 | 23 | 47 | 120 | 49 | 9.2 | 28 | 16 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 21 | 0.25 U | 0.25 U | 0.25 U | 12 | 5 U | 18 | 8.5 | 28 | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 4.1 | 3.4 | 0.37 U | 7.3 | 4.2 | 3.8 | 5 | 15 | 70 | 40 | 2.7 | 10 | 5.4 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 6.6 | 4.3 | 0.75 U | 13 | 8.5 | 6.1 | 18 | 22 | 33 | 23 | 4.4 | 13 | 12 |
| **PCB Congeners** | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | 4.98 U | | | 4.95 U | 5.62 | | | 4070 | 59.7 | | | 12.4 U |
| PCB002 | 2051-61-8 | pg/g | | 5.03 | | | 5.6 | 5.96 | | | 127 | 17.8 | | | 14.5 |
| PCB003 | 2051-62-9 | pg/g | | 4.98 U | | | 4.95 U | 6.11 | | | 823 | 49.4 | | | 12.4 U |
| PCB004 & 010 | PCB004_010 | pg/g | | 16.8 | | | 11.2 | 15.8 | | | 20800 | 291 | | | 28.7 UJ |
| PCB005 & 008 | PCB005_008 | pg/g | | 25.2 | | | 27.3 | 29.3 | | | 30200 | 716 | | | 30 UJ |
| PCB006 | 25569-80-6 | pg/g | | 9.96 U | | | 9.91 U | 9.89 U | | | 5380 | 229 | | | 24.7 U |
| PCB007 & 009 | PCB007_009 | pg/g | | 9.96 U | | | 9.91 U | 9.89 U | | | 1740 | 58.3 | | | 24.7 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G738 | LW3-G739 | LW3-G742 | LW3-G743 | LW3-G747 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 24 | 0 - 29 | 0 - 28 | 0 - 22 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | 132 | | | 141 | 140 | | | 218 | 181 | | | 171 |
| PCB012 & 013 | PCB012_013 | pg/g | | 9.96 U | | | 9.91 U | 9.89 U | | | 1400 | 63.5 | | | 24.7 U |
| PCB014 | 34883-41-5 | pg/g | | 9.96 U | | | 9.91 U | 9.89 U | | | 9.93 U | 9.83 U | | | 24.7 U |
| PCB015 | 2050-68-2 | pg/g | | 29.7 | | | 30.3 | 32 | | | 7170 | 400 | | | 36.4 UJ |
| PCB016 & 032 | PCB016_032 | pg/g | | 31 | | | 30.9 | 31.5 | | | 15300 | 552 | | | 52.3 |
| PCB017 | 37680-66-3 | pg/g | | 24 | | | 23.2 | 24.7 | | | 12300 | 394 | | | 41 |
| PCB018 | 37680-65-2 | pg/g | | 44.6 | | | 45.7 | 44.8 | | | 22600 | 869 | | | 65 |
| PCB019 | 38444-73-4 | pg/g | | 19.7 | | | 11.4 | 18.2 | | | 3950 | 150 | | | 44.4 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | 40.2 | | | 43.8 | 45.3 | | | 18900 | 688 | | | 63.8 |
| PCB022 | 38444-85-8 | pg/g | | 26.4 | | | 29 | 30.3 | | | 11000 | 406 | | | 41.5 |
| PCB023 | 55720-44-0 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 40.9 | 4.91 U | | | 12.4 U |
| PCB024 & 027 | PCB024_027 | pg/g | | 5.8 | | | 4.95 U | 5.48 | | | 2030 | 75 | | | 12.4 U |
| PCB025 | 55712-37-3 | pg/g | | 10.9 | | | 13.6 | 12.9 | | | 3160 | 182 | | | 18.4 |
| PCB026 | 38444-81-4 | pg/g | | 17 | | | 19.7 | 20.4 | | | 5130 | 257 | | | 26.1 |
| PCB028 | 7012-37-5 | pg/g | | 89.4 | | | 93.5 | 103 | | | 27300 | 1250 | | | 136 |
| PCB029 | 15862-07-4 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 315 | 8.64 | | | 12.4 U |
| PCB030 | 35693-92-6 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 20.4 | 4.91 U | | | 12.4 U |
| PCB031 | 16606-02-3 | pg/g | | 70.5 | | | 84.9 | 80.2 | | | 27400 | 1020 | | | 110 |
| PCB034 | 37680-68-5 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 126 | 9.28 | | | 12.4 U |
| PCB035 | 37680-69-6 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 381 | 21.2 | | | 12.4 U |
| PCB036 | 38444-87-0 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB037 | 38444-90-5 | pg/g | | 33.2 | | | 32.8 | 32.9 | | | 7760 | 356 | | | 51 |
| PCB038 | 53555-66-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 120 | 18.9 | | | 12.4 U |
| PCB039 | 38444-88-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 19.9 | 5.56 | | | 12.4 U |
| PCB040 | 38444-93-8 | pg/g | | 16.4 | | | 4.95 U | 16.4 | | | 3380 | 158 | | | 35 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | 99.8 | | | 93.1 | 86.3 | | | 15100 | 869 | | | 173 |
| PCB042 & 059 | PCB042_059 | pg/g | | 31.9 | | | 30.6 | 29.3 | | | 5860 | 303 | | | 61.5 |
| PCB043 & 049 | PCB043_049 | pg/g | | 113 | | | 101 | 100 | | | 11900 | 1530 | | | 241 |
| PCB044 | 41464-39-5 | pg/g | | 110 | | | 100 | 96.9 | | | 13300 | 844 | | | 229 |
| PCB045 | 70362-45-7 | pg/g | | 11 | | | 11.7 | 10.6 | | | 2650 | 117 | | | 20.1 UJ |
| PCB046 | 41464-47-5 | pg/g | | 6.16 | | | 5.87 | 5.25 | | | 1080 | 64.7 | | | 14.6 |
| PCB047 | 2437-79-8 | pg/g | | 61.1 | | | 47.9 | 47.9 | | | 4950 | 1080 | | | 151 |
| PCB048 & 075 | PCB048_075 | pg/g | | 18.1 | | | 18.9 | 18.1 | | | 3970 | 177 | | | 32.3 |
| PCB050 | 62796-65-0 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 70.7 | 5.57 | | | 12.4 U |
| PCB051 | 68194-04-7 | pg/g | | 16.7 | | | 11.3 | 12.2 | | | 1500 | 379 | | | 38.4 |
| PCB052 & 069 | PCB052_069 | pg/g | | 156 | | | 137 | 138 | | | 12500 | 1540 | | | 311 |
| PCB053 | 41464-41-9 | pg/g | | 28.3 | | | 21.5 | 24 | | | 2700 | 425 | | | 63.5 |
| PCB054 | 15968-05-5 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 109 | 45.8 | | | 12.4 U |
| PCB055 | 74338-24-2 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 382 | 19.2 | | | 12.4 U |
| PCB056 & 060 | PCB056_060 | pg/g | | 65.7 | | | 64.5 | 64.8 | | | 10300 | 444 | | | 98.6 |
| PCB057 | 70424-67-8 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 122 | 13.4 | | | 12.4 U |
| PCB058 | 41464-49-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 38.8 | 6.2 | | | 12.4 U |
| PCB061 & 070 | PCB061_070 | pg/g | | 155 | | | 150 | 147 | | | 14000 | 1010 | | | 256 |
| PCB062 | 54230-22-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 10.7 | 4.91 U | | | 12.4 U |
| PCB063 | 74472-34-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 566 | 35.1 | | | 12.4 U |
| PCB065 | 33284-54-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 18.3 | 4.91 U | | | 12.4 U |
| PCB066 & 076 | PCB066_076 | pg/g | | 117 | | | 115 | 114 | | | 12000 | 781 | | | 193 |
| PCB067 | 73575-53-8 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 701 | 37.8 | | | 12.4 U |
| PCB068 | 73575-52-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 121 | 27.8 | | | 12.4 U |
| PCB073 | 74338-23-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 26.4 | | | 12.4 U |
| PCB074 | 32690-93-0 | pg/g | | 54.1 | | | 52.4 | 50.3 | | | 7110 | 368 | | | 97 |
| PCB077 | 32598-13-3 | pg/g | | 15.5 | | | 15.4 | 15.5 | | | 1250 | 89.7 | | | 19.4 UJ |
| PCB078 | 70362-49-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB079 | 41464-48-6 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 115 | 36.4 | | | 12.4 U |
| PCB080 | 33284-52-5 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB081 | 70362-50-4 | pg/g | | 0.666 J | | | 0.693 J | 1.33 U | | | 45.3 | 5.53 | | | 1.8 U |
| PCB082 | 52663-62-4 | pg/g | | 22.7 | | | 21.5 | 22.1 | | | 846 | 119 | | | 50.5 |
| PCB083 | 60145-20-2 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 12.2 | 4.91 U | | | 12.4 U |
| PCB084 & 092 | PCB084_092 | pg/g | | 107 | | | 87.1 | 90.2 | | | 4230 | 1340 | | | 194 |
| PCB085 & 116 | PCB085_116 | pg/g | | 45 | | | 41.7 | 41 | | | 1090 | 218 | | | 65.2 |
| PCB086 | 55312-69-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 104 | 4.91 U | | | 12.4 U |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | 90.3 | | | 75.1 | 77.6 | | | 2070 | 539 | | | 138 |
| PCB088 & 091 | PCB088_091 | pg/g | | 48.7 | | | 39.9 | 37.9 | | | 1880 | 647 | | | 91.5 |
| PCB089 | 73575-57-2 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 149 | 13.5 | | | 12.4 U |
| PCB090 & 101 | PCB090_101 | pg/g | | 301 | | | 256 | 262 | | | 10600 | 4280 | | | 542 |
| PCB093 | 73575-56-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G738 | LW3-G739 | LW3-G742 | LW3-G743 | LW3-G747 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 24 | 0 - 29 | 0 - 28 | 0 - 22 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 215 | 58.8 | | | 12.4 U |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | 230 | | | 191 | 182 | | | 7850 | 3230 | | | 393 |
| PCB096 | 73575-54-9 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 218 | 58.5 | | | 12.4 U |
| PCB097 | 41464-51-1 | pg/g | | 70.9 | | | 59.9 | 57.7 | | | 1640 | 373 | | | 126 |
| PCB099 | 38380-01-7 | pg/g | | 127 | | | 114 | 113 | | | 5050 | 1510 | | | 251 |
| PCB100 | 39485-83-1 | pg/g | | 6.81 | | | 4.96 | 4.95 | | | 526 | 197 | | | 16.3 |
| PCB103 | 60145-21-3 | pg/g | | 7.38 | | | 5.91 | 5.45 | | | 568 | 247 | | | 15.9 |
| PCB104 | 56558-16-8 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 14.7 | 7.11 | | | 12.4 U |
| PCB105 | 32598-14-4 | pg/g | | 84.2 | | | 77.1 | 76.6 | | | 1590 | 383 | | | 136 |
| PCB106 & 118 | PCB106_118 | pg/g | | 234 | | | 221 | 214 | | | 4420 | 1550 | | | 429 |
| PCB107 & 109 | PCB107_109 | pg/g | | 17.7 | | | 16.8 | 16.5 | | | 627 | 177 | | | 30.8 |
| PCB108 & 112 | PCB108_112 | pg/g | | 11.3 | | | 9.77 | 9.68 | | | 349 | 78.7 | | | 20.1 |
| PCB110 | 38380-03-9 | pg/g | | 340 | | | 293 | 293 | | | 7140 | 2660 | | | 554 |
| PCB111 & 115 | PCB111_115 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 170 | 23.2 | | | 12.4 U |
| PCB113 | 68194-10-5 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 101 | 38.6 | | | 12.4 U |
| PCB114 | 74472-37-0 | pg/g | | 4.1 J | | | 4.9 J | 3.36 U | | | 122 | 19.2 | | | 11 U |
| PCB119 | 56558-17-9 | pg/g | | 9.76 | | | 7.52 | 8.28 | | | 712 | 236 | | | 18.8 |
| PCB120 | 68194-12-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 127 | 32.7 | | | 12.4 U |
| PCB121 | 56558-18-0 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB122 | 76842-07-4 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 68.8 | 12.7 | | | 12.4 U |
| PCB123 | 65510-44-3 | pg/g | | 4.7 J | | | 4.46 J | 4.23 J | | | 87.7 | 17.5 | | | 7.39 J |
| PCB124 | 70424-70-3 | pg/g | | 9.27 | | | 8.56 | 9.17 | | | 162 | 36.6 | | | 14.4 |
| PCB126 | 57465-28-8 | pg/g | | 2.45 J | | | 2.2 J | 2.09 J | | | 26.1 | 14.7 | | | 3.4 J |
| PCB127 | 39635-33-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB128 & 162 | PCB128_162 | pg/g | | 49.9 | | | 45.7 | 45.4 | | | 722 | 477 | | | 86.5 |
| PCB129 | 55215-18-4 | pg/g | | 13.1 | | | 11.2 | 11.8 | | | 199 | 118 | | | 23 |
| PCB130 | 52663-66-8 | pg/g | | 28.5 | | | 25.7 | 23.6 | | | 746 | 377 | | | 46.6 |
| PCB131 | 61798-70-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB132 & 161 | PCB132_161 | pg/g | | 97.5 | | | 87.2 | 87.2 | | | 3360 | 1960 | | | 181 |
| PCB133 & 142 | PCB133_142 | pg/g | | 10.6 | | | 10.3 | 10.2 | | | 1070 | 313 | | | 24.3 |
| PCB134 & 143 | PCB134_143 | pg/g | | 16.9 | | | 14.6 | 14.9 | | | 613 | 325 | | | 33.6 |
| PCB135 | 52744-13-5 | pg/g | | 65.6 | | | 54.8 | 55.2 | | | 4000 | 1850 | | | 133 |
| PCB136 | 38411-22-2 | pg/g | | 60 | | | 49.7 | 52 | | | 2850 | 1630 | | | 118 |
| PCB137 | 35694-06-5 | pg/g | | 14.6 | | | 12.9 | 12.5 | | | 182 | 80.3 | | | 31.2 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | 401 | | | 363 | 354 | | | 13400 | 7620 | | | 733 |
| PCB139 & 149 | PCB139_149 | pg/g | | 412 | | | 353 | 351 | | | 17100 | 10700 | | | 679 |
| PCB140 | 59291-64-4 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 605 | 159 | | | 12.4 U |
| PCB141 | 52712-04-6 | pg/g | | 75 | | | 67.5 | 65.1 | | | 2570 | 1840 | | | 183 |
| PCB144 | 68194-14-9 | pg/g | | 19.6 | | | 17.5 | 17.6 | | | 692 | 490 | | | 32.2 |
| PCB145 | 74472-40-5 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB146 & 165 | PCB146_165 | pg/g | | 66.8 | | | 65 | 61.2 | | | 6340 | 2120 | | | 123 UJ |
| PCB147 | 68194-13-8 | pg/g | | 15.7 | | | 10.9 | 11.3 | | | 1450 | 302 | | | 27.4 |
| PCB148 | 74472-41-6 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 365 | 87.6 | | | 12.4 U |
| PCB150 | 68194-08-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 317 | 75.8 | | | 12.4 U |
| PCB151 | 52663-63-5 | pg/g | | 122 | | | 104 | 104 | | | 6430 | 3790 | | | 221 UJ |
| PCB152 | 68194-09-2 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 71.5 | 13.5 | | | 12.4 U |
| PCB153 | 35065-27-1 | pg/g | | 405 | | | 361 | 358 | | | 20000 | 10400 | | | 798 |
| PCB154 | 60145-22-4 | pg/g | | 12.1 | | | 9.93 | 9.5 | | | 1960 | 531 | | | 24.4 |
| PCB155 | 33979-03-2 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 14.5 | 4.91 U | | | 12.4 U |
| PCB156 | 38380-08-4 | pg/g | | 31.9 | | | 28.6 | 27.9 | | | 723 | 396 | | | 55.9 |
| PCB157 | 69782-90-7 | pg/g | | 6.73 | | | 6.55 | 6.66 | | | 68 | 45.6 | | | 10.3 U |
| PCB158 & 160 | PCB158_160 | pg/g | | 39.4 | | | 36 | 34.9 | | | 966 | 610 | | | 75 |
| PCB159 | 39635-35-3 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB166 | 41411-63-6 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 7.99 | 5.09 | | | 12.4 U |
| PCB167 | 52663-72-6 | pg/g | | 14.5 | | | 13.4 | 13.2 | | | 289 | 188 | | | 25.3 |
| PCB168 | 59291-65-5 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 88.9 | 23.9 | | | 12.4 U |
| PCB169 | 32774-16-6 | pg/g | | 0.878 U | | | 0.726 J | 0.586 U | | | 4.73 U | 2.37 J | | | 1.77 U |
| PCB170 | 35065-30-6 | pg/g | | 112 | | | 107 | 103 | | | 6890 | 3620 | | | 248 |
| PCB171 | 52663-71-5 | pg/g | | 30.3 | | | 26.8 | 25.8 | | | 1770 | 933 | | | 62.9 |
| PCB172 | 52663-74-8 | pg/g | | 21.5 | | | 19.4 | 19.1 | | | 1240 | 644 | | | 39 UJ |
| PCB173 | 68194-16-1 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 144 | 85.1 | | | 12.4 U |
| PCB174 | 38411-25-5 | pg/g | | 143 | | | 142 | 125 | | | 8420 | 4820 | | | 308 |
| PCB175 | 40186-70-7 | pg/g | | 6.96 | | | 5.89 | 5.89 | | | 356 | 199 | | | 13.3 |
| PCB176 | 52663-65-7 | pg/g | | 20.4 | | | 18.7 | 18.1 | | | 1220 | 654 | | | 43.2 |
| PCB177 | 52663-70-4 | pg/g | | 78.3 | | | 73.7 | 70.1 | | | 6470 | 2690 | | | 184 |
| PCB178 | 52663-67-9 | pg/g | | 35.5 | | | 32.8 | 30.7 | | | 2950 | 1140 | | | 78.7 |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G738 | LW3-G739 | LW3-G742 | LW3-G743 | LW3-G747 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 24 | 0 - 29 | 0 - 28 | 0 - 22 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | 69.4 | | | 65.8 | 63.9 | | | 5370 | 2410 | | | 165 |
| PCB180 | 35065-29-3 | pg/g | | 299 | | | 276 | 267 | | | 19000 | 10100 | | | 656 |
| PCB181 | 74472-47-2 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 24.1 | 23.8 | | | 12.4 U |
| PCB182 & 187 | PCB182_187 | pg/g | | 211 | | | 198 | 192 | | | 15600 | 7040 | | | 459 |
| PCB183 | 52663-69-1 | pg/g | | 80.4 | | | 76.9 | 72.6 | | | 4500 | 2540 | | | 201 |
| PCB184 | 74472-48-3 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 12.6 | 4.91 U | | | 12.4 U |
| PCB185 | 52712-05-7 | pg/g | | 14.4 | | | 14.7 | 13 | | | 833 | 493 | | | 27.4 UJ |
| PCB186 | 74472-49-4 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB188 | 74487-85-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 79.9 | 14.5 | | | 12.4 U |
| PCB189 | 39635-31-9 | pg/g | | 4.44 J | | | 4.58 J | 4.09 J | | | 284 | 127 | | | 10.2 J |
| PCB190 | 41411-64-7 | pg/g | | 25.6 | | | 24.5 | 23.4 | | | 1620 | 792 | | | 50.1 |
| PCB191 | 74472-50-7 | pg/g | | 5.3 | | | 4.95 U | 4.94 U | | | 289 | 151 | | | 12.4 U |
| PCB192 | 74472-51-8 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB193 | 69782-91-8 | pg/g | | 15.6 | | | 14 | 14 | | | 1210 | 527 | | | 32.3 |
| PCB194 | 35694-08-7 | pg/g | | 69.8 | | | 68.3 | 67.7 | | | 6020 | 2430 | | | 154 |
| PCB195 | 52663-78-2 | pg/g | | 28.8 | | | 27.4 | 25.9 | | | 2430 | 1040 | | | 62.5 |
| PCB196 & 203 | PCB196_203 | pg/g | | 104 | | | 105 | 96.4 | | | 6330 | 3090 | | | 218 |
| PCB197 | 33091-17-7 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 229 | 93.9 | | | 12.4 U |
| PCB198 | 68194-17-2 | pg/g | | 5.34 | | | 5.23 | 5.41 | | | 308 | 134 | | | 12.4 U |
| PCB199 | 52663-75-9 | pg/g | | 102 | | | 102 | 97.5 | | | 5870 | 2940 | | | 228 |
| PCB200 | 52663-73-7 | pg/g | | 12.2 | | | 11.4 | 11.3 | | | 755 | 372 | | | 22.7 |
| PCB201 | 40186-71-8 | pg/g | | 10.5 | | | 10.2 | 10.1 | | | 811 | 310 | | | 24.7 |
| PCB202 | 2136-99-4 | pg/g | | 16.3 | | | 17.5 | 16.7 | | | 1070 | 429 | | | 38.6 |
| PCB204 | 74472-52-9 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 4.97 U | 4.91 U | | | 12.4 U |
| PCB205 | 74472-53-0 | pg/g | | 4.98 U | | | 4.95 U | 4.94 U | | | 261 | 106 | | | 12.4 U |
| PCB206 | 40186-72-9 | pg/g | | 38.9 | | | 42.2 | 41.8 | | | 1250 | 659 | | | 91.5 |
| PCB207 | 52663-79-3 | pg/g | | 4.98 U | | | 5.11 | 5.46 | | | 167 | 80 | | | 12.4 U |
| PCB208 | 52663-77-1 | pg/g | | 12 | | | 13.5 | 13.1 | | | 211 | 139 | | | 25.5 |
| PCB209 | 2051-24-3 | pg/g | | 45.9 | | | 45 | 51 | | | 162 | 236 | | | 52.6 |
| Total PCB Congeners | 1336-36-3 | pg/g | | 7070 JT | | | 6470 JT | 6410 JT | | | 600000 T | 134000 JT | | | 12700 JT |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | 0.258 JT | | | 0.254 JT | 0.221 JT | | | 2.98 T | 1.63 JT | | | 0.36 JT |
| **PCB Homologs** | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | 5.03 T | | | 5.6 T | 17.7 T | | | 5020 T | 127 T | | | 14.5 T |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | 204 T | | | 210 T | 217 T | | | 66900 T | 1940 T | | | 171 T |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | 413 T | | | 429 T | 450 T | | | 158000 T | 6260 T | | | 650 T |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | 1080 JT | | | 977 JT | 977 T | | | 126000 T | 10400 T | | | 1990 T |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | 1770 JT | | | 1540 JT | 1530 JT | | | 52800 T | 18100 T | | | 3100 JT |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | 1980 T | | | 1750 JT | 1730 T | | | 87200 T | 46500 JT | | | 3310 T |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | 1170 JT | | | 1100 JT | 1050 JT | | | 78300 T | 39000 T | | | 2510 JT |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | 349 T | | | 347 T | 331 T | | | 24100 T | 10900 T | | | 749 T |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | 50.9 T | | | 60.8 T | 60.4 T | | | 1630 T | 878 T | | | 117 T |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 2 U | 1.7 U | 0.16 U | 0.54 U | 1.1 U | 0.98 U | 0.24 U | 0.61 U | 4.8 J | 1.9 | 0.16 U | 0.16 U | 0.2 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.05 U | 0.14 U | 0.046 U | 0.41 U | 0.055 U | 0.23 U | 0.25 U | 0.23 U | 4.5 U | 1.6 U | 0.046 U | 0.046 U | 0.2 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.41 U | 0.41 U | 0.096 U | 1.6 J | 0.38 U | 0.26 U | 0.33 U | 2.1 NJ | 6.3 NJ | 4.5 NJ | 0.33 U | 0.25 J | 1.1 NJ |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.75 | 0.61 | 0.11 J | 0.47 | 0.85 | 0.79 | 0.67 | 0.76 | 3.4 | 1.6 | 0.46 | 0.56 J | 0.64 |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.5 | 1.2 | 0.21 J | 1.2 NJ | 1.4 | 1.2 | 1.2 | 1.4 | 1.3 NJ | 1.9 | 0.89 | 0.39 J | 1.2 |
| 4,4'-DDT | 50-29-3 | ug/kg | 1.3 J | 0.43 U | 0.92 NJ | 2 | 0.22 U | 0.43 U | 0.47 U | 1.6 | 5.7 U | 5.2 U | 2.5 J | 0.41 U | 1.7 J |
| Aldrin | 309-00-2 | ug/kg | 0.52 U | 0.38 U | 0.12 U | 0.12 U | 0.48 U | 0.25 U | 0.37 U | 0.55 U | 2.6 U | 0.36 U | 0.28 U | 0.12 U | 0.48 |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.46 U | 0.15 U | 0.037 U | 0.084 U | 0.27 | 0.16 U | 0.3 NJ | 0.15 U | 0.37 U | 0.14 U | 0.16 J | 0.19 NJ | 0.15 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.11 U | 0.11 U | 0.097 U | 0.097 U | 0.12 U | 0.12 U | 0.12 U | 0.11 U | 0.097 U | 0.099 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.034 U | 0.32 U | 0.031 U | 0.46 NJ | 0.037 U | 0.036 U | 0.038 U | 0.15 U | 1.4 | 0.35 U | 0.031 U | 0.13 U | 0.17 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.16 U | 0.16 U | 0.14 U | 0.14 U | 0.17 U | 0.16 U | 0.18 U | 0.16 U | 0.31 U | 0.21 U | 0.14 U | 0.14 | 0.23 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.066 U | 0.19 U | 0.031 U | 0.037 U | 0.14 U | 0.097 U | 0.057 U | 0.27 NJ | 0.41 U | 0.058 NJ | 0.087 J | 0.091 U | 0.06 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.34 U | 0.29 U | 0.087 U | 1.2 U | 0.32 U | 0.3 U | 0.32 U | 0.83 U | 1.2 U | 3.7 U | 0.22 U | 0.21 U | 0.37 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.12 U | 0.13 U | 0.11 U | 0.11 U | 0.13 U | 0.13 U | 0.14 U | 0.13 U | 0.43 U | 0.21 U | 0.11 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.26 U | 0.3 NJ | 0.1 J | 0.2 U | 0.26 J | 0.28 J | 0.33 J | 0.28 U | 0.18 U | 0.62 U | 0.22 U | 0.13 U | 0.03 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.22 U | 0.23 U | 0.058 U | 0.058 U | 0.38 U | 0.23 U | 0.32 U | 0.23 U | 0.18 U | 0.24 U | 0.19 U | 0.21 U | 0.2 U |
| Endrin | 72-20-8 | ug/kg | 0.22 U | 0.23 U | 0.071 U | 0.2 U | 0.16 U | 0.16 U | 0.25 U | 0.3 U | 0.35 U | 1.5 U | 0.071 U | 0.071 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.22 U | 0.047 U | 0.042 U | 0.2 U | 0.05 U | 0.23 U | 0.052 U | 0.047 U | 1.8 U | 1.2 U | 0.19 U | 0.23 NJ | 0.042 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.26 U | 0.34 J | 0.029 U | 0.26 U | 0.21 U | 0.21 U | 0.32 U | 0.33 U | 1.6 U | 1.1 U | 0.17 U | 0.068 U | 0.29 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.22 U | 0.069 U | 0.062 U | 0.2 U | 0.073 U | 0.23 U | 0.25 U | 0.27 U | 5.6 NJ | 0.25 | 0.14 U | 0.12 U | 0.2 U |
| Heptachlor | 76-44-8 | ug/kg | 0.083 U | 0.23 U | 0.076 U | 0.16 J | 0.09 U | 0.087 U | 0.094 U | 0.085 U | 0.33 U | 0.67 J | 0.076 U | 0.076 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.22 U | 0.23 U | 0.068 U | 0.2 U | 0.24 U | 0.23 U | 0.25 U | 0.23 U | 2.1 U | 0.35 U | 0.068 U | 0.068 U | 0.2 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.44 U | 0.35 U | 0.094 U | 0.24 U | 0.43 U | 0.36 U | 0.25 U | 0.42 U | 0.72 U | 0.92 U | 0.19 U | 0.075 U | 0.6 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G738 | LW3-G739 | LW3-G742 | LW3-G743 | LW3-G747 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 24 | 0 - 29 | 0 - 28 | 0 - 22 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.13 U | 0.14 U | 0.12 U | 0.12 U | 0.15 U | 0.14 U | 0.15 U | 0.14 U | 0.12 U | 0.13 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.66 U | 1.2 U | 0.061 U | 0.061 U | 0.45 U | 0.07 U | 0.53 U | 0.16 NJ | 0.19 J | 0.062 U | 0.24 U | 0.31 U | 0.2 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.82 JT | 0.25 T | 0.057 JT | 1.2 UT | 0.44 JT | 0.61 JT | 0.3 T | 1.3 JT | 0.19 JT | 0.058 JT | 0.087 JT | 0.33 T | 0.34 T |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.46 UT | 0.32 UT | 0.058 UT | 0.46 JT | 0.27 T | 0.23 UT | 0.3 JT | 0.23 UT | 1.4 T | 0.35 UT | 0.16 JT | 0.19 JT | 0.15 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.75 T | 0.61 T | 0.11 JT | 0.47 T | 0.85 T | 0.79 T | 0.67 T | 0.76 T | 8.2 JT | 3.5 T | 0.46 T | 0.56 JT | 0.64 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 3.6 JT | 1.8 T | 1.2 JT | 5.3 JT | 2.3 T | 2 T | 1.9 T | 5.9 JT | 16 JT | 9.9 JT | 3.9 JT | 1.2 JT | 4.6 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.5 T | 1.2 T | 0.21 JT | 1.2 JT | 1.4 T | 1.2 T | 1.2 T | 1.4 T | 1.3 JT | 1.9 T | 0.89 T | 0.39 JT | 1.2 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 1.3 JT | 0.43 UT | 0.92 JT | 3.6 JT | 0.38 UT | 0.43 UT | 0.47 UT | 3.7 JT | 6.3 JT | 4.5 JT | 2.5 JT | 0.25 JT | 2.8 JT |
| Toxaphene | 8001-35-2 | ug/kg | 19 U | 16 U | 3.4 U | 28 U | 24 U | 20 U | 22 U | 20 U | 57 U | 61 U | 9.1 U | 13 U | 23 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.42 | 0.25 | 0.057 J | 0.2 U | 0.25 NJ | 0.44 NJ | 0.3 | 0.56 | 0.48 U | 0.24 U | 0.16 U | 0.33 | 0.34 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.4 NJ | 0.13 U | 0.034 U | 0.074 U | 0.19 J | 0.17 J | 0.18 U | 0.26 NJ | 0.18 U | 0.13 U | 0.13 U | 0.093 U | 0.11 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 56 J | 49 J | 11 J | 320 J | 55 J | 53 J | 68.9 JT | 64 J | 120 J | 93 J | 34 J | 36.5 JT | 57 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 27 J | 28 J | 5.7 U | 170 J | 34 J | 35 J | 35 JT | 37 J | 71 J | 86 J | 26 J | 36 JT | 39 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 400 J | 370 J | 58 J | 810 J | 400 J | 390 J | 453 JT | 440 J | 350 J | 430 J | 220 J | 260 JT | 360 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 130 J | 130 J | 27 J | 360 J | 170 J | 160 J | 165 JT | 160 J | 160 J | 310 J | 120 J | 205 JT | 170 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 456 JA | 419 JA | 69 JA | 1130 JA | 455 JA | 443 JA | 522 JA | 504 JA | 470 JA | 523 JA | 254 JA | 297 JA | 417 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 157 JA | 158 JA | 27 JA | 530 JA | 204 JA | 195 JA | 200 JA | 197 JA | 231 JA | 396 JA | 146 JA | 241 JA | 209 JA |
| **Phenols** | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.46 U | 0.45 U | 0.3 U | 0.31 U | 0.5 U | 0.48 U | 0.52 U | 0.48 U | 1.4 J | 0.43 U | 0.38 U | 0.27 U | 0.41 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.37 U | 0.37 U | 0.24 U | 0.25 U | 0.41 U | 0.39 U | 0.42 U | 0.39 U | 0.29 U | 0.35 U | 0.31 U | 0.22 U | 0.34 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.2 U | 1.2 U | 0.77 U | 0.8 U | 1.4 U | 1.3 U | 1.4 U | 1.3 U | 0.94 U | 1.2 U | 0.99 U | 0.69 U | 1.1 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.24 U | 0.24 U | 0.16 U | 0.2 U | 0.27 U | 0.25 U | 0.27 U | 0.25 U | 0.24 J | 0.23 U | 0.2 U | 0.14 U | 0.22 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.1 U | 1.2 U | 1 U | 1 U | 6 U | 1.2 U | 6.1 U | 5.7 U | 5 U | 1.1 U | 1 U | 5 U | 5 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 6 U | 6.2 U | 5.5 U | 5.5 U | 33 U | 6.4 U | 34 U | 31 U | 28 UJ | 5.7 UJ | 5.5 UJ | 28 UJ | 28 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 19 U | 19 U | 17 U | 17 U | 110 U | 20 U | 110 U | 96 U | 85 U | 18 U | 17 U | 85 U | 85 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.2 U | 2.3 U | 2 U | 2 U | 12 U | 2.3 U | 13 U | 12 U | 10 U | 2.1 U | 2 U | 10 U | 10 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 7.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 7.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 8.4 U | 1.7 U | 8.6 U | 7.9 U | 7 U | 1.5 U | 1.4 U | 7 U | 7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 8.4 U | 1.7 U | 8.6 U | 7.9 U | 7 U | 1.5 U | 1.4 U | 7 U | 7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 19 | 12 | 1.5 U | 4.4 J | 16 J | 11 J | 34 J | 44 J | 50 J | 32 J | 7.6 J | 7.5 U | 17 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 20 U | 21 U | 18 U | 18 U | 110 U | 21 U | 110 U | 110 U | 90 U | 19 U | 18 U | 90 U | 90 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.35 U | 0.35 U | 1.6 NJ | 0.24 U | 0.38 U | 0.37 U | 0.4 U | 0.37 U | 4.2 NJ | 4.5 NJ | 0.29 U | 1 J | 1.9 NJ |
| Phenol | 108-95-2 | ug/kg | 9.4 J | 4.6 J | 2.4 J | 3.3 J | 12 U | 5.8 J | 13 U | 12 U | 10 U | 7.8 J | 3.7 J | 10 U | 10 U |
| **Phthalates** | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 100 | 76 | 33 | 55 | 210 | 110 | 230 | 290 | 490 J | 260 J | 71 J | 230 J | 220 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.5 U | 3.6 U | 3.2 U | 5.2 J | 20 U | 9.2 J | 20 U | 20 J | 17 J | 15 | 6.7 J | 16 U | 22 J |
| Dibutyl phthalate | 84-74-2 | ug/kg | 19 | 13 | 10 | 11 | 47 U | 17 | 49 U | 45 U | 57 U | 28 U | 55 U | 40 U | 40 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 3.8 J | 2.6 J | 2.2 J | 3 J | 7.8 U | 3.3 J | 8.4 J | 7.4 U | 7.8 J | 6.2 J | 6.3 J | 6.5 U | 8.1 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.1 U | 1.2 U | 1 U | 1 U | 6 U | 2 J | 6.1 U | 5.7 U | 5 U | 1.8 J | 1 U | 5 U | 5 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.9 U | 1.9 U | 1.7 U | 1.7 U | 11 U | 2 U | 11 U | 9.6 U | 8.5 U | 1.8 U | 1.7 U | 8.5 U | 8.5 U |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.9 U | 2.9 U | 2.6 U | 2.6 U | 16 U | 3 U | 16 U | 15 U | 13 U | 2.7 U | 2.6 U | 13 U | 13 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3.2 U | 3.3 U | 2.9 U | 2.9 U | 18 U | 3.4 U | 18 U | 17 U | 15 U | 3 U | 2.9 U | 15 U | 15 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.3 U | 3.4 U | 3 U | 3 U | 18 U | 3.5 U | 19 U | 17 U | 15 U | 3.1 U | 3 U | 15 U | 15 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3.2 U | 3.3 U | 2.9 U | 2.9 U | 18 U | 3.4 U | 18 U | 17 U | 15 U | 4.5 J | 2.9 U | 15 U | 15 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 7.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.2 U | 2.3 U | 2 U | 2 U | 12 U | 2.3 U | 13 U | 12 U | 10 U | 2.1 U | 2 U | 10 U | 10 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.8 U | 1.8 U | 1.6 U | 1.6 U | 83 | 1.9 U | 9.8 U | 9 U | 8 U | 1.7 U | 1.6 U | 8 U | 8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.5 U | 3.6 U | 3.2 U | 3.2 U | 20 U | 3.7 U | 20 U | 18 U | 16 U | 3.3 U | 3.2 U | 16 U | 16 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 4.1 U | 4.2 U | 3.7 U | 3.7 U | 23 U | 4.3 U | 23 U | 21 U | 19 UJ | 3.8 UJ | 3.7 UJ | 19 UJ | 19 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.8 U | 2.8 U | 2.5 U | 2.5 U | 15 U | 2.9 U | 16 U | 15 U | 13 U | 2.6 U | 2.5 U | 13 U | 13 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.8 U | 1.8 U | 1.6 U | 1.6 U | 9.6 U | 1.9 U | 9.8 U | 9 U | 8 U | 1.7 U | 1.6 U | 8 U | 8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2.1 U | 2.2 U | 1.9 U | 1.9 U | 12 U | 2.2 U | 12 U | 11 U | 9.5 U | 2 U | 1.9 U | 13 J | 9.5 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 8.4 U | 1.7 U | 8.6 U | 7.9 U | 7 U | 1.5 U | 1.4 U | 7 U | 7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 2 U | 2.1 U | 1.8 U | 1.8 U | 11 U | 2.1 U | 11 U | 11 U | 9 U | 1.9 U | 1.8 U | 9 U | 9 U |
| Aniline | 62-53-3 | ug/kg | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 7.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.2 U | 1.3 U | 1.1 U | 1.1 U | 6.6 U | 1.3 U | 6.7 U | 6.2 U | 5.5 U | 1.2 U | 1.1 U | 5.5 U | 5.5 U |
| Benzoic acid | 65-85-0 | ug/kg | 120 J | 110 U | 96 U | 96 U | 580 U | 120 U | 590 U | 540 U | 480 U | 98 U | 96 U | 480 U | 480 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 11 | 28 | 4.2 J | 5.9 J | 13 U | 6.5 J | 13 U | 22 J | 11 U | 12 | 6 J | 11 U | 11 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 7.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2.1 U | 2.2 U | 1.9 U | 1.9 U | 12 U | 2.2 U | 12 U | 11 U | 9.5 U | 2 U | 1.9 U | 9.5 U | 9.5 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.9 U | 2.9 U | 2.6 U | 2.6 U | 16 U | 3 U | 16 U | 15 U | 13 U | 2.7 U | 2.6 U | 13 U | 13 U |

Table 4-1. Analytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G738 | LW3-G739 | LW3-G742 | LW3-G743 | LW3-G747 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 24 | 0 - 29 | 0 - 28 | 0 - 22 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 3.1 J | 4.6 J | 1.3 U | 1.7 J | 7.8 U | 2.8 J | 8 U | 18 J | 400 | 5.3 J | 1.9 J | 6.5 U | 6.5 U |
| Dibenzofuran | 132-64-9 | ug/kg | 1.3 J | 1.2 J | 0.59 U | 1.2 J | 1.7 J | 1.9 J | 1.5 J | 29 | 320 | 11 | 0.84 J | 0.9 J | 1.5 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.22 U | 0.23 U | 0.068 U | 0.11 J | 0.24 U | 0.23 U | 0.21 U | 0.23 U | 0.56 U | 0.21 U | 0.19 U | 0.13 U | 0.2 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.16 U | 0.31 U | 0.14 U | 0.14 U | 0.36 | 0.35 U | 0.34 U | 0.23 U | 0.25 J | 2.6 U | 0.2 U | 0.16 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 32 U | 33 U | 29 U | 29 U | 180 U | 34 U | 180 U | 170 U | 150 U | 30 U | 29 U | 150 U | 150 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.18 U | 0.18 U | 0.16 U | 0.16 U | 0.19 U | 0.19 U | 0.2 U | 0.18 U | 0.16 U | 3.2 U | 0.16 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1.1 U | 1.2 U | 1 U | 1 U | 6 U | 1.2 U | 6.1 U | 5.7 U | 5 U | 1.1 U | 1 U | 5 U | 5 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.4 U | 2.5 U | 2.2 U | 2.2 U | 14 U | 2.6 U | 14 U | 13 U | 11 U | 2.3 U | 2.2 U | 11 U | 11 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.7 U | 6.8 U | 6.1 U | 6.1 U | 37 U | 7.1 U | 38 U | 35 U | 31 U | 6.3 U | 6.1 U | 31 U | 31 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.8 U | 1.8 U | 1.6 U | 1.6 U | 9.6 U | 1.9 U | 9.8 U | 9 U | 8 U | 1.7 U | 1.6 U | 8 U | 8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.7 U | 2.7 U | 2.4 U | 2.4 U | 15 U | 2.8 U | 15 U | 14 U | 12 U | 2.5 U | 2.4 U | 12 U | 12 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G656 | LW3-G657 | LW3-G658 | LW3-G659-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 26 | 0 - 21 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 20 U | 1.3 U | 34 U | 1.3 U | 1.4 U | 21 U | 7.3 U | 16 U | 1.3 U | 1.3 U | 2.2 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 9.5 U | 5.3 U | 1.3 U | 9.7 U | 2.3 U | 5.4 U | 72 U | 4.5 U | 13 U | 1.3 U | 1.3 U | 3.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 5.5 U | 21 U | 1.3 U | 24 U | 3.9 U | 7.5 U | 31 U | 8.7 U | 31 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 4.8 U | 2.5 U | 1.3 U | 16 U | 2.5 U | 3.4 U | 31 U | 4.9 U | 9.2 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 7.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.6 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 16 | 13 | 1.3 U | 22 U | 5.2 | 6.3 NJ | 64 U | 8.4 | 23 J | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 6.3 | 6.3 | 1.3 U | 70 | 1.6 J | 3.4 | 36 | 2.6 J | 8.4 J | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.6 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.6 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 22.3 T | 19.3 T | 1.3 UT | 70 T | 6.8 JT | 9.7 JT | 36 T | 11 JT | 31.4 JT | 1.3 UT | 1.3 UT | 3.3 UT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 63.7 J | | | | | 96 J | 66.3 J | | 109 | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.53 | 1.53 | 1.61 T | 1.47 | 1.79 | 1.42 | 1.55 | 1.67 | 1.35 | 1.96 | 1.98 | 2.01 |
| Sulfide | 18496-25-8 | mg/kg | 0.4 U | | | | | 0.4 U | 6.5 | | 0.5 UJ | | | |
| Total organic carbon | TOC | percent | 1.51 | 0.99 | 0.207 T | 1.18 | 0.2 | 2.09 | 1.69 | 0.66 | 2.37 | 0.21 | 0.09 | 0.16 |
| Total solids | TSO | percent | 56.1 T | 56.4 | 81.2 T | 55.2 | 73.5 | 46.8 | 56.6 | 63 | 41.6 | 75.4 | 76.3 | 78.9 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | 0.82 | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | 0.445 J | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | 7.49 | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | 57.6 | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | 224 | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | 5.97 | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | 5.77 | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | 8.58 | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | 11.5 | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | 13.9 | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | 336 JT | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | 0.0268 U | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | 0.116 J | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | 0.115 J | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | 0.865 J | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | 0.306 J | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | 24.2 | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | 1.65 | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | 1.96 J | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | 0.814 J | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | 2.89 | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | 1.02 J | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | 0.047 J | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | 0.235 J | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | 3.92 | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | 0.769 J | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | 1.49 JT | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | 1.49 JA | | | | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.19 | 0 | 26.2 T | 0.04 | 2.58 | 0.12 | 0.15 | 0.32 | 0.07 | 1.04 | 0.71 | 8.02 |
| Fine gravel | GS_FG | percent | 0.16 | 0.61 | 6.83 T | 0.29 | 1.43 | 0.27 | 0.46 | 0.31 | 1.09 | 1.98 | 1.73 | 3.33 |
| Very coarse sand | GS_VCS | percent | 0.37 | 0.79 | 6.12 T | 0.54 | 2.42 | 1.09 | 1.01 | 0.56 | 0.98 | 6.09 | 3.98 | 4.7 |
| Coarse sand | GS_CS | percent | 2.79 | 8.47 | 36.4 T | 1.12 | 25.5 | 1.08 | 7.58 | 8.08 | 0.9 | 51.1 | 38.9 | 38.1 |
| Medium sand | GS_MS | percent | 38.1 | 40.4 | 23.2 T | 2.17 | 58.9 | 1.57 | 20.8 | 69.6 | 1.2 | 38 | 56.3 | 43.7 |
| Fine sand | GS_FS | percent | 14.4 | 9.09 | 1.27 T | 30.5 | 3.44 | 7.19 | 14.2 | 6.16 | 4.7 | 1.3 | 1.54 | 1.13 |
| Very fine sand | GS_VFS | percent | 6.22 | 7.2 | 0.24 T | 46.7 | 0.64 | 28.1 | 15 | 2.35 | 20 | 0.71 | 0.25 | 0.29 |
| Fines | GS_FINES | percent | 38.1 T | 35.1 T | 1.26 T | 23.7 T | 3.64 T | 61.1 T | 45.7 T | 16.3 T | 75 T | 3.49 T | 1.44 T | 2.16 T |
| Coarse silt | GS_CSILT | percent | 11.1 | 9.32 | 0.153 T | 12.3 | 0.41 | 30.2 | 15 | 3.21 | 37.2 | 0.42 | 0.26 | 0.3 |
| Medium silt | GS_MSILT | percent | 9.21 | 9.88 | 0.26 T | 4.46 | 1.04 | 12.5 | 10.9 | 5.25 | 16.6 | 1.03 | 0.39 | 0.48 |
| Fine silt | GS_FSILT | percent | 6.64 | 6.82 | 0.28 T | 2.38 | 0.79 | 6.98 | 7.25 | 3.07 | 8.14 | 0.81 | 0.24 | 0.47 |
| Very fine silt | GS_VFSILT | percent | 3.79 | 3.85 | 0.29 T | 0.44 | 0.76 | 3.42 | 3.63 | 2.05 | 4.75 | 0.58 | 0.21 | 0.48 |
| 8-9 Phi clay | GS_CCLAY | percent | 2.85 | 2.4 | 0.0433 T | 2.42 | 0.35 | 2.34 | 2.35 | 1.29 | 3.8 | 0.45 | 0.11 | 0.13 |
| >9 Phi clay | GS_MFCLAY | percent | 4.55 | 2.84 | 0.237 T | 1.71 | 0.29 | 5.65 | 6.56 | 1.4 | 4.46 | 0.2 | 0.23 | 0.3 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G656 | LW3-G657 | LW3-G658 | LW3-G659-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 26 | 0 - 21 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 20500 | 22100 | 7840 T | 22000 | 10900 | 33600 | 25300 | 15000 | 31200 | 8310 | 8960 | 9310 |
| Antimony | 7440-36-0 | mg/kg | 0.15 J | 0.27 J | 0.18 JT | 0.31 J | 0.2 J | 0.09 J | 0.16 J | 0.26 J | 0.15 J | 0.2 J | 0.19 J | 0.21 J |
| Arsenic | 7440-38-2 | mg/kg | 3 | 3.27 | 2.06 T | 4.68 | 2.25 | 3.57 | 3.89 | 2.42 | 3.46 J | 2.42 | 2.51 | 2.61 |
| Cadmium | 7440-43-9 | mg/kg | 0.145 | 0.127 | 0.036 UT | 0.184 J | 0.042 U | 0.184 | 0.306 | 0.078 U | 0.227 | 0.043 U | 0.036 U | 0.044 U |
| Chromium | 7440-47-3 | mg/kg | 20.4 | 21.3 | 8.72 T | 25.3 | 11 | 28.1 | 25.4 | 15.9 | 30.5 | 8.81 | 8.37 | 9.38 |
| Copper | 7440-50-8 | mg/kg | 27.7 J | 24.9 | 10.6 T | 44.1 | 11.9 | 37 J | 35.4 J | 18.3 | 40 | 10.3 | 9.83 | 11 |
| Lead | 7439-92-1 | mg/kg | 10.6 J | 7.9 | 2.4 T | 27 | 2.8 | 9.73 J | 31.5 J | 5 | 11 | 3.4 | 2.8 | 3.5 |
| Mercury | 7439-97-6 | mg/kg | 0.053 | 0.038 | 0.028 JT | 0.134 | 0.019 | 0.053 | 0.125 | 0.022 | 0.06 | 0.015 J | 0.016 | 0.015 J |
| Nickel | 7440-02-0 | mg/kg | 20.8 J | 18.6 | 10.4 T | 20.9 | 12.5 | 25.5 J | 26.6 J | 16.6 | 24.7 | 11 | 11.1 | 11.2 |
| Silver | 7440-22-4 | mg/kg | 0.135 | 0.13 | 0.04 T | 0.12 | 0.05 | 0.145 | 0.225 | 0.09 | 0.165 | 0.05 | 0.04 | 0.05 |
| Zinc | 7440-66-6 | mg/kg | 97.3 | 88.3 | 43.7 T | 125 | 53.1 | 104 | 190 | 64.4 | 105 | 50 | 53.1 | 53.8 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 43 J | 28 | 1 J | 15 | 3 | 13 | 120 | 120 | 22 | 0.7 J | 3.5 | 0.5 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 58 | 15 | 2.1 J | 28 | 4.2 | 22 | 240 | 17 | 41 | 0.97 J | 4.4 | 0.65 J |
| Acenaphthene | 83-32-9 | ug/kg | 720 | 210 | 5.2 | 100 | 71 | 45 | 1200 | 950 | 87 | 7 | 60 | 0.84 J |
| Acenaphthylene | 208-96-8 | ug/kg | 140 | 42 | 21 | 15 | 44 | 24 | 220 | 100 | 42 | 4 | 11 | 0.31 J |
| Anthracene | 120-12-7 | ug/kg | 1200 | 140 | 21 | 85 | 160 | 80 | 2300 | 760 | 180 | 8.9 | 64 | 2.1 J |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 2500 | 320 | 140 | 400 | 570 | 230 | 3600 | 980 | 490 | 39 | 140 | 5.1 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 3600 | 470 | 210 | 520 | 650 | 370 | 5000 | 1300 | 710 | 50 | 160 | 6.3 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 3300 | 430 | 180 | 640 | 600 | 340 | 4700 | 1200 | 680 | 47 | 140 | 6.5 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 2200 | 290 | 130 | 360 | 370 | 240 | 3200 | 740 | 470 | 32 | 94 | 4.2 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 2900 | 420 | 180 | 400 | 460 | 320 | 4200 | 990 | 560 | 42 | 120 | 6 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 1000 | 130 | 57 | 200 | 200 | 110 | 1500 | 330 | 210 | 15 | 45 | 1.9 J |
| Chrysene | 218-01-9 | ug/kg | 3100 | 360 | 170 J | 450 | 570 | 290 | 4500 | 1300 | 620 | 47 | 160 | 6.5 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 360 | 42 | 16 | 71 | 58 | 38 | 510 | 110 | 71 | 4.3 | 13 | 0.82 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 400 | 97 | 7.9 | 24 | 71 | 27 | 670 | 520 | 54 | 5.9 | 28 | 0.83 J |
| Fluoranthene | 206-44-0 | ug/kg | 5600 | 820 | 280 J | 730 | 1900 | 490 | 8700 | 3500 | 1000 | 90 | 390 | 12 |
| Fluorene | 86-73-7 | ug/kg | 350 | 99 | 3.6 | 81 | 34 | 31 | 1000 | 550 | 60 | 3.4 | 26 | 1.1 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 2700 | 380 | 170 | 420 | 450 | 300 | 3800 | 910 | 530 | 39 | 110 | 5.7 |
| Naphthalene | 91-20-3 | ug/kg | 170 | 36 | 9.3 | 70 | 16 | 61 | 460 | 50 | 110 | 3.6 | 15 | 1.7 J |
| Perylene | 198-55-0 | ug/kg | 960 | 120 | 50 | 150 | 150 | 120 | 1300 | 300 | 210 | 13 | 36 | 2.5 J |
| Phenanthrene | 85-01-8 | ug/kg | 3900 | 760 | 16 | 390 | 520 | 270 | 6900 | 4900 | 510 | 19 | 42 | 8.2 |
| Pyrene | 129-00-0 | ug/kg | 6300 | 990 | 390 J | 680 | 2100 | 560 | 9400 | 4000 | 1100 | 130 | 460 | 14 |
| High Molecular Weight PAH | HPAH | ug/kg | 31000 T | 4400 T | 1800 JT | 4500 T | 7600 T | 3000 T | 46000 T | 15000 T | 6000 T | 500 T | 1700 T | 65 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 6500 T | 1300 T | 78 JT | 770 T | 850 T | 530 T | 12000 T | 7300 T | 1000 T | 47 JT | 220 T | 15 JT |
| Total PAHs | 130498-29-2 | ug/kg | 38000 T | 5700 T | 1900 JT | 5300 T | 8400 T | 3600 T | 58000 T | 22000 T | 7000 T | 550 JT | 2000 T | 80 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 1400 | 180 | 72 | 230 | 320 | 190 | 2000 | 470 | 390 | 26 | 81 | 4.5 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 45 J | 13 | 7.1 | 12 | 35 | 11 | 200 | 73 | 21 | 3.5 | 18 | 0.21 U |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 2300 | 310 | 150 | 320 | 660 | 250 | 3400 | 1100 J | 520 | 46 | 160 | 6.7 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 250 | 44 | 13 | 18 | 65 | 25 | 520 | 260 | 47 | 5.6 | 34 | 2 J |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 1100 | 270 | 65 | 150 | 490 | 100 | 2000 | 1600 J | 220 | 23 | 140 | 5.2 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 600 | 91 | 32 | 120 | 130 | 100 | 1000 | 240 | 230 | 13 | 44 | 0.25 U |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 230 | 51 | 24 | 28 | 110 | 32 | 540 | 250 | 65 | 8.9 | 41 | 0.21 U |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 1000 | 130 | 58 | 150 | 250 | 120 | 1600 | 320 | 280 | 21 | 68 | 3.1 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 210 | 42 | 24 | 23 | 110 | 29 | 500 | 260 | 58 | 8.7 | 48 | 2.4 J |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 330 | 99 | 2.3 J | 48 | 39 | 39 | 580 | 650 | 64 | 2.4 J | 36 | 1.3 J |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 870 | 160 | 69 | 96 | 360 | 130 | 1800 | 730 | 300 | 29 | 110 | 3.4 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 330 | 45 | 15 | 69 | 75 | 59 | 560 | 100 | 130 | 6.9 | 24 | 0.25 U |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 240 | 51 | 14 | 0.21 U | 85 | 43 | 500 | 180 | 80 | 5.5 | 24 | 0.21 U |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 430 | 57 | 27 | 78 | 120 | 66 | 830 | 190 | 130 | 11 | 41 | 0.61 U |
| C3-Fluorene | C3_86-73-7 | ug/kg | 210 | 0.5 U | 23 | 33 | 140 | 37 | 710 | 250 | 82 | 11 | 54 | 0.5 U |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 280 | 82 | 12 | 31 | 120 | 24 | 680 | 600 | 78 | 3.7 | 57 | 1.2 J |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 440 | 110 | 52 | 74 | 240 | 76 | 1200 | 400 | 230 | 24 | 85 | 0.75 U |
| C4-Chrysene | C4_218-01-9 | ug/kg | 58 | 21 | 0.25 U | 34 | 34 | 23 | 160 | 43 | 45 | 0.25 U | 13 | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 150 | 40 | 21 | 26 | 100 | 24 | 540 | 290 | 51 | 7 | 59 | 1.1 J |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 220 | 33 | 25 | 32 | 100 | 35 | 430 | 130 | 66 | 7.9 | 45 | 0.75 U |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G656 | LW3-G657 | LW3-G658 | LW3-G659-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 26 | 0 - 21 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G656 | LW3-G657 | LW3-G658 | LW3-G659-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 26 | 0 - 21 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G656 | LW3-G657 | LW3-G658 | LW3-G659-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 26 | 0 - 21 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 1.8 | 4.9 U | 0.16 U | 2.2 U | 0.33 U | 1.2 U | 28 | 1.2 J | 3.2 J | 0.16 U | 0.16 U | 0.16 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.45 J | 0.46 U | 0.046 U | 0.046 U | 0.2 U | 0.22 U | 3.1 U | 0.2 U | 0.33 U | 0.06 J | 0.046 U | 0.046 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.43 U | 4.8 U | 0.061 U | 4.3 NJ | 0.61 U | 0.77 U | 1.8 U | 0.78 J | 0.98 | 0.061 U | 0.061 U | 0.061 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 6.4 | 5.3 | 0.14 U | 2.6 | 0.82 J | 5.6 J | 110 | 12 J | 4.1 J | 0.39 | 0.48 NJ | 0.18 J |
| 4,4'-DDE | 72-55-9 | ug/kg | 3.1 J | 2.2 J | 0.052 J | 2 NJ | 0.14 J | 4.1 NJ | 13 U | 3.7 U | 3.3 J | 0.27 NJ | 0.47 NJ | 0.077 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 4 | 1.1 J | 0.18 U | 7.5 | 0.19 U | 17 | 23 | 0.94 NJ | 2.7 | 0.18 U | 0.18 U | 0.18 U |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.29 U | 0.35 U | 0.37 U | 0.74 NJ | 0.22 U | 1.2 U | 1.7 U | 0.74 | 0.12 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.22 J | 0.56 NJ | 0.038 U | 0.25 U | 0.17 NJ | 0.17 J | 2 U | 1 U | 0.079 NJ | 0.037 U | 0.037 U | 0.037 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.11 U | 0.97 U | 1.1 J | 0.12 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.2 U | 0.2 U | 0.13 U | 0.031 U | 0.2 U | 0.21 U | 0.31 U | 0.16 U | 0.13 NJ | 0.031 U | 0.031 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.81 NJ | 0.34 U | 0.31 U | 0.15 U | 0.2 U | 0.15 U | 1.4 U | 1 U | 0.37 U | 0.14 U | 0.5 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.15 J | 0.24 J | 0.043 U | 0.35 U | 0.13 U | 0.13 U | 2 U | 1 U | 0.23 J | 0.031 U | 0.031 U | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.89 U | 9.7 U | 0.087 U | 0.2 U | 0.2 U | 0.36 U | 3.4 U | 0.21 U | 0.61 U | 0.087 U | 0.14 U | 0.087 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.29 U | 0.2 U | 0.36 J | 0.15 U | 0.11 U | 0.54 U | 1.1 U | 1.2 U | 0.14 U | 0.11 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.03 U | 0.26 U | 0.11 NJ | 5.3 J | 0.21 J | 0.21 U | 2 U | 1 U | 0.21 J | 0.055 U | 0.03 U | 0.03 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.25 U | 0.4 U | 0.26 U | 1.5 U | 0.81 U | 0.28 U | 0.62 U | 1.9 U | 0.25 U | 0.058 U | 0.078 J | 0.058 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.071 U | 0.071 U | 0.11 U | 0.33 U | 0.076 U | 2 U | 1 U | 0.11 U | 0.071 U | 0.071 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.55 U | 0.65 U | 0.3 U | 0.042 U | 0.94 U | 0.045 U | 2.5 U | 1.9 U | 0.05 UJ | 0.042 U | 0.042 U | 0.042 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.21 U | 0.39 U | 0.029 U | 1.7 U | 0.2 U | 0.24 U | 3.7 U | 1.8 U | 0.38 | 0.029 U | 0.029 U | 0.029 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.73 U | 0.55 U | 0.32 U | 1.3 U | 0.23 U | 0.25 U | 2.1 U | 2 U | 0.51 J | 0.2 U | 0.62 U | 0.062 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.59 J | 0.16 NJ | 0.47 J | 0.28 U | 0.081 U | 0.76 U | 0.38 U | 0.091 U | 0.076 U | 0.1 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.25 U | 0.2 U | 0.068 U | 0.28 U | 0.068 U | 0.22 U | 1.1 NJ | 0.63 U | 0.24 U | 0.068 U | 0.068 U | 0.068 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.76 U | 0.075 U | 0.13 U | 0.87 U | 0.74 U | 0.08 U | 1.5 U | 2 U | 0.52 U | 0.075 U | 0.075 U | 0.075 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G656 | LW3-G657 | LW3-G658 | LW3-G659-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 26 | 0 - 21 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.6 U | 16 NJ | 0.12 U | 0.12 U | 0.12 U | 0.13 U | 1.2 U | 0.12 U | 0.15 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.31 U | 1.5 U | 0.061 U | 2.2 U | 0.47 NJ | 0.46 U | 1.7 U | 0.48 NJ | 0.58 U | 0.068 U | 0.061 U | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.15 JT | 1.6 JT | 0.087 UT | 0.22 T | 0.47 JT | 1 JT | 3.9 UT | 0.66 JT | 1.4 JT | 0.087 UT | 0.14 UT | 0.087 UT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.22 JT | 0.56 JT | 0.26 UT | 1.5 UT | 0.17 JT | 0.17 JT | 2 UT | 1.9 UT | 0.21 JT | 0.058 UT | 0.078 JT | 0.058 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 8.2 T | 5.3 T | 0.16 UT | 2.6 T | 0.82 JT | 5.6 JT | 140 T | 13 JT | 7.3 JT | 0.39 T | 0.48 JT | 0.18 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 16 JT | 8.6 JT | 0.052 JT | 16 JT | 0.96 JT | 27 JT | 160 T | 15 JT | 14 JT | 0.72 JT | 0.95 JT | 0.26 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 3.6 JT | 2.2 JT | 0.052 JT | 2 JT | 0.14 JT | 4.1 JT | 13 UT | 3.7 UT | 3.3 JT | 0.33 JT | 0.47 JT | 0.077 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 4 T | 1.1 JT | 0.18 UT | 12 JT | 0.61 UT | 17 T | 23 T | 1.7 JT | 3.7 T | 0.18 UT | 0.18 UT | 0.18 UT |
| Toxaphene | 8001-35-2 | ug/kg | 34 U | 330 U | 6 U | 42 U | 26 U | 68 U | 91 U | 24 U | 19 U | 7.3 U | 3.8 U | 3.4 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.2 U | 0.32 J | 0.027 U | 0.68 U | 0.066 U | 0.59 J | 3.9 U | 1.1 U | 0.71 NJ | 0.027 U | 0.027 U | 0.031 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.19 U | 1 J | 0.034 U | 0.22 | 0.2 U | 0.44 NJ | 1.8 U | 0.18 NJ | 0.44 NJ | 0.034 U | 0.034 U | 0.034 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 94 J | 110 J | 94 JT | 85 J | 160 J | 54 J | 280 J | 480 J | 83 J | 8.1 U | 4.3 U | 2.7 U |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 57 J | 43 J | 28 JT | 43 J | 35 J | 34 J | 230 J | 130 J | 61 J | 4.5 U | 4.7 U | 3.3 U |
| Residual Range Hydrocarbons | RRH | mg/kg | 310 J | 330 J | 142 JT | 510 J | 160 J | 350 J | 610 J | 460 J | 540 J | 29 J | 9.2 J | 20 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 140 J | 100 J | 19.5 JT | 210 J | 26 J | 140 J | 410 J | 97 J | 200 J | 12 J | 7.1 J | 8 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 404 JA | 440 JA | 236 JA | 595 JA | 320 JA | 404 JA | 890 JA | 940 JA | 623 JA | 29 JA | 9.2 JA | 20 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 197 JA | 143 JA | 47.5 JA | 253 JA | 61 JA | 174 JA | 640 JA | 227 JA | 261 JA | 12 JA | 7.1 JA | 8 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 4.1 U | 0.38 U | 0.26 U | 0.76 J | 0.29 U | 3.5 U | 2 U | 0.33 U | 0.51 U | 0.28 U | 0.28 U | 0.26 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.31 U | 0.31 U | 0.21 U | 1.7 J | 0.23 U | 0.36 U | 0.3 U | 0.27 U | 0.41 U | 0.23 U | 0.23 U | 0.21 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.99 U | 0.98 U | 0.68 U | 0.99 U | 0.74 U | 1.2 U | 0.96 U | 7.8 U | 1.4 U | 0.72 U | 0.72 U | 0.68 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.25 U | 0.55 U | 0.14 U | 0.25 U | 0.15 U | 0.24 U | 0.48 NJ | 0.18 U | 0.27 U | 0.15 U | 0.15 U | 0.14 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 11 U | 5 U | 1 U | 5 U | 1 U | 1.1 U | 11 U | 5 U | 6 U | 1 U | 1 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | 28 U | R | 28 U | 5.5 U | R | R | 28 U | 33 U | 5.5 U | 5.5 U | 5.5 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 180 U | 85 U | 17 U | 85 U | 17 U | 19 U | 180 U | 85 U | 110 U | 17 U | 17 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 21 U | 10 U | 2 U | 10 U | 2 U | 2.2 U | 21 U | 10 U | 12 U | 2 U | 2 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 16 U | 7.5 U | 1.5 U | 7.5 U | 1.5 U | 1.7 U | 16 U | 7.5 U | 9 U | 1.5 U | 1.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 16 U | 7.5 U | 1.5 U | 7.5 U | 1.5 U | 1.7 U | 16 U | 7.5 U | 9 U | 1.5 U | 1.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 15 U | 7 U | 1.4 U | 7 U | 1.4 U | 1.5 U | 15 U | 7 U | 8.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 15 U | 7 U | 1.4 U | 7 U | 1.4 U | 1.5 U | 15 U | 7 U | 8.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 16 U | 7.5 U | 1.5 U | 21 J | 1.5 U | 5.4 J | 16 U | 7.5 U | 21 J | 1.5 U | 1.5 U | 1.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 190 U | 90 U | 18 U | 90 U | 18 U | 20 U | 190 U | 90 U | 110 U | 18 U | 18 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 3.2 U | 2.7 U | 0.2 U | 37 | 0.22 U | 1.3 U | 4.7 NJ | 0.28 J | 1.3 U | 0.21 U | 0.21 U | 0.2 U |
| Phenol | 108-95-2 | ug/kg | 21 U | 10 U | 2 U | 10 U | 3.9 J | 9.5 U | 21 U | 10 U | 32 U | 2.5 J | 2.2 J | 2 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 110 J | 70 J | 7.3 J | 360 | 12 J | 88 | 210 | 50 J | 180 | 9.8 J | 7 U | 8.2 J |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 33 U | 16 U | 3.2 U | 130 | 3.2 U | 7.2 J | 33 U | 16 U | 20 U | 3.8 J | 3.2 U | 3.2 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 1500 | 40 U | 9.1 J | 40 U | 14 | 16 | 80 U | 40 U | 48 U | 7.9 U | 11 | 8.1 J |
| Diethyl phthalate | 84-66-2 | ug/kg | 14 U | 7.8 J | 1.6 J | 9.2 J | 2.4 J | 4.2 J | 14 U | 6.5 U | 8.1 U | 1.9 J | 2.5 J | 1.9 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 11 U | 5 U | 1 U | 5 U | 1 U | 1.1 U | 11 U | 5 U | 6 U | 1 U | 1 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 18 U | 8.5 U | 1.7 U | 8.5 U | 1.7 U | 1.9 U | 18 U | 8.5 U | 11 U | 1.7 U | 1.7 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 27 U | 13 U | 2.6 U | 13 U | 2.6 U | 2.8 U | 27 U | 13 U | 16 U | 2.6 U | 2.6 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 30 U | 15 U | 2.9 U | 15 U | 2.9 U | 3.1 U | 30 U | 15 U | 18 U | 2.9 U | 2.9 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 31 U | 15 U | 3 U | 15 U | 3 U | 3.3 U | 31 U | 15 U | 18 U | 3 U | 3 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 30 U | 15 U | 2.9 U | 15 U | 2.9 U | 3.1 U | 30 U | 15 U | 18 U | 2.9 U | 2.9 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 16 U | 7.5 U | 1.5 U | 7.5 U | 1.5 U | 1.7 U | 16 U | 7.5 U | 9 U | 1.5 U | 1.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 21 U | 10 U | 2 U | 10 U | 2 U | 2.2 U | 21 U | 10 U | 12 U | 2 U | 2 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 17 U | 8 U | 1.6 U | 8 U | 1.6 U | 1.8 U | 17 U | 8 U | 9.6 U | 1.6 U | 1.6 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 33 U | 16 U | 3.2 U | 16 U | 3.2 U | 3.5 U | 33 U | 16 U | 20 U | 3.2 U | 3.2 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 38 U | 19 U | 3.7 UJ | 19 U | 3.7 U | 4 U | 38 U | 19 U | 23 U | 3.7 U | 3.7 U | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 26 U | 13 U | 2.5 U | 13 U | 2.5 U | 2.7 U | 26 U | 13 U | 15 U | 2.5 U | 2.5 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 17 U | 8 U | 1.6 U | 8 U | 1.6 U | 1.8 U | 17 U | 8 U | 9.6 U | 1.6 U | 1.6 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 20 U | 9.5 U | 1.9 U | 9.5 U | 1.9 U | 2.1 U | 20 U | 9.5 U | 12 U | 1.9 U | 1.9 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 15 U | 7 U | 1.4 U | 7 U | 1.4 U | 1.5 U | 15 U | 7 U | 8.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 19 U | 9 U | 1.8 U | 9 U | 1.8 U | 2 U | 19 U | 9 U | 11 U | 1.8 U | 1.8 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 16 U | 7.5 U | R | 7.5 U | 1.5 U | 12 J | 16 U | 7.5 U | 9 U | 1.5 U | 1.5 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 12 U | 5.5 U | 1.1 U | 5.5 U | 1.1 U | 1.2 U | 12 U | 5.5 U | 6.6 U | 1.1 U | 1.1 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 970 U | 480 U | 96 U | 480 U | 96 U | 130 J | 970 U | 480 U | 580 U | 96 U | 96 U | 96 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 22 U | 11 U | 2.1 U | 11 U | 2.1 U | 11 | 22 U | 11 U | 17 J | 2.1 U | 2.1 U | 2.1 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 16 U | 7.5 U | 1.5 U | 7.5 U | 1.5 U | 1.7 U | 16 U | 7.5 U | 9 U | 1.5 U | 1.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 20 U | 9.5 U | 1.9 U | 9.5 U | 1.9 U | 2.1 U | 20 U | 9.5 U | 12 U | 1.9 U | 1.9 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 27 U | 13 U | 2.6 U | 13 U | 2.6 U | 2.8 U | 27 U | 13 U | 16 U | 2.6 U | 2.6 U | 2.6 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G648 | LW3-G649 | LW3-G650 | LW3-G651 | LW3-G652 | LW3-G653 | LW3-G654 | LW3-G655 | LW3-G656 | LW3-G657 | LW3-G658 | LW3-G659-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 26 | 0 - 25 | 0 - 30 | 0 - 25 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 26 | 0 - 21 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 180 | 11 J | 1.3 U | 89 | 1.3 U | 11 | 570 | 13 J | 45 J | 1.3 U | 1.3 U | 1.3 U |
| Dibenzofuran | 132-64-9 | ug/kg | 50 J | 8 | 0.59 U | 64 | 4 | 8.1 | 140 | 79 | 18 | 0.59 U | 3.2 | 0.59 U |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.35 U | 0.33 U | 0.18 J | 0.34 U | 0.17 J | 0.17 U | 2.2 | 1.3 U | 0.25 | 0.068 U | 0.068 U | 0.068 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.7 U | 1.4 U | 0.14 U | 0.14 U | 0.14 U | 0.15 U | 1.4 U | 0.14 U | 0.17 U | 0.14 U | 0.14 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 300 U | 150 U | 29 U | 150 U | 29 U | 31 U | 300 U | 150 U | 180 U | 29 U | 29 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.8 U | 1.6 U | 0.16 U | 0.16 U | 0.16 U | 0.18 U | 1.6 U | 0.16 U | 0.2 U | 0.16 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 11 U | 5 U | 1 U | 5 U | 1 U | 1.1 U | 11 U | 5 U | 6 U | 1 U | 1 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 23 U | 11 U | 2.2 U | 11 U | 2.2 U | 2.4 U | 23 U | 11 U | 14 U | 2.2 U | 2.2 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 62 U | 31 U | 6.1 UJ | 31 U | 6.1 U | 6.6 U | 62 U | 31 U | 37 U | 6.1 U | 6.1 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 17 U | 8 U | 1.6 U | 8 U | 1.6 U | 1.8 U | 17 U | 8 U | 9.6 U | 1.6 U | 1.6 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 25 U | 12 U | 2.4 U | 12 U | 2.4 U | 2.6 U | 25 U | 12 U | 15 U | 2.4 U | 2.4 U | 2.4 U |

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Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G659-2 | LW3-G660 | LW3-G663 | LW3-G664 | LW3-G665 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G670 | LW3-G671 | LW3-G672 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 23 | 0 - 26 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 26 | 0 - 28 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 4.5 U | 1.3 U | 6.7 U | 1.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 7.2 U | 2.7 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 3.6 U | 2.1 U | 5 U | 1.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.7 U | 1.3 U | 2.5 U | 5 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 2 U | 2.5 U | 4.6 U | 1.5 U | 5.2 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 16 U | 3.9 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 2.5 U | 4.3 U | 7 U | 69 | 1.3 U | 1.4 U | 8.9 J | 2.1 U | 1.3 U | 1.3 U | 11 U | 2.1 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 1.3 U | 1.7 NJ | 22 NJ | 87 J | 6.9 | 2.6 U | 7.9 | 13 | 1.3 U | 1.3 U | 26 J | 4.4 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 1.3 U | 2.1 J | 20 | 89 | 12 | 1.4 U | 2.9 | 5.2 J | 1.3 U | 1.3 U | 28 | 6 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 4.5 UT | 3.8 JT | 42 JT | 245 JT | 18.9 T | 2.6 UT | 19.7 JT | 18.2 JT | 1.7 UT | 1.3 UT | 54 JT | 10.4 T |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | 0.4 J | | 43 J | | | | | 93 | 92.8 J | 54.2 J |
| Specific Gravity | SPEC_GRAV | NA | 1.92 | 1.83 | 1.51 | 1.38 T | 1.47 | 1.68 | 1.62 | 1.51 | 1.71 T | 2.4 | 1.46 | 1.59 |
| Sulfide | 18496-25-8 | mg/kg | | | 0.4 U | | 0.4 U | | | | | 1.7 | 0.7 J | 0.4 U |
| Total organic carbon | TOC | percent | 0.15 | 0.31 T | 1.37 | 2.36 | 1.45 | 0.31 | 0.51 | 1.26 | 0.357 T | 0.5 | 1.54 | 0.88 |
| Total solids | TSO | percent | 75.6 | 72.4 | 57 | 44.3 | 50.6 | 70.2 | 70.1 | 51.3 | 74.5 T | 76.8 | 50.5 | 61 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | 0.793 | 0.445 J | 0.25 J | 0.31 J | 0.249 J | | 0.356 J | 13.3 | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | 2.32 J | 0.922 J | 0.0405 U | 0.231 J | 0.0127 U | | 0.242 J | 42.8 | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | 15.5 | 9.3 | 1.38 J | 4.77 | 3.82 | | 2.62 | 331 | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | 87.4 | 81.5 | 7.82 | 41.2 | 39.3 | | 21.5 | 2380 | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | 509 | 367 | 34.6 | 177 | 297 | | 108 | 11100 J | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | 2.55 | 0.86 | 0.799 | 0.62 | 5.51 | | 0.299 J | 23.5 | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | 8.32 | 2.94 J | 1.23 J | 1.97 J | 26 | | 1.12 J | 96.5 | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | 13.3 | 9.75 | 2.14 J | 5.35 | 21.5 | | 4 | 328 | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | 21.2 | 16.5 | 2.89 | 8.95 | 22.3 | | 7.27 | 418 | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | 21.9 | 13.8 | 3.75 J | 8.38 | 40.9 | | 6.66 | 237 | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | 682 JT | 503 JT | 54.9 JT | 249 JT | 457 JT | | 152 JT | 15000 JT | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | 0.127 U | 0.00988 U | 0.0119 U | 0.0205 U | 0.00596 U | | 0.00678 U | 0.881 | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | 0.243 J | 0.164 J | 0.0405 U | 0.0717 J | 0.049 U | | 0.038 U | 4.65 | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | 0.314 J | 0.218 J | 0.0205 U | 0.114 U | 0.0536 U | | 0.0701 J | 7.18 U | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | 1.99 J | 1.85 J | 0.193 J | 0.853 J | 0.577 J | | 0.423 J | 79.3 | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | 1.07 J | 0.713 J | 0.13 J | 0.388 J | 0.281 J | | 0.191 J | 23.3 | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | 39 | 37.9 | 3.67 | 18.9 | 19.8 | | 9.63 | 1270 | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | 0.661 J | 0.159 U | 0.23 J | 0.181 J | 3.47 | | 0.105 J | 3.38 | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | 0.64 J | 0.167 J | 0.197 J | 0.129 J | 14.2 | | 0.0697 U | 4.06 | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | 0.464 J | 0.167 J | 0.119 J | 0.115 J | 3.68 | | 0.0861 J | 3.55 | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | 1.29 J | 0.595 J | 0.533 J | 0.446 J | 12.4 | | 0.555 J | 15 | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | 0.781 J | 0.286 J | 0.135 J | 0.167 J | 2.89 J | | 0.149 J | 8.08 | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | 0.0438 U | 0.0333 U | 0.0179 U | 0.017 U | 0.247 J | | 0.0192 U | 0.786 J | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | 0.572 J | 0.357 J | 0.0998 J | 0.18 J | 0.772 J | | 0.168 J | 11.7 | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | 5.7 | 4.52 | 0.907 J | 2.43 | 5.15 | | 1.89 J | 116 | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | 0.513 J | 0.343 J | 0.259 J | 0.202 J | 1.05 J | | 0.214 J | 7.43 | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | 1.68 JT | 1.16 JT | 0.234 JT | 0.603 JT | 3.96 JT | | 0.344 JT | 38.2 JT | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | 4.68 JT | 1.7 JT | 0.563 JT | 0.721 JT | 4.18 JT | | 0.345 JT | 39.3 JT | 0.298 JA |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 4.21 | 0.16 | 2.09 | 0.19 | 0 | 0.47 | 0.04 | 0.16 | 0.0567 T | 3.27 | 0 | 4.67 |
| Fine gravel | GS_FG | percent | 3.35 | 1.14 | 4.08 | 0.8 | 0.02 | 0.84 | 0.65 | 0.33 | 0.123 T | 2.93 | 0 | 1.9 |
| Very coarse sand | GS_VCS | percent | 5.2 | 4.5 | 4.1 | 0.51 | 0.57 | 0.73 | 3.09 | 0.25 | 0.157 T | 4.59 | 0.56 | 1.62 |
| Coarse sand | GS_CS | percent | 39.5 | 51.9 | 11.6 | 1.79 | 1.44 | 14.9 | 28.4 | 2.54 | 5.61 T | 20.5 | 8.51 | 7.22 |
| Medium sand | GS_MS | percent | 51.1 | 34.2 | 28.4 | 10.8 | 3.92 | 59.6 | 46.9 | 16.6 | 56.3 T | 43.3 | 9.05 | 29.5 |
| Fine sand | GS_FS | percent | 1.31 | 2.29 | 10.9 | 2.82 | 13.1 | 12.6 | 4.78 | 9.79 | 21.5 T | 11 | 8.46 | 15 |
| Very fine sand | GS_VFS | percent | 0.38 | 1.62 | 5.8 | 5.43 | 24.3 | 4.36 | 5.94 | 18.6 | 4.21 T | 1.64 | 16.5 | 11.7 |
| Fines | GS_FINES | percent | 2.57 T | 6.36 T | 35.4 T | 80.7 T | 55.4 T | 6.11 T | 13.3 T | 57.5 T | 8.86 T | 8.12 T | 64.8 T | 32 T |
| Coarse silt | GS_CSILT | percent | 0.32 | 1 | 8.55 | 17.5 | 26 | 1.44 | 2.15 | 21.8 | 2.42 T | 1.48 | 19.1 | 10.1 |
| Medium silt | GS_MSILT | percent | 0.61 | 1.31 | 7.54 | 26 | 10.5 | 1.5 | 3.4 | 14.5 | 2.17 T | 1.79 | 13.9 | 7.52 |
| Fine silt | GS_FSILT | percent | 0.65 | 1.26 | 6.12 | 15.6 | 6.69 | 1.07 | 2.6 | 8.36 | 1.49 T | 1.85 | 10.7 | 5.01 |
| Very fine silt | GS_VFSILT | percent | 0.48 | 1.17 | 4.56 | 7.34 | 3.54 | 1.11 | 2.32 | 5.59 | 1.24 T | 1.25 | 6.85 | 3.36 |
| 8-9 Phi clay | GS_CCLAY | percent | 0.25 | 0.82 | 3.59 | 4.78 | 2.76 | 0.39 | 1.42 | 3.09 | 0.723 T | 0.68 | 6.73 | 2.61 |
| >9 Phi clay | GS_MFCLAY | percent | 0.26 | 0.8 | 5.08 | 9.52 | 5.87 | 0.6 | 1.44 | 4.15 | 0.817 T | 1.07 | 7.5 | 3.39 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G659-2 | LW3-G660 | LW3-G663 | LW3-G664 | LW3-G665 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G670 | LW3-G671 | LW3-G672 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 23 | 0 - 26 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 26 | 0 - 28 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 7960 | 10900 | 17400 | 33200 | 26200 | 17100 | 12900 | 26300 | 13400 T | 11700 | 29300 | 1950 |
| Antimony | 7440-36-0 | mg/kg | 0.19 J | 0.22 J | 0.13 J | 1.21 J | 0.14 J | 0.52 J | 0.49 J | 0.63 J | 0.5 JT | 0.31 J | 0.15 J | 0.08 J |
| Arsenic | 7440-38-2 | mg/kg | 2.32 | 3.55 | 3.45 | 3.82 | 3.02 | 3.71 | 2.43 | 3.23 | 2.04 T | 2.19 | 3.84 | 2.71 |
| Cadmium | 7440-43-9 | mg/kg | 0.04 U | 0.053 | 0.199 | 0.298 | 0.176 | 0.055 | 0.073 | 0.169 | 0.056 T | 0.065 | 0.251 | 0.113 |
| Chromium | 7440-47-3 | mg/kg | 8.62 | 9.82 | 18.1 | 28.5 J | 24.2 | 14.5 J | 13 J | 24.1 J | 12.7 JT | 11.8 | 24.2 | 15.8 |
| Copper | 7440-50-8 | mg/kg | 9.71 | 13.5 | 34.5 J | 41.9 | 37.8 J | 15.7 | 17.1 | 32 | 14 T | 14.8 | 48.1 J | 22.8 J |
| Lead | 7439-92-1 | mg/kg | 3 | 12 | 16.8 J | 23 | 10.8 J | 5.6 | 5.8 | 9.7 | 3.75 T | 4 J | 17.6 J | 6.89 J |
| Mercury | 7439-97-6 | mg/kg | 0.017 J | 0.117 | 0.069 | 0.103 | 0.065 | 0.023 | 0.018 | 0.048 | 0.016 JT | 0.017 J | 0.239 | 0.034 |
| Nickel | 7440-02-0 | mg/kg | 10.8 | 10.2 | 17.7 J | 21.9 | 23.3 J | 15.6 | 15.2 | 20.7 | 16.8 T | 15.1 | 21.7 J | 15.5 J |
| Silver | 7440-22-4 | mg/kg | 0.04 | 0.06 | 0.191 | 0.43 | 0.154 | 0.15 | 0.15 | 0.16 | 0.155 T | 0.08 | 0.296 | 0.108 |
| Zinc | 7440-66-6 | mg/kg | 50 | 73.7 | 125 | 171 | 104 | 69.3 | 68.6 | 90.1 | 59.5 T | 48.8 | 138 | 9.7 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 0.97 J | 4.4 | 3 | 1100 | 9.1 | 0.31 U | 0.63 J | 1.5 J | 0.31 U | 0.52 J | 16 | 11 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 1.1 J | 5.8 | 6.2 | 150 | 28 | 0.4 J | 1 J | 2.9 | 0.45 J | 0.87 J | 40 | 21 |
| Acenaphthene | 83-32-9 | ug/kg | 5.1 | 8.7 | 5.5 | 2600 | 18 | 0.39 U | 1.2 U | 3 | 0.66 U | 0.56 J | 72 | 160 |
| Acenaphthylene | 208-96-8 | ug/kg | 2 J | 24 | 7.2 | 15 | 4 | 1.6 J | 0.88 J | 2.6 | 0.62 J | 0.47 J | 9.9 | 5.1 |
| Anthracene | 120-12-7 | ug/kg | 4.1 | 54 | 19 | 200 | 24 | 110 | 2.2 U | 6 | 1.9 U | 0.86 J | 49 | 90 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 17 | 160 | 62 | 170 | 42 | 190 | 6.3 | 19 | 4 | 2.1 J | 120 | 120 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 23 | 200 | 88 | 120 | 42 | 34 | 6.7 | 27 | 3.8 | 1.7 J | 100 | 55 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 22 | 200 | 110 | 130 | 61 | 110 | 10 | 29 | 4.1 | 3 | 150 | 100 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 15 | 140 | 69 | 84 | 36 | 42 | 6 | 20 | 2.6 | 1.8 J | 85 | 55 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 21 | 170 | 81 | 77 | 34 | 16 | 6.2 | 26 | 3.2 | 1.8 J | 69 | 26 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 6.5 | 58 | 35 | 42 | 18 | 44 | 3.2 | 8.8 | 1.6 J | 0.95 J | 50 | 32 |
| Chrysene | 218-01-9 | ug/kg | 22 | 180 | 87 | 180 | 57 | 270 | 8.6 | 26 | 4.2 | 3.1 | 150 | 140 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 2.3 J | 20 | 12 | 12 | 5.6 | 5.3 | 0.91 J | 2.9 | 0.59 J | 0.4 J | 16 | 7.8 |
| Dibenzothiophene | 132-65-0 | ug/kg | 3.3 | 20 | 3.5 | 100 | 5.3 | 5.9 | 0.41 U | 1.6 J | 0.27 U | 0.21 U | 15 | 38 |
| Fluoranthene | 206-44-0 | ug/kg | 65 | 360 | 120 | 740 | 110 | 980 | 15 | 40 | 8.8 | 6.6 | 320 | 460 |
| Fluorene | 86-73-7 | ug/kg | 1.6 J | 12 | 5.6 | 650 | 21 | 3.2 | 1.1 J | 2.7 | 0.66 J | 0.69 J | 56 | 170 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 19 | 160 | 74 | 66 | 31 | 21 | 5.6 | 22 | 2.8 | 1.2 J | 70 | 26 |
| Naphthalene | 91-20-3 | ug/kg | 3.2 | 12 | 16 | 170 | 59 | 1.3 U | 5.6 | 8.9 | 1.5 U | 1.9 J | 89 | 34 |
| Perylene | 198-55-0 | ug/kg | 6.3 | 54 | 28 | 56 | 46 | 8.6 | 16 | 21 | 2.2 J | 3 | 79 | 25 |
| Phenanthrene | 85-01-8 | ug/kg | 6.6 | 220 | 55 | 1600 | 63 | 240 | 5.8 U | 22 | 5.4 U | 2.6 | 200 | 460 |
| Pyrene | 129-00-0 | ug/kg | 84 | 450 | 140 | 690 | 100 | 590 | 16 | 45 | 9.9 | 6.5 | 260 | 300 |
| High Molecular Weight PAH | HPAH | ug/kg | 280 JT | 2000 T | 810 T | 2200 T | 500 T | 2300 T | 79 JT | 250 T | 43 JT | 27 JT | 1300 T | 1300 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 24 JT | 340 T | 110 T | 5400 T | 220 T | 360 JT | 8.6 JT | 48 T | 1.7 JT | 8 JT | 520 T | 940 T |
| Total PAHs | 130498-29-2 | ug/kg | 310 JT | 2300 T | 920 T | 7600 T | 720 T | 2600 JT | 87 JT | 290 T | 45 JT | 35 JT | 1800 T | 2200 T |
| C1-Chrysene | C1_218-01-9 | ug/kg | 8.3 | 97 | 55 | 240 | 40 | 91 | 7.7 | 20 | 2.6 | 2.2 J | 110 | 71 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 0.21 U | 5.3 | 2.8 | 78 | 5.1 | 0.84 J | 1.2 J | 2.3 J | 0.21 U | 0.21 U | 19 | 23 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 17 | 150 | 59 | 400 | 70 | 330 | 8.9 | 23 | 5.6 | 3.6 | 200 | 160 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 2.6 | 15 | 3.7 | 140 | 8.4 | 9.5 | 1.1 J | 2.7 | 0.86 J | 0.5 U | 24 | 57 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 8.3 | 130 | 19 | 760 | 22 | 300 | 4.9 | 15 | 4.4 | 1.3 J | 71 | 110 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 3.9 | 59 | 36 | 280 | 26 | 24 | 5.9 | 13 | 1.4 J | 1.7 J | 87 | 40 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 0.21 U | 27 | 6 | 250 | 8.7 | 9.6 | 1.8 J | 4 | 0.79 J | 0.21 U | 31 | 22 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 6 | 76 | 38 | 310 | 35 | 71 | 5.6 | 16 | 2.1 J | 2.8 | 120 | 80 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 3.5 | 15 | 4.5 | 170 | 9.7 | 14 | 1.8 J | 4.5 | 0.77 J | 0.69 J | 30 | 41 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 1.4 J | 22 | 5.7 | 560 | 23 | 0.76 J | 1.5 J | 3.7 | 1 J | 1 J | 43 | 98 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 7.5 | 85 | 30 | 580 | 38 | 120 | 4.2 | 11 | 2.4 J | 1.7 J | 96 | 110 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 0.25 U | 45 | 26 | 210 | 22 | 8.2 | 5.2 | 10 | 0.25 U | 0.25 U | 65 | 34 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 0.21 U | 21 | 5.5 | 250 | 8.2 | 4 | 1.7 J | 5.3 | 0.21 U | 0.21 U | 54 | 28 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 2.5 | 51 | 21 | 260 | 20 | 24 | 4.9 | 11 | 1.5 J | 1.7 J | 80 | 36 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 3.7 | 21 | 6.3 | 260 | 13 | 24 | 4 | 7 | 0.5 U | 0.5 U | 51 | 46 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 1.6 J | 19 | 3.7 | 370 | 9.5 | 0.91 J | 1.3 J | 3.1 | 0.65 J | 0.54 J | 27 | 97 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 6.7 | 65 | 22 | 530 | 24 | 43 | 4.9 | 12 | 2.1 J | 2.8 | 130 | 75 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 16 | 7.3 | 110 | 9.5 | 0.25 U | 0.25 U | 9 | 0.25 U | 0.25 U | 33 | 12 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 2.7 | 15 | 4.3 | 220 | 8.5 | 1.6 J | 1.7 J | 3.7 | 0.37 U | 0.37 U | 32 | 61 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 2 J | 35 | 8.4 | 230 | 14 | 14 | 5.8 | 9.4 | 0.75 U | 0.75 U | 61 | 29 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | 95.4 | 4.99 U | 4.53 J | 4.92 U | 4.98 U | | 11.3 U | 18.6 | 6.11 |
| PCB002 | 2051-61-8 | pg/g | | | | 26.9 | 17.3 | 10.2 | 4.92 U | 11.7 | | 11.3 U | 39.3 | 11.3 |
| PCB003 | 2051-62-9 | pg/g | | | | 93.9 | 6.66 | 6.51 | 4.92 U | 5 | | 11.3 U | 20 | 9.38 |
| PCB004 & 010 | PCB004_010 | pg/g | | | | 477 | 59.2 | 19.8 | 9.83 U | 15.9 | | 22.7 U | 41.7 | 24.2 UJ |
| PCB005 & 008 | PCB005_008 | pg/g | | | | 2010 | 28.6 | 43.6 | 9.83 U | 28.8 | | 22.7 U | 87.8 | 41.3 |
| PCB006 | 25569-80-6 | pg/g | | | | 400 | 9.97 U | 10.1 | 9.83 U | 9.97 U | | 22.7 U | 22.9 | 10.7 UJ |
| PCB007 & 009 | PCB007_009 | pg/g | | | | 180 | 9.97 U | 10.1 U | 9.83 U | 9.97 U | | 22.7 U | 20.1 U | 9.83 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G659-2 | LW3-G660 | LW3-G663 | LW3-G664 | LW3-G665 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G670 | LW3-G671 | LW3-G672 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 23 | 0 - 26 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 26 | 0 - 28 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | 113 | 117 | 199 | 32.3 | 121 | | 29.5 UJ | 386 | 90.4 |
| PCB012 & 013 | PCB012_013 | pg/g | | | | 152 | 9.97 U | 10.1 U | 9.83 U | 9.97 U | | 22.7 U | 20.1 U | 9.83 U |
| PCB014 | 34883-41-5 | pg/g | | | | 9.8 U | 9.97 U | 10.1 U | 9.83 U | 9.97 U | | 22.7 U | 20.1 U | 9.83 U |
| PCB015 | 2050-68-2 | pg/g | | | | 886 | 40.3 | 62.9 | 12.4 | 34.8 | | 22.7 U | 121 | 48.2 |
| PCB016 & 032 | PCB016_032 | pg/g | | | | 2320 | 61.4 | 49.9 | 12.4 | 36.3 | | 11.3 U | 129 | 47.9 |
| PCB017 | 37680-66-3 | pg/g | | | | 1930 | 69.2 | 36 | 8.7 | 25.8 | | 11.3 U | 98 | 34.9 |
| PCB018 | 37680-65-2 | pg/g | | | | 3650 | 62.2 | 75.6 | 15.2 | 52.3 | | 15.6 | 158 | 60.5 |
| PCB019 | 38444-73-4 | pg/g | | | | 297 | 166 | 26.2 | 8.03 | 18 | | 11.3 U | 75.7 | 32.5 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | 3710 | 52.3 | 82.3 | 16.7 | 57.4 | | 14.2 | 168 | 47.7 |
| PCB022 | 38444-85-8 | pg/g | | | | 1960 | 42.3 | 56.8 | 9.31 | 37 | | 11.3 U | 86 | 32.3 |
| PCB023 | 55720-44-0 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB024 & 027 | PCB024_027 | pg/g | | | | 246 | 29 | 7.81 | 4.92 U | 5.67 | | 11.3 U | 26.5 | 7.67 |
| PCB025 | 55712-37-3 | pg/g | | | | 574 | 13.9 | 19.5 | 4.92 U | 13.7 | | 11.3 U | 41.7 | 10.6 |
| PCB026 | 38444-81-4 | pg/g | | | | 882 | 19.8 | 30 | 6.45 | 20.6 | | 11.3 U | 65.5 | 14.3 |
| PCB028 | 7012-37-5 | pg/g | | | | 6860 | 134 | 182 | 33.2 | 131 | | 24.6 | 388 | 123 |
| PCB029 | 15862-07-4 | pg/g | | | | 26.1 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB030 | 35693-92-6 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB031 | 16606-02-3 | pg/g | | | | 4960 | 83.9 | 150 | 27.2 | 98 | | 15.4 | 273 | 74.4 |
| PCB034 | 37680-68-5 | pg/g | | | | 81.1 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 5.3 J | 4.91 U |
| PCB035 | 37680-69-6 | pg/g | | | | 75 | 4.99 U | 5.25 | 4.92 U | 4.98 U | | 11.3 U | 17.1 | 4.91 U |
| PCB036 | 38444-87-0 | pg/g | | | | 5.33 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB037 | 38444-90-5 | pg/g | | | | 1520 | 48.9 | 73 | 13.7 | 49.9 | | 11.3 U | 153 | 41.4 |
| PCB038 | 53555-66-1 | pg/g | | | | 31.9 | 17.8 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 | 4.91 U |
| PCB039 | 38444-88-1 | pg/g | | | | 36.6 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 5.9 J | 4.91 U |
| PCB040 | 38444-93-8 | pg/g | | | | 955 | 31.6 | 30.7 | 4.92 U | 24.3 | | 11.3 U | 75.2 | 20.8 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | 4740 | 169 | 178 | 32.7 | 140 | | 22.6 | 491 | 108 |
| PCB042 & 059 | PCB042_059 | pg/g | | | | 1890 | 66.2 | 56 | 10.4 | 46 | | 11.3 U | 196 | 48.1 |
| PCB043 & 049 | PCB043_049 | pg/g | | | | 5260 | 268 | 181 | 34.6 | 142 | | 24.2 | 1030 | 158 |
| PCB044 | 41464-39-5 | pg/g | | | | 5710 | 203 | 188 | 31.9 | 143 | | 25.4 UJ | 671 | 149 |
| PCB045 | 70362-45-7 | pg/g | | | | 816 | 20.4 | 19.1 | 4.92 U | 15.9 | | 11.3 U | 60.3 | 16.8 |
| PCB046 | 41464-47-5 | pg/g | | | | 353 | 16 | 9.58 | 4.92 U | 7.93 | | 11.3 U | 38.7 | 8.76 |
| PCB047 | 2437-79-8 | pg/g | | | | 1660 | 462 | 92.3 | 29.3 | 71.5 | | 23 | 674 | 129 |
| PCB048 & 075 | PCB048_075 | pg/g | | | | 1340 | 40.5 | 34.5 | 6.82 | 27.1 | | 11.3 U | 98 | 25.9 |
| PCB050 | 62796-65-0 | pg/g | | | | 26.2 | 12.5 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 6.5 J | 4.91 U |
| PCB051 | 68194-04-7 | pg/g | | | | 283 | 172 | 20.8 | 7.87 | 17.9 | | 11.3 U | 174 | 36.1 |
| PCB052 & 069 | PCB052_069 | pg/g | | | | 6230 | 272 | 243 | 50.2 | 179 | | 32.7 | 1140 | 174 |
| PCB053 | 41464-41-9 | pg/g | | | | 764 | 123 | 37.5 | 9.29 | 29.3 | | 11.3 U | 209 | 41.8 |
| PCB054 | 15968-05-5 | pg/g | | | | 13.9 | 49.4 | 5.24 | 4.92 U | 4.98 U | | 11.3 U | 29.1 | 7.2 |
| PCB055 | 74338-24-2 | pg/g | | | | 54.1 | 5.4 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 14.4 | 4.91 U |
| PCB056 & 060 | PCB056_060 | pg/g | | | | 3010 | 98.4 | 123 | 19.1 | 98.2 | | 12.7 | 253 | 79 |
| PCB057 | 70424-67-8 | pg/g | | | | 34.2 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 6.45 J | 4.91 U |
| PCB058 | 41464-49-7 | pg/g | | | | 51 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 11.3 | 4.91 U |
| PCB061 & 070 | PCB061_070 | pg/g | | | | 7470 | 213 | 285 | 45.5 | 210 | | 30.2 | 989 | 182 |
| PCB062 | 54230-22-7 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB063 | 74472-34-7 | pg/g | | | | 246 | 10 | 8.36 | 4.92 U | 6.99 | | 11.3 U | 32.1 | 6.51 |
| PCB065 | 33284-54-7 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB066 & 076 | PCB066_076 | pg/g | | | | 6020 | 197 | 223 | 43.8 | 182 | | 24.9 | 857 | 166 |
| PCB067 | 73575-53-8 | pg/g | | | | 170 | 8.52 | 6.42 | 4.92 U | 5.45 | | 11.3 U | 20.4 | 4.91 U |
| PCB068 | 73575-52-7 | pg/g | | | | 82.9 | 9.61 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 40.1 | 4.91 U |
| PCB073 | 74338-23-1 | pg/g | | | | 4.9 U | 15.4 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 14.2 | 5.87 |
| PCB074 | 32690-93-0 | pg/g | | | | 2820 | 87.8 | 103 | 17.2 | 79.7 | | 11.8 | 274 | 69.2 |
| PCB077 | 32598-13-3 | pg/g | | | | 490 | 21.9 | 29.7 | 5.34 U | 20.8 | | 4.28 U | 67.8 | 16.6 |
| PCB078 | 70362-49-1 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB079 | 41464-48-6 | pg/g | | | | 107 | 8.72 | 5.79 | 4.92 U | 5.25 | | 11.3 U | 47.8 | 5.53 |
| PCB080 | 33284-52-5 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB081 | 70362-50-4 | pg/g | | | | 20.8 | 2.11 U | 2.5 J | 0.89 U | 0.973 J | | 1.11 U | 4.76 U | 1.23 U |
| PCB082 | 52663-62-4 | pg/g | | | | 753 | 51.1 | 39.8 | 10.4 | 29.8 | | 11.3 U | 188 | 32.4 |
| PCB083 | 60145-20-2 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB084 & 092 | PCB084_092 | pg/g | | | | 3560 | 285 | 163 | 46.6 | 121 | | 21.1 | 1020 | 125 |
| PCB085 & 116 | PCB085_116 | pg/g | | | | 1040 | 60.8 | 71.2 | 17 | 49.8 | | 11.3 U | 235 | 39.9 |
| PCB086 | 55312-69-1 | pg/g | | | | 25.2 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | 1970 | 145 | 135 | 31.3 | 91.9 | | 14.1 | 519 | 74.9 |
| PCB088 & 091 | PCB088_091 | pg/g | | | | 1280 | 134 | 73.6 | 21 | 56.6 | | 11.3 U | 472 | 55.7 |
| PCB089 | 73575-57-2 | pg/g | | | | 90.8 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 14.6 | 4.91 U |
| PCB090 & 101 | PCB090_101 | pg/g | | | | 8850 | 690 | 460 | 117 | 327 | | 56.3 | 2610 | 326 |
| PCB093 | 73575-56-1 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G659-2 | LW3-G660 | LW3-G663 | LW3-G664 | LW3-G665 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G670 | LW3-G671 | LW3-G672 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 23 | 0 - 26 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 26 | 0 - 28 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | 40.7 | 32.8 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 27.3 | 5.05 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | 6680 | 531 | 341 | 88.4 | 235 | | 41 | 1770 | 244 |
| PCB096 | 73575-54-9 | pg/g | | | | 75.4 | 13.8 | 5.93 | 4.92 U | 4.98 U | | 11.3 U | 26.1 | 4.91 U |
| PCB097 | 41464-51-1 | pg/g | | | | 2050 | 127 | 112 | 28 | 79.6 | | 14.4 | 584 | 73.8 |
| PCB099 | 38380-01-7 | pg/g | | | | 3820 | 344 | 205 | 55 | 160 | | 26.1 | 1520 | 170 |
| PCB100 | 39485-83-1 | pg/g | | | | 65.5 | 118 | 11.3 | 6.55 | 8.67 | | 11.3 U | 102 | 16.2 |
| PCB103 | 60145-21-3 | pg/g | | | | 233 | 43.7 | 12.2 | 4.92 U | 10.8 | | 11.3 U | 95.4 | 12.7 |
| PCB104 | 56558-16-8 | pg/g | | | | 4.9 U | 10.8 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 6.39 J | 4.91 U |
| PCB105 | 32598-14-4 | pg/g | | | | 1370 | 155 | 131 | 26 | 86.7 | | 19.7 UJ | 460 | 82.9 |
| PCB106 & 118 | PCB106_118 | pg/g | | | | 5470 | 436 | 383 | 85 | 261 | | 39.7 | 1770 | 239 |
| PCB107 & 109 | PCB107_109 | pg/g | | | | 584 | 37.4 | 29.8 | 8.11 | 23.5 | | 11.3 U | 163 | 21.3 |
| PCB108 & 112 | PCB108_112 | pg/g | | | | 367 | 47.8 | 18.1 | 5.66 | 14.2 | | 11.3 U | 96.8 | 14.3 |
| PCB110 | 38380-03-9 | pg/g | | | | 8390 | 573 | 537 | 126 | 369 | | 54.1 | 2410 | 332 |
| PCB111 & 115 | PCB111_115 | pg/g | | | | 57.9 | 7.25 | 7.74 | 4.92 U | 4.98 U | | 11.3 U | 20.1 | 4.91 U |
| PCB113 | 68194-10-5 | pg/g | | | | 52.3 | 6.74 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 13.9 | 4.91 U |
| PCB114 | 74472-37-0 | pg/g | | | | 78.9 | 7.47 | 6.64 | 1.61 J | 4.03 J | | 2.36 U | 25.4 | 4.06 J |
| PCB119 | 56558-17-9 | pg/g | | | | 324 | 40.4 | 15.9 | 5.62 | 13.9 | | 11.3 U | 144 | 15.8 |
| PCB120 | 68194-12-7 | pg/g | | | | 41.4 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 41.4 | 4.91 U |
| PCB121 | 56558-18-0 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB122 | 76842-07-4 | pg/g | | | | 57.5 | 5.94 | 5.1 | 4.92 U | 4.98 U | | 11.3 U | 17.2 | 4.91 U |
| PCB123 | 65510-44-3 | pg/g | | | | 65.2 | 6.22 | 6.71 | 1.89 U | 4.96 J | | 2.98 U | 15.6 | 3.66 J |
| PCB124 | 70424-70-3 | pg/g | | | | 160 | 13.1 | 15.2 | 4.92 U | 8.73 | | 11.3 U | 50.2 | 7.95 |
| PCB126 | 57465-28-8 | pg/g | | | | 27 | 5.11 | 3.07 J | 1.14 J | 2.08 J | | 2.11 U | 9.63 J | 2.85 J |
| PCB127 | 39635-33-1 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB128 & 162 | PCB128_162 | pg/g | | | | 1010 | 138 | 81.3 | 21.4 | 52.9 | | 11.3 U | 343 | 49.1 |
| PCB129 | 55215-18-4 | pg/g | | | | 251 | 49.2 | 22.7 | 6.08 | 13.6 | | 11.3 U | 87.1 | 10.8 |
| PCB130 | 52663-66-8 | pg/g | | | | 633 | 78 | 46.9 | 12.8 | 37 | | 11.3 U | 204 | 29.1 |
| PCB131 | 61798-70-7 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB132 & 161 | PCB132_161 | pg/g | | | | 2770 | 338 | 163 | 44.7 | 113 | | 15.1 UJ | 788 | 119 |
| PCB133 & 142 | PCB133_142 | pg/g | | | | 423 | 62.1 | 20.6 | 5.73 | 16.5 | | 11.3 U | 138 | 16.8 |
| PCB134 & 143 | PCB134_143 | pg/g | | | | 485 | 96.3 | 28.1 | 8.05 | 19.8 | | 11.3 U | 153 | 22.3 |
| PCB135 | 52744-13-5 | pg/g | | | | 1990 | 276 | 103 | 26.5 | 77.3 | | 11.3 U | 469 | 79 |
| PCB136 | 38411-22-2 | pg/g | | | | 1800 | 233 | 94.8 | 25.3 | 67 | | 11.3 U | 428 | 76 |
| PCB137 | 35694-06-5 | pg/g | | | | 249 | 38.7 | 20.7 | 5.56 | 16.3 | | 11.3 U | 109 | 12.7 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | 9730 | 1730 | 635 | 165 | 431 | | 75.9 | 2570 | 390 |
| PCB139 & 149 | PCB139_149 | pg/g | | | | 11600 | 1320 | 633 | 160 | 465 | | 67 | 2170 | 387 |
| PCB140 | 59291-64-4 | pg/g | | | | 130 | 10.1 | 6.69 | 4.92 U | 6.99 | | 11.3 U | 53.7 | 6.62 |
| PCB141 | 52712-04-6 | pg/g | | | | 1930 | 535 | 115 | 30.7 | 78.2 | | 15.3 | 500 | 96.9 |
| PCB144 | 68194-14-9 | pg/g | | | | 511 | 78.6 | 32.3 | 7.82 | 20.1 | | 11.3 U | 80.2 | 18.5 |
| PCB145 | 74472-40-5 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB146 & 165 | PCB146_165 | pg/g | | | | 2430 | 321 | 116 | 31.6 | 94.2 | | 13.9 UJ | 730 | 89.1 |
| PCB147 | 68194-13-8 | pg/g | | | | 179 | 78.4 | 24.4 | 7.21 | 15.7 | | 11.3 U | 106 | 17.9 |
| PCB148 | 74472-41-6 | pg/g | | | | 93 | 9.41 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 26.8 | 4.91 U |
| PCB150 | 68194-08-1 | pg/g | | | | 40.9 | 8.41 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 24.4 | 4.91 U |
| PCB151 | 52663-63-5 | pg/g | | | | 3760 | 623 | 184 | 47.6 | 132 | | 28.6 | 550 | 144 |
| PCB152 | 68194-09-2 | pg/g | | | | 5.67 | 7.94 | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 6.69 J | 4.91 U |
| PCB153 | 35065-27-1 | pg/g | | | | 12100 | 2550 | 632 | 179 | 470 | | 85.7 | 3360 | 539 |
| PCB154 | 60145-22-4 | pg/g | | | | 397 | 49.1 | 18.7 | 6.71 | 19.1 | | 11.3 U | 175 | 17.9 |
| PCB155 | 33979-03-2 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB156 | 38380-08-4 | pg/g | | | | 671 | 156 | 49.5 | 12.7 | 33 | | 5.55 U | 219 | 32 |
| PCB157 | 69782-90-7 | pg/g | | | | 98 | 13.2 | 11.1 | 2.5 J | 7.07 | | 2.15 U | 44.1 | 5.97 |
| PCB158 & 160 | PCB158_160 | pg/g | | | | 741 | 160 | 61.9 | 15.3 | 40.1 | | 11.3 U | 233 | 36.2 |
| PCB159 | 39635-35-3 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB166 | 41411-63-6 | pg/g | | | | 16.8 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB167 | 52663-72-6 | pg/g | | | | 267 | 63.1 | 22.7 | 5.5 | 14.5 | | 3.89 J | 90.6 | 13.7 |
| PCB168 | 59291-65-5 | pg/g | | | | 24.3 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.7 | 4.91 U |
| PCB169 | 32774-16-6 | pg/g | | | | 3.18 U | 1.63 U | 0.873 U | 0.407 U | 0.569 U | | 2.33 U | 2.09 U | 0.646 U |
| PCB170 | 35065-30-6 | pg/g | | | | 3610 | 1550 | 179 | 51.7 | 136 | | 26.8 | 781 | 179 |
| PCB171 | 52663-71-5 | pg/g | | | | 1070 | 368 | 48.7 | 14 | 36.3 | | 11.3 U | 212 | 47.6 |
| PCB172 | 52663-74-8 | pg/g | | | | 668 | 232 | 33 | 9.47 | 26 | | 11.3 U | 135 | 28.3 |
| PCB173 | 68194-16-1 | pg/g | | | | 84.4 | 33.8 | 5.23 | 4.92 U | 4.98 U | | 11.3 U | 17.1 | 4.91 U |
| PCB174 | 38411-25-5 | pg/g | | | | 4970 | 1540 | 236 | 63.2 | 167 | | 32.7 | 937 | 212 |
| PCB175 | 40186-70-7 | pg/g | | | | 214 | 65.5 | 11.8 | 4.92 U | 8.16 | | 11.3 U | 41.2 | 8.49 |
| PCB176 | 52663-65-7 | pg/g | | | | 637 | 185 | 31.8 | 9.29 | 23.9 | | 11.3 U | 133 | 25.9 |
| PCB177 | 52663-70-4 | pg/g | | | | 2750 | 951 | 125 | 35.8 | 94.2 | | 19.3 | 625 | 137 |
| PCB178 | 52663-67-9 | pg/g | | | | 1080 | 317 | 53.7 | 16.3 | 43.1 | | 11.3 U | 230 | 46.4 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G659-2 | LW3-G660 | LW3-G663 | LW3-G664 | LW3-G665 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G670 | LW3-G671 | LW3-G672 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 23 | 0 - 26 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 26 | 0 - 28 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | 2280 | 691 | 116 | 31.7 | 84.7 | | 15.5 UJ | 493 | 103 |
| PCB180 | 35065-29-3 | pg/g | | | | 10100 | 3810 | 470 | 134 | 356 | | 71.5 | 1950 | 444 |
| PCB181 | 74472-47-2 | pg/g | | | | 22.6 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 6.23 J | 4.91 U |
| PCB182 & 187 | PCB182_187 | pg/g | | | | 6160 | 1870 | 335 | 96.6 | 260 | | 45.5 | 1360 | 278 |
| PCB183 | 52663-69-1 | pg/g | | | | 2500 | 950 | 133 | 38.9 | 97.8 | | 19.9 | 549 | 119 |
| PCB184 | 74472-48-3 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB185 | 52712-05-7 | pg/g | | | | 524 | 175 | 22.9 | 5.91 | 17 | | 11.3 U | 95.2 | 25.2 |
| PCB186 | 74472-49-4 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB188 | 74487-85-7 | pg/g | | | | 8.4 | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB189 | 39635-31-9 | pg/g | | | | 125 | 53.4 | 7.12 | 2.32 J | 5.2 | | 1.59 U | 28.3 | 6.7 |
| PCB190 | 41411-64-7 | pg/g | | | | 769 | 314 | 38.7 | 11.5 | 30.3 | | 11.3 U | 156 | 34.8 |
| PCB191 | 74472-50-7 | pg/g | | | | 141 | 51.1 | 8.05 | 4.92 U | 6.09 | | 11.3 U | 29.5 | 6.69 |
| PCB192 | 74472-51-8 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB193 | 69782-91-8 | pg/g | | | | 511 | 171 | 24.2 | 6.99 | 19.9 | | 11.3 U | 103 | 22.5 |
| PCB194 | 35694-08-7 | pg/g | | | | 2390 | 833 | 106 | 32.9 | 95.7 | | 15.1 | 493 | 86.4 |
| PCB195 | 52663-78-2 | pg/g | | | | 1040 | 421 | 44.2 | 12.8 | 38.8 | | 11.3 U | 210 | 41.6 |
| PCB196 & 203 | PCB196_203 | pg/g | | | | 2450 | 889 | 169 | 46.7 | 138 | | 21.3 | 520 | 114 |
| PCB197 | 33091-17-7 | pg/g | | | | 81.3 | 31.8 | 5.43 | 4.92 U | 4.98 U | | 11.3 U | 22.1 | 4.91 U |
| PCB198 | 68194-17-2 | pg/g | | | | 112 | 40.2 | 9.34 | 4.92 U | 6.41 | | 11.3 U | 29.7 | 7.66 |
| PCB199 | 52663-75-9 | pg/g | | | | 2320 | 788 | 167 | 41.4 | 139 | | 17.1 UJ | 518 | 124 |
| PCB200 | 52663-73-7 | pg/g | | | | 322 | 104 | 22.2 | 5.95 | 16.5 | | 11.3 U | 63.6 | 15.7 |
| PCB201 | 40186-71-8 | pg/g | | | | 312 | 113 | 16.9 | 5.06 | 15.7 | | 11.3 U | 76.6 | 18.4 |
| PCB202 | 2136-99-4 | pg/g | | | | 443 | 132 | 27.4 | 7.78 | 22.8 | | 11.3 U | 98.3 | 23 |
| PCB204 | 74472-52-9 | pg/g | | | | 4.9 U | 4.99 U | 5.04 U | 4.92 U | 4.98 U | | 11.3 U | 10.1 U | 4.91 U |
| PCB205 | 74472-53-0 | pg/g | | | | 104 | 38.5 | 5.1 | 4.92 U | 5.03 | | 11.3 U | 21.4 | 4.91 U |
| PCB206 | 40186-72-9 | pg/g | | | | 701 | 172 | 65.5 | 20.8 | 65.6 | | 11.3 U | 206 | 39.2 |
| PCB207 | 52663-79-3 | pg/g | | | | 87.4 | 20.9 | 8.33 | 4.92 U | 8 | | 11.3 U | 24.6 | 4.91 U |
| PCB208 | 52663-77-1 | pg/g | | | | 161 | 31.1 | 20.5 | 6.54 | 20.4 | | 11.3 U | 62.7 | 10.9 |
| PCB209 | 2051-24-3 | pg/g | | | | 352 | 71.3 | 73.1 | 23.2 | 72.1 | | 11.3 U | 147 | 37.5 |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | 235000 T | 33600 T | 11600 JT | 2770 JT | 8470 JT | | 1050 JT | 48400 JT | 8540 JT |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | 3 T | 0.54 T | 0.329 JT | 0.118 JT | 0.223 JT | | 0.00131 JT | 1.05 JT | 0.298 JT |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | 216 T | 24 T | 21.2 JT | 4.92 UT | 16.7 T | | 11.3 UT | 77.9 T | 26.8 T |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | 4220 T | 245 T | 335 T | 44.7 T | 201 T | | 29.5 UJT | 659 T | 180 T |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | 29200 T | 801 T | 794 T | 151 T | 546 T | | 69.8 T | 1700 JT | 527 T |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | 50600 T | 2580 T | 1880 JT | 339 T | 1450 JT | | 182 T | 7520 JT | 1450 T |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | 47600 T | 3930 T | 2790 JT | 680 JT | 1960 JT | | 267 T | 14400 JT | 1900 JT |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | 54300 T | 9020 T | 3120 T | 828 JT | 2240 T | | 276 JT | 13700 JT | 2210 T |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | 38200 T | 13300 T | 1880 T | 528 JT | 1410 T | | 216 T | 7880 JT | 1720 T |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | 9570 T | 3390 T | 573 T | 153 T | 478 T | | 36.4 T | 2050 T | 431 T |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | 949 T | 224 T | 94.3 T | 27.3 T | 94 T | | 11.3 UT | 293 T | 50.1 T |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.16 U | 0.29 J | 2 J | 7.2 NJ | 0.52 | 0.25 | 0.87 J | 2.2 | 0.16 U | 0.16 U | 2.3 J | 0.45 |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.046 U | 0.046 U | 0.26 U | 1.1 U | 0.046 U | 0.047 U | 0.22 U | 0.18 U | 0.061 J | 0.067 U | 0.046 U | 0.17 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.061 U | 0.14 U | 1.9 | 7.8 J | 1.1 NJ | 0.33 | 0.3 J | 0.68 U | 0.061 U | 0.12 U | 2.4 J | 0.62 NJ |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.17 J | 0.31 | 1.8 | 5.6 | 1.3 J | 0.76 | 0.29 J | 6.5 | 0.23 | 0.21 J | 3 | 1 |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.14 J | 0.21 J | 1.4 J | 10 J | 1.6 | 0.5 | 0.39 | 2.2 | 0.2 | 0.22 U | 2.9 | 0.87 |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.18 U | 0.36 U | 31 J | 8.6 U | 1.5 | 1.3 J | 0.79 NJ | 11 | 0.18 U | 0.2 U | 3.3 | 1.7 |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.48 U | 0.25 U | 0.37 NJ | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.037 U | 0.037 U | 0.21 U | 0.24 U | 0.09 U | 0.037 U | 0.046 U | 0.15 U | 0.037 U | 0.039 U | 0.2 U | 0.037 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.12 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.031 U | 0.29 U | 1.5 | 0.039 U | 0.058 U | 0.04 U | 0.19 U | 0.031 U | 0.031 U | 0.3 U | 0.2 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 0.71 NJ | 0.2 J | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.32 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.031 U | 0.22 | 0.27 J | 0.095 J | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.2 U | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.087 U | 0.087 U | 1.5 U | 5.3 U | 0.9 U | 0.13 U | 0.19 U | 0.29 U | 0.087 U | 0.11 U | 2 U | 0.5 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.11 U | 0.11 U | 0.13 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.064 J | 0.1 NJ | 0.2 U | 0.23 U | 0.081 U | 0.11 NJ | 0.12 J | 0.03 U | 0.074 J | 0.097 J | 0.2 U | 0.16 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.058 U | 0.2 U | 0.066 U | 0.2 U | 0.058 U | 0.058 U | 0.2 U | 0.058 U | 0.058 U | 0.56 J | 0.2 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.071 U | 0.19 U | 1.8 U | 0.071 U | 0.071 U | 0.071 U | 0.2 | 0.071 U | 0.071 U | 0.2 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 0.18 U | 0.2 U | 1.5 U | 0.2 U | 0.042 U | 0.06 U | 0.042 U | 0.042 U | 0.042 U | 0.2 U | 0.042 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.17 U | 0.068 U | 0.45 U | 1.8 U | 0.31 U | 0.065 U | 0.2 U | 0.22 U | 0.045 U | 0.12 J | 0.52 U | 0.2 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.28 U | 0.084 U | 0.22 U | 0.97 U | 0.14 U | 0.062 U | 0.062 U | 0.27 U | 0.12 U | 0.11 U | 0.4 U | 0.66 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.22 J | 0.076 U | 0.52 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.2 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.068 U | 0.18 NJ | 0.2 U | 1.4 NJ | 0.2 U | 0.068 U | 0.075 NJ | 0.18 U | 0.068 U | 0.11 U | 0.83 NJ | 0.17 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.12 U | 0.075 U | 1.9 U | 1.1 U | 0.77 U | 0.2 U | 0.13 U | 0.44 U | 0.092 U | 0.14 U | 0.69 U | 0.62 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G659-2 | LW3-G660 | LW3-G663 | LW3-G664 | LW3-G665 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G670 | LW3-G671 | LW3-G672 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 23 | 0 - 26 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 26 | 0 - 28 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.14 U | 0.12 U | 0.13 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 U | 0.061 U | 0.16 U | 0.58 J | 0.23 U | 0.062 U | 0.061 U | 0.2 U | 0.061 U | 0.061 U | 0.18 U | 0.17 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.031 JT | 0.09 JT | 0.92 T | 0.85 JT | 0.2 JT | 0.13 UT | 0.12 JT | 0.37 UT | 0.081 JT | 0.11 UT | 1.3 JT | 0.5 UT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.058 UT | 0.058 UT | 0.29 UT | 1.5 T | 0.2 UT | 0.058 UT | 0.058 UT | 0.2 UT | 0.058 UT | 0.058 UT | 0.56 JT | 0.2 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.17 JT | 0.6 JT | 3.8 JT | 13 JT | 1.8 JT | 1 T | 1.2 JT | 8.7 T | 0.23 T | 0.21 JT | 5.3 JT | 1.5 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 0.31 JT | 0.81 JT | 38 JT | 31 JT | 6 JT | 3.1 JT | 2.6 JT | 22 T | 0.49 JT | 0.21 JT | 14 JT | 4.6 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.14 JT | 0.21 JT | 1.4 JT | 10 JT | 1.6 T | 0.5 T | 0.39 T | 2.2 T | 0.26 JT | 0.22 UT | 2.9 T | 0.87 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.18 UT | 0.36 UT | 33 JT | 7.8 JT | 2.6 JT | 1.6 JT | 1.1 JT | 11 T | 0.18 UT | 0.2 UT | 5.7 JT | 2.3 JT |
| Toxaphene | 8001-35-2 | ug/kg | 3.4 U | 6.8 U | 54 U | 160 U | 29 U | 15 U | 6.9 U | 15 U | 3.5 U | 7.8 U | 51 U | 20 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.031 J | 0.09 J | 0.7 | 0.67 U | 0.19 U | 0.13 U | 0.12 J | 0.37 U | 0.081 J | 0.051 U | 1.2 J | 0.19 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.034 U | 0.034 U | 0.44 U | 0.22 U | 0.1 J | 0.035 U | 0.076 U | 0.2 U | 0.034 U | 0.034 U | 0.068 NJ | 0.097 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 4.9 U | 84 J | 39 J | 270 J | 55 J | 8.2 J | 21 J | 59 J | 10.5 JT | 12.9 JT | 200 J | 51 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 4.7 U | 46 J | 29 J | 220 J | 44 J | 5.3 U | 18 J | 46 J | 7.85 JT | 6.2 JT | 190 J | 39 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 15 J | 170 J | 170 J | 660 J | 260 J | 33 J | 81 J | 270 J | 56 JT | 54.9 JT | 550 J | 180 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 9.8 J | 67 J | 100 J | 490 J | 140 J | 19 J | 54 J | 150 J | 23 JT | 20 JT | 440 J | 93 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 15 JA | 254 JA | 209 JA | 930 JA | 315 JA | 41.2 JA | 102 JA | 329 JA | 66.5 JA | 67.8 JA | 750 JA | 231 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 9.8 JA | 113 JA | 129 JA | 710 JA | 184 JA | 19 JA | 72 JA | 196 JA | 30.9 JA | 26.2 JA | 630 JA | 132 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.28 U | 0.29 U | 0.37 U | 0.48 U | 0.46 U | 0.29 U | 0.3 U | 0.41 U | 0.29 U | 0.27 U | 7.6 U | 2.9 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.23 U | 0.24 U | 0.3 U | 3.5 U | 0.34 U | 0.24 U | 0.24 U | 0.33 U | 0.23 U | 0.22 U | 0.34 U | 0.28 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.73 U | 0.76 U | 0.96 U | 1.3 U | 1.1 U | 0.76 U | 0.78 U | 1.1 U | 0.74 U | 0.71 U | 1.1 U | 0.9 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.15 U | 0.16 U | 0.2 U | 0.25 U | 0.22 U | 0.16 U | 0.16 U | 0.21 UJ | 0.15 UJ | 0.15 U | 0.31 J | 0.18 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 1 U | 1.1 U | 5.7 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 U R | R | | 31 UJ R | | 5.5 UJ | 5.5 UJ | 5.5 UJ | 5.5 UJ | 5.5 U R | | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 17 U | 18 U | 96 U | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | 85 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 2 U | 2.1 U | 12 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 1.5 U | 1.6 U | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 1.5 U | 1.6 U | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 1.4 U | 1.5 U | 7.9 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 1.4 U | 1.5 U | 7.9 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 1.5 U | 1.5 U | 1.6 U | 22 J | 2.7 J | 1.5 U | 1.5 U | 4.9 J | 1.5 U | 1.5 U | 12 J | 1.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 18 U | 19 U | 110 U | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 90 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.22 U | 0.77 J | 7.5 NJ | 0.36 U | 4.5 NJ | 0.23 U | 0.23 U | 0.31 U | 0.22 U | 0.53 NJ | 14 NJ | 7.4 NJ |
| Phenol | 108-95-2 | ug/kg | 2.2 J | 2 U | 5.1 U | 12 U | 8.6 U | 2 U | 3.5 J | 5.2 J | 2.2 J | 3.1 J | 45 U | 14 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 12 J | 33 | 110 | 100 J | 140 | 11 J | 33 | 66 | 17 J | 23 | 320 | 67 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 3.2 U | 3.4 J | 19 U | 3.2 U | 3.2 U | 4.1 J | 3.2 U | 3.2 U | 3.2 U | 16 U | 4.6 J |
| Dibutyl phthalate | 84-74-2 | ug/kg | 14 | 11 | 9 J | 45 U | 13 | 7.9 U | 14 | 11 | 7.9 U | 14 | 40 U | 17 |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.5 J | 3 J | 2.9 J | 8 J | 3.3 J | 1.6 J | 2.4 J | 1.9 J | 2.1 J | 2.7 J | 7.3 J | 3.4 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 1 U | 1.1 U | 5.7 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 1.7 U | 1.8 U | 9.6 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 8.5 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 2.6 U | 2.7 U | 15 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 13 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 2.9 U | 3 U | 17 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 15 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 3 U | 3.1 U | 17 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 15 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 2.9 U | 3 U | 17 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 15 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 1.5 U | 1.6 U | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 2 U | 2.1 U | 12 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 1.6 U | 1.7 U | 9.1 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 8 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 3.2 U | 3.3 U | 19 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 16 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 3.7 U | 3.8 U | 21 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 UJ | 3.7 U | 19 U | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 2.5 U | 2.6 U | 15 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 13 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 1.6 U | 1.7 U | 9.1 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 8 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 1.9 U | 2 U | 11 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 9.5 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 1.4 U | 1.5 U | 7.9 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 1.8 U | 1.9 U | 11 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 9 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 1.5 U | 1.5 U | 11 J | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 UJ | 1.5 UJ | 7.5 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 1.1 U | 1.2 U | 6.2 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 UJ | 1.1 U | 5.5 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 96 U | 97 U | 550 U | 96 U | 96 U | 96 U | 96 U | 96 U | 96 U | 480 U | 130 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 2.1 U | 4.4 J | 4.6 J | 12 U | 7.2 J | 2.5 J | 4.6 J | 4 J | 2.1 U | 4.6 J | 12 J | 12 |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 1.5 U | 1.6 U | 8.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 1.9 U | 2 U | 11 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 9.5 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 2.6 U | 2.7 U | 15 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 13 U | 2.6 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G659-2 | LW3-G660 | LW3-G663 | LW3-G664 | LW3-G665 | LW3-G666 | LW3-G667 | LW3-G668 | LW3-G669 | LW3-G670 | LW3-G671 | LW3-G672 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 23 | 0 - 26 | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 26 | 0 - 28 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 3.7 J | 5.6 J | 120 | 3.6 J | 6.6 J | 1.3 U | 1.7 J | 1.3 U | 1.3 U | 17 J | 5.3 J |
| Dibenzofuran | 132-64-9 | ug/kg | 0.59 U | 1.5 J | 4.8 | 190 | 24 | 0.59 U | 0.92 J | 1.4 J | 0.59 U | 0.59 U | 37 | 25 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.14 J | 0.068 U | 0.27 U | 0.47 U | 0.068 U | 0.071 U | 0.068 U | 0.2 U | 0.068 U | 0.068 U | 0.2 U | 0.1 J |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 0.16 U | 0.14 U | 0.15 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.2 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 29 U | 30 U | 170 U | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 150 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.16 U | 0.37 | 0.18 U | 0.16 U | 0.17 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 1 U | 1.1 U | 5.7 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 2.2 U | 2.3 U | 13 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 11 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 6.1 U | 6.2 U | 35 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 UJ | 6.1 UJ | 31 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 1.6 U | 1.7 U | 9.1 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 8 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 2.4 U | 2.5 U | 14 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 12 U | 2.4 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G673 | LW3-G674 | LW3-G675 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G683 | LW3-G684-1 | LW3-G684-2 | LW3-G685 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.4 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 5.1 U | 1.3 U | 1.3 UT | 1.4 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.4 U | 3.5 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 2.3 U | 1.3 U | 1.3 UT | 5.2 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.4 U | 4.5 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 30 U | 1.3 U | 1.3 UT | 6.9 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.4 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 7.5 U | 1.6 U | 9.7 U | 1.3 U | 32 T | 2.6 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.4 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.4 U | 1.3 U | 1.3 UT | 1.4 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 12 | 18 | 2.4 U | 23 | 7 | 5.4 | 1.4 U | 9.6 | 5.2 U | 15 | 28 JT | 4.1 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 6 | 4.9 | 1.3 U | 19 J | 9.1 J | 5.6 | 4.9 | 6.7 | 3.4 U | 11 | 29 JT | 6 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.4 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.4 U | 1.3 U | 1.3 UT | 1.4 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.4 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.4 U | 1.6 U | 1.4 U | 1.3 U | 16 NJT | 1.4 U |
| Aroclors | 12767-79-2 | ug/kg | 18 T | 22.9 T | 2.4 UT | 42 JT | 16.1 JT | 11 T | 4.9 T | 16.3 T | 30 UT | 26 T | 105 JT | 10.1 T |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | 18.7 | 19.7 J | | | | | | 99 | 71.6 | 66.5 T | 79.7 |
| Specific Gravity | SPEC_GRAV | NA | 1.46 | 1.65 T | 1.68 | 1.43 | 1.5 | 1.42 | 1.4 T | 1.4 | 1.4 | 1.82 | 1.81 T | 1.43 |
| Sulfide | 18496-25-8 | mg/kg | | 4 | 2.1 | | | | | | 0.5 U | 0.45 U | 5.4 T | 1.6 |
| Total organic carbon | TOC | percent | 1.5 | 0.7 T | 0.5 | 1.53 | 1.35 | 1.69 | 1.62 T | 1.94 | 1.7 | 1.3 | 1.89 T | 1.56 |
| Total solids | TSO | percent | 49.1 | 64 | 72.6 | 48.2 | 52.7 | 46.6 | 49.1 T | 43 | 47.3 | 53 | 54.6 T | 48 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.422 J | | | | 0.135 J | | 2.18 | 0.569 J | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 0.341 J | | | | 0.0281 J | | 2.05 J | 0.15 J | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 3.66 | | | | 0.901 J | | 12 | 3.62 J | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 22.2 | | | | 5.19 | | 74.8 | 23.9 | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 105 | | | | 24.1 | | 340 | 113 | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 1.4 | | | | 0.344 J | | 4.95 | 1.42 | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 1.79 J | | | | 0.501 J | | 7.53 | 2.28 J | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 3.24 J | | | | 0.993 J | | 14.2 | 4.26 | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 5.94 | | | | 1.53 J | | 23.2 | 6.81 | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 8.39 | | | | 1.88 J | | 26.2 | 8.39 | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | 152 JT | | | | 35.6 JT | | 507 JT | 164 JT | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.0367 U | | | | 0.00492 U | | 0.0883 U | 0.0357 U | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.077 J | | | | 0.0281 J | | 0.246 J | 0.0945 J | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.11 J | | | | 0.0199 U | | 0.349 U | 0.0991 J | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 0.447 J | | | | 0.143 J | | 1.84 J | 0.544 J | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 0.293 J | | | | 0.0865 J | | 1.11 J | 0.346 U | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 9.5 | | | | 2.51 J | | 36.8 | 11.2 | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.457 J | | | | 0.0415 U | | 1.21 | 0.461 U | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.339 J | | | | 0.0841 J | | 0.81 J | 0.431 J | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.182 J | | | | 0.052 J | | 0.511 J | 0.218 J | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 0.548 J | | | | 0.162 J | | 1.94 J | 0.799 J | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.198 J | | | | 0.0604 J | | 0.673 J | 0.25 J | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0221 U | | | | 0.0178 U | | 0.0536 U | 0.0521 U | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.155 U | | | | 0.0451 J | | 0.56 J | 0.188 J | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 1.77 J | | | | 0.471 J | | 6.81 | 2.12 J | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.239 J | | | | 0.0326 U | | 0.662 J | 0.25 J | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 0.496 JT | | | | 0.134 JT | | 1.71 JT | 0.533 JT | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.755 JT | 0.226 JA | 0.427 JA | 0.787 JA | 0.137 JT | | 1.75 JT | 0.798 JT | | 0.0233 JA | 0.468 JA | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 1.65 | 0.47 | 0.23 | 0.02 | 0.08 | 0.01 | 0.22 | 0 | 0.12 | 0.005 T | 0 |
| Fine gravel | GS_FG | percent | 0.53 | 1.07 | 0.77 | 0.54 | 0.26 | 0.5 | 0.21 | 1.43 | 0.33 | 0.41 | 0.455 T | 0.24 |
| Very coarse sand | GS_VCS | percent | 0.56 | 2.12 | 1.53 | 0.23 | 0.31 | 0.54 | 1.22 | 1 | 0.47 | 0.57 | 0.43 T | 0.66 |
| Coarse sand | GS_CS | percent | 2.06 | 17.8 | 26 | 0.48 | 2.4 | 0.6 | 1.21 | 0.57 | 0.37 | 0.71 | 0.585 T | 0.48 |
| Medium sand | GS_MS | percent | 11 | 29.7 | 54.8 | 2.34 | 12.5 | 1.07 | 4.18 | 1.06 | 0.52 | 1.85 | 1.22 T | 0.69 |
| Fine sand | GS_FS | percent | 9.58 | 14.9 | 7.08 | 7.1 | 10.6 | 5.78 | 11.6 | 6.01 | 7.4 | 17 | 14.1 T | 10 |
| Very fine sand | GS_VFS | percent | 17.7 | 13.5 | 3.07 | 19.4 | 18.8 | 23.5 | 17.1 | 17.7 | 23.5 | 45.5 | 49.1 T | 28.6 |
| Fines | GS_FINES | percent | 63.9 T | 20.4 T | 9.3 T | 74.7 T | 56.5 T | 71.2 T | 69.1 T | 74.3 T | 71.6 T | 34.3 T | 31.9 T | 59.8 T |
| Coarse silt | GS_CSILT | percent | 20.2 | 8.72 | 2.22 | 23.9 | 17.9 | 28.2 | 42.2 | 30.3 | 28.6 | 19.3 | 18.1 T | 27.5 |
| Medium silt | GS_MSILT | percent | 17.3 | 4.71 | 2.03 | 21.9 | 14.8 | 18.5 | 11.1 | 17.8 | 17 | 5.5 | 5.23 T | 12.1 |
| Fine silt | GS_FSILT | percent | 9.43 | 2.5 | 1.72 | 8.37 | 8.47 | 9.03 | 5.59 | 10.2 | 11.6 | 3.32 | 2.85 T | 8.03 |
| Very fine silt | GS_VFSILT | percent | 6.52 | 1.63 | 1.4 | 6.97 | 5.75 | 7.01 | 3.03 | 6.76 | 3.4 | 2.51 | 2.07 T | 4.42 |
| 8-9 Phi clay | GS_CCLAY | percent | 4.06 | 1.25 | 0.89 | 4.31 | 4.13 | 3.7 | 2.37 | 3.73 | 3.15 | 1.46 | 1.5 T | 3.34 |
| >9 Phi clay | GS_MFCLAY | percent | 6.36 | 1.6 | 1.04 | 9.23 | 5.46 | 4.75 | 4.82 | 5.47 | 7.82 | 2.16 | 2.17 T | 4.38 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G673 | LW3-G674 | LW3-G675 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G683 | LW3-G684-1 | LW3-G684-2 | LW3-G685 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 31900 | 16500 T | 10300 | 33800 | 29500 | 28200 | 28200 T | 29700 | 28300 | 29200 | 30400 T | 26500 |
| Antimony | 7440-36-0 | mg/kg | 0.87 J | 0.09 JT | 0.08 J | 0.95 J | 0.78 J | 0.28 J | 0.305 JT | 0.29 J | 0.11 J | 0.91 J | 0.55 JT | 0.1 J |
| Arsenic | 7440-38-2 | mg/kg | 3.26 | 8.1 JT | 1.94 | 3.92 | 3.18 | 3.47 | 3.22 T | 3.81 | 3.17 J | 3.93 | 3.63 T | 3.09 J |
| Cadmium | 7440-43-9 | mg/kg | 0.165 | 0.126 T | 0.06 | 0.252 | 0.157 | 0.165 | 0.178 T | 0.188 | 0.163 | 0.197 | 0.199 T | 0.167 |
| Chromium | 7440-47-3 | mg/kg | 27.3 J | 16.5 T | 9.81 | 30.1 J | 26.2 J | 27.1 | 27.5 JT | 28.3 | 26.6 | 29 | 26.8 T | 26.5 |
| Copper | 7440-50-8 | mg/kg | 32.5 | 22.2 T | 13.8 J | 52.8 | 32 | 37.7 | 34.2 T | 36.5 | 39.9 | 40.6 | 36.8 T | 36.6 |
| Lead | 7439-92-1 | mg/kg | 9.6 | 7.75 T | 3.67 J | 19 | 9.4 | 9.2 | 10 T | 11 | 9.5 | 14 J | 14 JT | 9.2 |
| Mercury | 7439-97-6 | mg/kg | 0.051 | 0.037 T | 0.018 | 0.061 | 0.048 | 0.054 | 0.0505 T | 0.051 | 0.106 | 0.08 | 0.075 T | 0.049 |
| Nickel | 7440-02-0 | mg/kg | 21.3 | 16.5 T | 13.6 J | 23.5 | 21.3 | 23.1 | 21.4 T | 21.3 | 23.6 | 25.2 | 23.3 T | 22.7 |
| Silver | 7440-22-4 | mg/kg | 0.29 | 0.089 T | 0.05 | 0.37 | 0.25 | 0.16 | 0.19 T | 0.19 | 0.153 | 0.18 | 0.185 T | 0.137 |
| Zinc | 7440-66-6 | mg/kg | 95.1 | 85.6 T | 58.3 | 115 | 89.3 | 96.9 | 124 T | 107 | 99.8 | 95.1 | 100 T | 92.9 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.5 J | 70 | 0.93 J | 20 | 1.5 J | 1.3 J | 1.8 J | 1.6 J | 0.9 J | 4.8 | 5.4 T | 1.1 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 2.4 J | 7.7 | 1.7 J | 35 | 2.6 | 1.9 J | 3 | 2.5 J | 1.2 J | 8.9 | 11 T | 1.9 J |
| Acenaphthene | 83-32-9 | ug/kg | 3.5 | 48 | 32 | 200 | 2 J | 1.3 J | 3 | 3.3 | 0.79 J | 10 | 11 T | 0.94 J |
| Acenaphthylene | 208-96-8 | ug/kg | 2.9 | 2 J | 0.63 J | 6.3 | 2.2 J | 2 J | 3.5 | 3 J | 0.99 J | 6.4 | 9.5 T | 1.7 J |
| Anthracene | 120-12-7 | ug/kg | 7.5 | 20 | 2.3 J | 27 | 4.6 | 3.3 | 7.4 | 7.2 | 1.7 J | 13 | 19 T | 2.1 J |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 20 | 31 J | 4.1 | 52 | 15 | 10 | 21 | 21 | 11 | 25 | 40 T | 7.6 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 28 | 26 | 3.4 | 55 | 17 | 13 | 26 | 25 | 12 | 26 | 46 T | 9.4 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 30 | 35 | 5.1 | 75 | 22 | 17 | 32 | 33 | 16 | 39 | 57 T | 13 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 20 | 19 | 3.3 | 42 | 14 | 11 | 20 | 20 | 9.5 | 24 | 36.5 T | 8.5 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 26 | 17 | 3.1 | 43 | 16 | 13 | 24 | 23 | 9.5 | 21 | 37 T | 9.6 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 11 | 12 | 1.6 J | 24 | 6.9 | 5.7 | 9.8 | 10 | 5.6 | 13 | 20 T | 4.3 |
| Chrysene | 218-01-9 | ug/kg | 27 | 33 | 5.4 | 67 | 21 | 16 | 30 | 37 | 15 | 36 | 60 T | 12 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 3.1 | 3.6 | 0.51 J | 7.8 | 2 J | 1.7 J | 3.8 | 3.3 | 1.8 J | 3.4 | 5.4 T | 1.3 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 1.8 J | 6.6 | 0.53 J | 17 | 1.1 U | 0.79 J | 2.1 J | 1.8 J | 12 | 4 | 5.4 T | 0.55 J |
| Fluoranthene | 206-44-0 | ug/kg | 45 | 82 J | 13 | 130 | 34 | 25 | 52 | 51 | 20 | 75 | 130 T | 21 |
| Fluorene | 86-73-7 | ug/kg | 3.4 | 14 | 2.9 | 25 | 2.6 | 1.7 J | 4.1 | 2.7 J | 1.1 J | 11 | 12 T | 1.9 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 25 | 17 | 2.7 | 42 | 15 | 12 | 20 | 22 | 9.3 | 18 | 34 T | 8.3 |
| Naphthalene | 91-20-3 | ug/kg | 7.9 | 16 | 3.7 | 82 | 8.5 | 7 | 10 | 8.2 | 4.4 | 37 | 45 T | 19 |
| Perylene | 198-55-0 | ug/kg | 39 | 14 | 4.3 | 130 | 58 | 19 | 31 | 18 | 7.7 | 21 | 31.5 T | 14 |
| Phenanthrene | 85-01-8 | ug/kg | 22 | 85 | 7.2 | 190 | 15 U | 13 | 29 | 24 | 8 | 54 | 74 T | 10 |
| Pyrene | 129-00-0 | ug/kg | 49 | 69 J | 12 | 120 | 37 | 26 | 54 | 52 | 21 | 72 | 120 T | 23 |
| High Molecular Weight PAH | HPAH | ug/kg | 260 T | 330 JT | 51 JT | 620 T | 190 JT | 140 JT | 270 T | 280 T | 120 JT | 330 T | 550 T | 110 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 50 JT | 190 JT | 50 JT | 570 T | 23 JT | 30 JT | 60 T | 51 JT | 18 JT | 140 T | 180 T | 38 JT |
| Total PAHs | 130498-29-2 | ug/kg | 310 JT | 520 JT | 100 JT | 1200 T | 210 JT | 170 JT | 330 T | 330 JT | 140 JT | 470 T | 730 T | 150 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 22 | 22 | 4.7 | 56 | 22 J | 22 J | 32 J | 27 J | 15 | 35 | 41 T | 16 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 2.1 J | 4.2 | 0.54 J | 15 | 2.7 | 1.7 J | 3.2 | 2.5 J | 0.73 J | 8 | 7.8 T | 1.5 J |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 24 | 52 | 6.5 | 70 | 23 | 17 | 32 | 25 | 12 | 44 | 59 T | 14 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 3.1 | 12 | 1.6 J | 19 | 2.9 | 2.5 J | 3.2 | 2.5 J | 1.2 J | 7 | 8.1 T | 1.7 J |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 16 | 20 | 3.1 | 68 | 12 | 13 | 15 | 16 | 3.6 | 23 | 33 T | 4.6 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 13 | 12 | 2.7 | 50 | 13 | 12 | 21 | 14 | 5.9 | 33 | 30 T | 8.5 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 5.9 | 6.1 | 0.78 J | 29 | 4.9 | 4.8 | 5.2 | 6.9 | 2.1 J | 10 | 12 T | 4 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 15 | 21 | 4.6 | 48 | 16 | 15 | 21 | 18 | 8.2 | 31 | 39 T | 13 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 6.1 | 7.3 | 1.8 J | 22 | 5.3 | 5.4 | 6.7 | 5.3 | 1.6 J | 10 | 15 T | 2.7 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 4 | 24 | 4.3 | 49 | 3.7 | 3.8 | 4.9 | 4.2 | 1.5 J | 15 | 16 T | 2.8 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 13 | 35 | 3.4 | 56 | 11 | 13 | 22 | 15 | 9.2 | 43 | 59 T | 13 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 12 | 10 | 2.6 | 43 | 11 | 12 | 17 | 16 | 5.7 | 30 | 25 T | 9.3 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 6.4 | 5.8 | 0.78 J | 32 | 5.5 | 5.5 | 7.6 | 6.7 | 1.8 J | 21 | 20 T | 4.5 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 10 | 10 | 2.7 | 52 | 10 | 9.6 | 16 | 12 | 2.8 | 26 | 24 T | 6.1 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 8.1 | 7.7 | 2 J | 43 | 9 | 7.9 | 8.8 | 7.7 | 2.7 J | 13 | 23 T | 5.5 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 4 | 15 | 1.7 J | 29 | 3.3 | 3.7 | 4.6 | 3.9 | 1.7 J | 8.4 | 11 T | 1.9 J |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 15 | 25 | 5 | 59 | 13 | 13 | 20 | 16 | 11 | 52 | 56 T | 9 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 6.6 | 2.5 | 0.25 U | 26 | 5.9 | 0.25 U | 10 | 0.25 U | 4.7 | 18 | 13 T | 4.8 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 5.8 | 11 | 1.6 J | 26 | 4.8 | 4.4 | 5.5 | 5 | 2 J | 12 | 13 T | 2.5 J |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 9.7 | 6.8 | 1.9 J | 53 | 10 | 9.7 | 14 | 9.4 | 2.4 J | 23 | 18 T | 6.9 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 36.6 JT | 5.37 | | 6.24 | 14.5 | | 12.6 U | 11.7 UT | |
| PCB002 | 2051-61-8 | pg/g | 11.3 | 6.31 | 5.03 UT | 32.5 T | 5 U | | 11.8 | 10.5 | | 26.3 | 20.7 T | |
| PCB003 | 2051-62-9 | pg/g | 5.01 | 5 U | 5.03 UT | 27.5 T | 5 U | | 6.69 | 5.71 | | 13.1 | 11.7 UT | |
| PCB004 & 010 | PCB004_010 | pg/g | 16.1 | 10 U | 10.1 UT | 93.6 T | 10 U | | 20.5 | 18.2 | | 27 | 23.5 UT | |
| PCB005 & 008 | PCB005_008 | pg/g | 35.2 | 18.1 | 10.1 UT | 291 T | 22 | | 47.1 | 37.6 | | 68 | 61.7 T | |
| PCB006 | 25569-80-6 | pg/g | 9.58 U | 10 U | 10.1 UT | 80.2 T | 14.6 | | 11.6 | 11.1 | | 25.2 U | 23.5 UT | |
| PCB007 & 009 | PCB007_009 | pg/g | 9.58 U | 10 U | 10.1 UT | 34.6 T | 10 U | | 9.89 U | 9.74 U | | 25.2 U | 23.5 UT | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G673 | LW3-G674 | LW3-G675 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G683 | LW3-G684-1 | LW3-G684-2 | LW3-G685 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 134 | 45.3 | 32.3 T | 274 T | 22.8 | | 168 | 134 | | 111 | 120 T | |
| PCB012 & 013 | PCB012_013 | pg/g | 9.58 U | 10 U | 10.1 UT | 25.6 T | 10 U | | 9.89 U | 9.74 U | | 25.2 U | 23.5 UT | |
| PCB014 | 34883-41-5 | pg/g | 9.58 U | 10 U | 10.1 UT | 9.87 UT | 10 U | | 9.89 U | 9.74 U | | 25.2 U | 23.5 UT | |
| PCB015 | 2050-68-2 | pg/g | 37.6 | 21.4 | 10.1 UT | 160 T | 13.1 | | 49.2 | 41.2 | | 60.4 | 69.7 T | |
| PCB016 & 032 | PCB016_032 | pg/g | 43.2 | 34.5 | 15.1 JT | 255 T | 17.8 | | 44.3 | 44.9 | | 81.7 | 67 T | |
| PCB017 | 37680-66-3 | pg/g | 32.1 | 19.8 | 9.99 T | 244 T | 11.5 | | 34.1 | 33.5 | | 56.3 | 48.2 T | |
| PCB018 | 37680-65-2 | pg/g | 61.5 | 32 | 20.8 JT | 344 T | 29.6 | | 64.6 | 61 | | 120 | 93.7 T | |
| PCB019 | 38444-73-4 | pg/g | 47.3 | 19.6 | 10.6 T | 52.3 T | 6.41 | | 27.8 | 25.8 | | 40.2 | 34.2 T | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 70.2 | 26.8 | 21.6 JT | 363 T | 20 | | 66 | 64.5 | | 135 | 111 T | |
| PCB022 | 38444-85-8 | pg/g | 44.3 | 17.8 | 11.5 JT | 164 T | 12.1 | | 42.6 | 40 | | 94.3 | 69.4 T | |
| PCB023 | 55720-44-0 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB024 & 027 | PCB024_027 | pg/g | 7.76 | 5 U | 5.03 UT | 29.3 T | 5 U | | 7.62 | 7.15 | | 12.6 U | 11.7 UT | |
| PCB025 | 55712-37-3 | pg/g | 16.1 | 5.76 | 5.35 T | 75.3 T | 8.98 | | 15.3 | 16.5 | | 25.4 | 22.1 T | |
| PCB026 | 38444-81-4 | pg/g | 25 | 7.14 | 7.49 T | 96.1 T | 15.3 | | 23.6 | 23.7 | | 43.7 | 36.6 T | |
| PCB028 | 7012-37-5 | pg/g | 163 | 66.6 | 32.5 T | 884 T | 43.9 | | 147 | 143 | | 318 | 254 T | |
| PCB029 | 15862-07-4 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB030 | 35693-92-6 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB031 | 16606-02-3 | pg/g | 114 | 44 | 27.8 JT | 470 T | 37.7 | | 111 | 105 | | 225 | 201 T | |
| PCB034 | 37680-68-5 | pg/g | 4.79 U | 5 U | 5.03 UT | 9.7 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB035 | 37680-69-6 | pg/g | 4.79 U | 5 U | 5.03 UT | 10.1 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB036 | 38444-87-0 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB037 | 38444-90-5 | pg/g | 54.4 | 22.3 | 13.4 T | 177 T | 11.5 | | 56.9 | 53.8 | | 92.4 | 86.6 T | |
| PCB038 | 53555-66-1 | pg/g | 4.79 U | 5 U | 5.03 UT | 15.9 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB039 | 38444-88-1 | pg/g | 4.79 U | 5 U | 5.03 UT | 6.96 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB040 | 38444-93-8 | pg/g | 23.5 | 10.9 | 21.4 JT | 77.8 T | 6.67 | | 25.8 | 25.9 | | 45.7 UJ | 44.5 T | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 151 | 54.4 | 62 JT | 617 T | 47.1 | | 162 | 150 | | 260 | 240 T | |
| PCB042 & 059 | PCB042_059 | pg/g | 49.2 | 29.3 | 20.7 JT | 174 T | 13.4 | | 50.1 | 50.9 | | 93.9 | 79.7 T | |
| PCB043 & 049 | PCB043_049 | pg/g | 167 | 129 | 95.2 JT | 858 T | 47.8 | | 246 | 167 | | 312 | 312 T | |
| PCB044 | 41464-39-5 | pg/g | 157 | 111 | 175 JT | 525 T | 47 | | 160 | 163 | | 317 | 336 T | |
| PCB045 | 70362-45-7 | pg/g | 15.9 | 12.3 | 12 T | 59.4 T | 5 U | | 16 | 17.1 | | 30.8 | 29.1 T | |
| PCB046 | 41464-47-5 | pg/g | 7.67 | 8.84 | 6.11 T | 64.2 T | 5 U | | 8.18 | 9.19 | | 20.1 | 13.6 T | |
| PCB047 | 2437-79-8 | pg/g | 84.4 | 98.5 | 37.3 JT | 441 T | 21.1 | | 103 | 96.4 | | 198 | 183 T | |
| PCB048 & 075 | PCB048_075 | pg/g | 29.2 | 18 | 19 JT | 102 T | 7.22 | | 27.3 | 27.4 | | 51.4 | 42.1 T | |
| PCB050 | 62796-65-0 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB051 | 68194-04-7 | pg/g | 21.9 | 32 | 9.66 T | 105 T | 5 U | | 25.3 | 29.6 | | 50.4 | 41.5 T | |
| PCB052 & 069 | PCB052_069 | pg/g | 207 | 167 | 306 JT | 816 T | 70.7 | | 322 | 208 | | 393 | 493 T | |
| PCB053 | 41464-41-9 | pg/g | 40 | 42.4 | 17.8 JT | 194 T | 10.3 | | 46.6 | 40.4 | | 71.2 | 65.9 T | |
| PCB054 | 15968-05-5 | pg/g | 8.51 | 5.85 | 5.03 UT | 9.21 T | 5 U | | 6.29 | 7.07 | | 12.6 U | 11.7 UT | |
| PCB055 | 74338-24-2 | pg/g | 4.79 U | 5 U | 5.3 T | 11.1 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB056 & 060 | PCB056_060 | pg/g | 101 | 44.8 | 43.6 JT | 232 T | 22.1 | | 110 | 99.8 | | 150 | 150 T | |
| PCB057 | 70424-67-8 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB058 | 41464-49-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 7.52 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB061 & 070 | PCB061_070 | pg/g | 236 | 112 | 177 JT | 718 T | 54.4 | | 249 | 234 | | 356 | 419 T | |
| PCB062 | 54230-22-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB063 | 74472-34-7 | pg/g | 7.96 | 5 U | 5.27 T | 22.4 T | 5 U | | 7.5 | 7.61 | | 12.6 U | 12 T | |
| PCB065 | 33284-54-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB066 & 076 | PCB066_076 | pg/g | 197 | 93 | 76.6 JT | 664 T | 42.2 | | 193 | 191 | | 284 | 293 T | |
| PCB067 | 73575-53-8 | pg/g | 5.95 | 5 U | 5.03 UT | 15.8 T | 5 U | | 6.78 | 6.39 | | 12.6 U | 11.7 UT | |
| PCB068 | 73575-52-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 20.5 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB073 | 74338-23-1 | pg/g | 4.79 U | 5 U | 9.01 T | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB074 | 32690-93-0 | pg/g | 87.7 | 38.4 | 44.6 JT | 237 T | 21.4 | | 87.6 | 86.9 | | 137 | 145 T | |
| PCB077 | 32598-13-3 | pg/g | 22.8 | 10.5 | 17.9 JT | 56.9 T | 4.86 U | | 23.9 | 21.4 | | 32.2 | 34.4 T | |
| PCB078 | 70362-49-1 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB079 | 41464-48-6 | pg/g | 4.79 U | 5 U | 8.14 T | 26.3 T | 5 U | | 7 | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB080 | 33284-52-5 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB081 | 70362-50-4 | pg/g | 0.649 J | 3.55 U | 5.16 T | 1.92 JT | 0.861 U | | 1.57 U | 0.713 J | | 3.18 U | 2.47 UT | |
| PCB082 | 52663-62-4 | pg/g | 34.7 | 22.5 | 53 JT | 104 T | 8.96 | | 33.4 | 32.2 | | 52.8 | 75.4 T | |
| PCB083 | 60145-20-2 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB084 & 092 | PCB084_092 | pg/g | 141 | 93.5 | 187 JT | 582 T | 40.3 | | 200 | 142 | | 215 | 295 T | |
| PCB085 & 116 | PCB085_116 | pg/g | 58 | 28 | 55.6 JT | 162 T | 13.5 | | 63.3 | 56 | | 69.2 | 93.3 T | |
| PCB086 | 55312-69-1 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 111 | 58 | 154 JT | 323 T | 27.8 | | 127 | 110 | | 135 | 224 T | |
| PCB088 & 091 | PCB088_091 | pg/g | 65.3 | 40.3 | 62.7 JT | 290 T | 16.5 | | 114 | 68.8 | | 96.5 | 113 T | |
| PCB089 | 73575-57-2 | pg/g | 4.79 U | 5 U | 6.58 T | 9.49 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB090 & 101 | PCB090_101 | pg/g | 385 | 239 | 444 JT | 1480 T | 102 | | 554 | 388 | | 553 | 773 T | |
| PCB093 | 73575-56-1 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G673 | LW3-G674 | LW3-G675 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G683 | LW3-G684-1 | LW3-G684-2 | LW3-G685 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 4.79 U | 5 U | 5.03 UT | 14 T | 5 U | | 5.46 | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 273 | 180 | 374 JT | 1180 T | 90.7 | | 550 | 282 | | 437 | 552 T | |
| PCB096 | 73575-54-9 | pg/g | 4.79 U | 5 U | 5.33 T | 18.4 T | 5 U | | 11.6 | 6.73 | | 12.6 U | 11.7 UT | |
| PCB097 | 41464-51-1 | pg/g | 94.9 | 52.7 | 121 JT | 341 T | 23.6 | | 99.9 | 95.6 | | 120 | 185 T | |
| PCB099 | 38380-01-7 | pg/g | 178 | 116 | 188 JT | 727 T | 45.8 | | 255 | 180 | | 267 | 357 T | |
| PCB100 | 39485-83-1 | pg/g | 9.78 | 11.8 | 6.33 T | 45 T | 5 U | | 25.9 | 11.4 | | 19.2 | 23.3 T | |
| PCB103 | 60145-21-3 | pg/g | 11.4 | 10.7 | 7.29 T | 60.9 T | 5 U | | 60.2 | 15 | | 22 | 23.8 T | |
| PCB104 | 56558-16-8 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB105 | 32598-14-4 | pg/g | 104 | 54.2 | 139 JT | 257 T | 21.1 | | 115 | 101 | | 138 | 208 T | |
| PCB106 & 118 | PCB106_118 | pg/g | 315 | 160 | 331 JT | 1020 T | 65.8 | | 350 | 305 | | 401 | 606 T | |
| PCB107 & 109 | PCB107_109 | pg/g | 26.5 | 14.5 | 21 JT | 102 T | 6 | | 30.6 | 24.4 | | 37.7 | 45.8 T | |
| PCB108 & 112 | PCB108_112 | pg/g | 16.6 | 10.1 | 29.4 JT | 60.9 T | 5 U | | 18.1 | 16.5 | | 21.9 | 30 T | |
| PCB110 | 38380-03-9 | pg/g | 442 | 240 | 481 JT | 1560 T | 121 | | 542 | 439 | | 586 | 814 T | |
| PCB111 & 115 | PCB111_115 | pg/g | 6.65 | 5 U | 12 T | 13.7 T | 5 U | | 6.34 | 6.26 | | 12.6 U | 13.9 T | |
| PCB113 | 68194-10-5 | pg/g | 4.79 U | 5 U | 5.03 UT | 10.2 T | 5 U | | 10.3 | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB114 | 74472-37-0 | pg/g | 5.98 | 3.17 J | 13.8 JT | 16.5 T | 1.63 U | | 6.73 | 5.51 | | 6.5 J | 11.4 JT | |
| PCB119 | 56558-17-9 | pg/g | 16.5 | 11.1 | 8.95 T | 78.2 T | 5 U | | 36.5 | 17 | | 25.7 | 29.5 T | |
| PCB120 | 68194-12-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 13.2 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB121 | 56558-18-0 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB122 | 76842-07-4 | pg/g | 4.79 U | 5 U | 7.51 T | 11 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB123 | 65510-44-3 | pg/g | 5.48 | 2.71 U | 7.53 T | 13.5 T | 1.71 U | | 6.14 | 5.86 | | 8.19 J | 9.84 JT | |
| PCB124 | 70424-70-3 | pg/g | 11.8 | 8.4 | 26.9 JT | 41.3 T | 5 U | | 11.4 | 11.8 | | 15 | 23.3 T | |
| PCB126 | 57465-28-8 | pg/g | 2.41 J | 2.17 J | 4.07 JT | 7.34 T | 1.71 U | | 4.3 U | 2.48 J | | 4.95 U | 4.35 JT | |
| PCB127 | 39635-33-1 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB128 & 162 | PCB128_162 | pg/g | 63.5 | 34.7 | 55.7 JT | 212 T | 12.1 | | 70.7 | 59.4 | | 85.5 | 115 T | |
| PCB129 | 55215-18-4 | pg/g | 15.4 | 9.15 | 29.5 JT | 52.8 T | 5 U | | 18.8 | 16.2 | | 19.7 | 31.3 T | |
| PCB130 | 52663-66-8 | pg/g | 39 | 16.4 | 25.5 JT | 120 T | 6.36 UJ | | 43.6 | 39.5 | | 49.4 | 67.5 T | |
| PCB131 | 61798-70-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB132 & 161 | PCB132_161 | pg/g | 124 | 77.9 | 108 JT | 474 T | 30.5 | | 168 | 126 | | 207 | 228 T | |
| PCB133 & 142 | PCB133_142 | pg/g | 17.5 | 12.9 | 14.3 JT | 70.4 T | 5 U | | 30.4 | 17.3 | | 28.7 | 36.8 T | |
| PCB134 & 143 | PCB134_143 | pg/g | 21.3 | 16.5 | 21.8 JT | 75.9 T | 5.96 | | 32.6 | 23.5 | | 38.1 | 43.7 T | |
| PCB135 | 52744-13-5 | pg/g | 85.5 | 56.3 | 56.4 JT | 333 T | 20.4 | | 150 | 84 | | 149 | 157 T | |
| PCB136 | 38411-22-2 | pg/g | 74.2 | 5 U | 57 JT | 315 T | 20.4 | | 137 | 79.2 | | 142 | 139 T | |
| PCB137 | 35694-06-5 | pg/g | 17.7 | 9.57 | 34.3 JT | 55 T | 5 U | | 19.7 | 18.1 | | 25.2 | 51.9 T | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 494 | 288 | 332 JT | 1710 T | 103 | | 608 | 497 | | 786 | 890 T | |
| PCB139 & 149 | PCB139_149 | pg/g | 506 | 263 | 278 JT | 1940 T | 119 | | 741 | 527 | | 724 | 762 T | |
| PCB140 | 59291-64-4 | pg/g | 6.9 | 5 U | 5.2 T | 27.9 T | 5 U | | 16.7 | 6.36 | | 12.6 U | 12.5 UT | |
| PCB141 | 52712-04-6 | pg/g | 84.4 | 67 | 70.9 JT | 300 T | 20.1 | | 106 | 90.7 | | 182 | 193 T | |
| PCB144 | 68194-14-9 | pg/g | 23.6 | 12.6 | 17.3 JT | 80.5 T | 6.28 | | 30.9 | 26 | | 41.7 | 38 T | |
| PCB145 | 74472-40-5 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB146 & 165 | PCB146_165 | pg/g | 105 | 64.3 | 60.7 JT | 414 T | 21 | | 170 | 98.2 | | 165 | 186 T | |
| PCB147 | 68194-13-8 | pg/g | 19.6 | 12.7 | 10.8 T | 74.3 T | 5 U | | 28.8 | 19.2 | | 29.1 | 33.4 T | |
| PCB148 | 74472-41-6 | pg/g | 4.79 U | 5 U | 5.03 UT | 16.2 T | 5 U | | 9.09 | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB150 | 68194-08-1 | pg/g | 4.79 U | 5 U | 5.03 UT | 18.7 T | 5 U | | 8.79 | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB151 | 52663-63-5 | pg/g | 147 | 97.6 | 84.4 JT | 533 T | 39.3 | | 238 | 152 | | 260 | 266 T | |
| PCB152 | 68194-09-2 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB153 | 35065-27-1 | pg/g | 515 | 362 | 357 JT | 1960 T | 111 | | 701 | 532 | | 955 | 1020 T | |
| PCB154 | 60145-22-4 | pg/g | 19.8 | 12.7 | 12.6 T | 104 T | 5 U | | 46.8 | 16.7 | | 36.5 | 38.7 T | |
| PCB155 | 33979-03-2 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB156 | 38380-08-4 | pg/g | 38.6 | 22.3 | 34 JT | 135 T | 6.9 | | 45.1 | 38.8 | | 63.2 | 78.2 T | |
| PCB157 | 69782-90-7 | pg/g | 8.6 | 4.63 J | 7.5 JT | 24.2 T | 1.6 J | | 8.82 | 8.82 | | 10.7 J | 16.5 JT | |
| PCB158 & 160 | PCB158_160 | pg/g | 46.6 | 28 | 39.5 JT | 145 T | 10.4 | | 53.3 | 48.2 | | 75.6 | 90 T | |
| PCB159 | 39635-35-3 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB166 | 41411-63-6 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB167 | 52663-72-6 | pg/g | 17.4 | 9.75 | 13.8 JT | 57 T | 3.94 J | | 20.9 | 16.9 | | 28.5 | 34.8 T | |
| PCB168 | 59291-65-5 | pg/g | 4.79 U | 5 U | 5.03 UT | 5.21 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB169 | 32774-16-6 | pg/g | 0.883 U | 0.8 U | 0.586 UT | 0.944 UT | 1.07 U | | 0.805 J | 0.783 U | | 2.54 U | 1.54 UT | |
| PCB170 | 35065-30-6 | pg/g | 146 | 104 | 70 JT | 542 T | 30.3 | | 172 | 147 | | 289 | 275 T | |
| PCB171 | 52663-71-5 | pg/g | 36.9 | 25.6 | 18.8 JT | 158 T | 7.48 | | 44.8 | 38.8 | | 71.2 | 67.9 T | |
| PCB172 | 52663-74-8 | pg/g | 26 | 17.7 | 12 T | 99.5 T | 6.3 | | 32.6 | 25.2 | | 54.1 | 42.8 T | |
| PCB173 | 68194-16-1 | pg/g | 4.79 U | 5 U | 5.03 UT | 13.3 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB174 | 38411-25-5 | pg/g | 177 | 117 | 78.7 JT | 686 T | 34.8 | | 212 | 195 | | 327 | 311 T | |
| PCB175 | 40186-70-7 | pg/g | 7.88 | 5.87 | 5.03 UT | 29.7 T | 5 U | | 11.2 | 9.62 | | 14.5 | 19.2 T | |
| PCB176 | 52663-65-7 | pg/g | 25.5 | 16.8 | 11.9 T | 94.1 T | 5.28 | | 32.4 | 27.3 | | 46.2 | 43.8 T | |
| PCB177 | 52663-70-4 | pg/g | 103 | 76.1 | 51.7 T | 402 T | 17.6 | | 130 | 104 | | 208 | 197 T | |
| PCB178 | 52663-67-9 | pg/g | 45.9 | 30.1 | 20 T | 164 T | 8.8 | | 65.3 | 45.4 | | 84.4 | 80.6 T | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G673 | LW3-G674 | LW3-G675 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G683 | LW3-G684-1 | LW3-G684-2 | LW3-G685 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 91.2 | 66.1 | 44.3 T | 342 T | 17.8 | | 123 | 94.4 | | 177 | 169 T | |
| PCB180 | 35065-29-3 | pg/g | 372 | 254 | 166 T | 1420 T | 74.8 | | 450 | 394 | | 733 | 664 T | |
| PCB181 | 74472-47-2 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB182 & 187 | PCB182_187 | pg/g | 275 | 177 | 110 T | 971 T | 51.8 | | 357 | 278 | | 492 | 458 T | |
| PCB183 | 52663-69-1 | pg/g | 99.2 | 74.7 | 49.7 JT | 376 T | 19.5 | | 125 | 108 | | 214 | 190 T | |
| PCB184 | 74472-48-3 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB185 | 52712-05-7 | pg/g | 18.1 | 13 | 8.63 T | 70.4 T | 5 U | | 20.5 | 19.1 | | 37.5 | 33.5 T | |
| PCB186 | 74472-49-4 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB188 | 74487-85-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB189 | 39635-31-9 | pg/g | 5.64 | 4.06 J | 2.45 JT | 20.8 T | 0.793 U | | 6.71 | 6.12 | | 12.7 | 10.2 JT | |
| PCB190 | 41411-64-7 | pg/g | 31.9 | 22.4 | 14.2 T | 113 T | 6.53 | | 36.6 | 31.6 | | 61.8 | 53.9 T | |
| PCB191 | 74472-50-7 | pg/g | 6.22 | 5 U | 5.03 UT | 23.3 T | 5 U | | 7.39 | 6.55 | | 13.9 | 11.7 UT | |
| PCB192 | 74472-51-8 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB193 | 69782-91-8 | pg/g | 20.1 | 14 | 8.85 T | 77.2 T | 5 U | | 25 | 20.1 | | 39.6 | 35.3 T | |
| PCB194 | 35694-08-7 | pg/g | 90.3 | 61.5 | 35.1 T | 343 T | 19.5 | | 105 | 98.3 | | 157 | 143 T | |
| PCB195 | 52663-78-2 | pg/g | 36.4 | 24.9 | 16.3 T | 133 T | 6.23 UJ | | 42.3 | 38.9 | | 69.6 | 61.6 T | |
| PCB196 & 203 | PCB196_203 | pg/g | 135 | 68.3 | 44.6 T | 426 T | 23.2 | | 158 | 149 | | 195 | 175 T | |
| PCB197 | 33091-17-7 | pg/g | 4.79 U | 5 U | 5.03 UT | 14.5 T | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB198 | 68194-17-2 | pg/g | 5.9 UJ | 5 U | 5.03 UT | 20.1 T | 5 U | | 8.28 | 8.13 | | 12.6 U | 11.7 UT | |
| PCB199 | 52663-75-9 | pg/g | 132 | 69.4 | 44.4 T | 394 T | 25 | | 157 | 152 | | 201 | 179 T | |
| PCB200 | 52663-73-7 | pg/g | 16 | 8.73 | 6 T | 54.3 T | 5 U | | 19.7 | 19.6 | | 25.1 | 20.4 T | |
| PCB201 | 40186-71-8 | pg/g | 14.8 | 9.69 | 5.72 T | 49.1 T | 5 U | | 17.3 | 14.8 | | 26.7 | 19.6 T | |
| PCB202 | 2136-99-4 | pg/g | 23.3 | 13 | 7.48 T | 74.9 T | 5 U | | 27.4 | 25.4 | | 33.8 | 28.2 T | |
| PCB204 | 74472-52-9 | pg/g | 4.79 U | 5 U | 5.03 UT | 4.93 UT | 5 U | | 4.95 U | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB205 | 74472-53-0 | pg/g | 4.82 | 5 U | 5.03 UT | 16.5 T | 5 U | | 5.71 | 4.87 U | | 12.6 U | 11.7 UT | |
| PCB206 | 40186-72-9 | pg/g | 65.7 | 26.9 | 13.1 T | 164 T | 8.01 | | 57.5 | 67.1 | | 54.8 | 58.1 T | |
| PCB207 | 52663-79-3 | pg/g | 7.13 | 5 U | 5.03 UT | 21.1 T | 5 U | | 7.26 | 9.13 | | 12.6 U | 11.7 UT | |
| PCB208 | 52663-77-1 | pg/g | 20.2 | 6.81 | 5.03 UT | 43.5 T | 5 U | | 17.4 | 20.6 | | 16 | 15.3 T | |
| PCB209 | 2051-24-3 | pg/g | 62.9 | 22.9 | 11.9 T | 116 T | 8.34 | | 72.7 | 51.4 | | 38.7 | 40.9 T | |
| Total PCB Congeners | 1336-36-3 | pg/g | 9440 JT | 5570 JT | 6710 JT | 35600 JT | 2180 JT | | 12100 JT | 9600 JT | | 15300 JT | 16600 JT | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 0.258 JT | 0.226 JT | 0.427 JT | 0.787 JT | 0.00298 JT | | 0.0433 JT | 0.265 JT | | 0.0233 JT | 0.468 JT | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 16.3 T | 6.31 T | 5.03 UT | 96.6 JT | 5.37 T | | 24.7 T | 30.7 T | | 39.4 T | 20.7 T | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 223 T | 84.8 T | 32.3 T | 959 T | 72.5 T | | 296 T | 242 T | | 266 T | 251 T | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 679 T | 296 T | 176 JT | 3200 T | 215 T | | 641 T | 619 T | | 1230 T | 1020 T | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 1620 JT | 1020 T | 1170 JT | 6060 JT | 411 T | | 1880 T | 1640 JT | | 2760 T | 2930 T | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 2320 JT | 1360 JT | 2750 JT | 8540 T | 583 T | | 3230 T | 2320 JT | | 3230 JT | 4510 JT | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 2490 T | 1480 JT | 1730 JT | 9250 T | 532 JT | | 3500 JT | 2540 T | | 4100 JT | 4520 JT | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 1490 T | 1020 JT | 667 JT | 5600 T | 281 T | | 1850 T | 1550 T | | 2880 T | 2650 JT | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 453 T | 256 T | 160 T | 1530 T | 67.7 T | | 541 T | 506 T | | 708 T | 627 T | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 93 T | 33.7 T | 13.1 T | 229 T | 8.01 T | | 82.2 T | 96.8 T | | 70.8 T | 73.4 T | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.93 J | 4.8 | 0.27 | 1.9 NJ | 0.92 J | 0.94 U | 1.2 NJ | 0.85 J | 0.73 U | 0.88 J | 1.1 JT | 0.24 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.22 U | 0.27 U | 0.047 U | 0.54 U | 0.046 U | 0.22 U | 0.18 U | 0.054 U | 0.21 U | 0.046 U | 0.2 UT | 0.11 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.91 J | 0.96 NJ | 0.15 J | 1.7 | 0.55 | 0.27 U | 0.64 | 0.87 U | 0.33 U | 0.9 U | 0.62 JT | 0.28 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 2.7 | 4.2 | 0.32 | 0.84 | 2 | 0.8 | 1.7 | 2.4 | 0.93 | 2.2 | 2.2 T | 0.51 |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.9 | 0.95 NJ | 0.23 | 3.1 | 1.8 | 1.4 | 1.6 | 1.8 | 1.7 J | 1.8 | 1.5 JT | 1 |
| 4,4'-DDT | 50-29-3 | ug/kg | 1.3 U | 0.31 U | 0.24 U | 2.5 | 17 | 0.51 U | 1.4 NJ | 7.3 | 0.43 U | 1.6 | 5.1 JT | 1.3 |
| Aldrin | 309-00-2 | ug/kg | 0.17 U | 0.12 U | 0.12 U | 0.13 U | 0.32 J | 0.24 U | 0.16 NJ | 0.39 U | 0.42 U | 0.46 J | 0.22 UT | 0.13 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.075 J | 0.055 J | 0.037 U | 0.24 J | 0.059 NJ | 0.26 J | 0.078 NJ | 0.091 J | 0.19 J | 0.15 U | 0.08 JT | 0.13 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.099 U | 0.097 U | 0.097 U | 0.11 U | 0.097 U | 0.11 U | 0.099 U | 0.12 U | 0.11 U | 0.097 U | 0.097 UT | 0.21 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.25 U | 0.031 U | 0.031 U | 0.21 U | 0.031 U | 0.034 U | 0.032 U | 0.036 U | 0.033 U | 0.031 U | 2.2 JT | 0.08 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.15 U | 0.14 U | 0.14 U | 0.45 U | 0.14 U | 0.15 U | 0.15 U | 0.17 U | 0.15 U | 0.14 U | 0.28 JT | 0.15 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.032 U | 0.031 U | 0.031 U | 0.033 U | 0.081 U | 0.089 U | 0.073 U | 0.049 J | 0.091 J | 0.031 U | 0.048 UT | 0.079 J |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.42 U | 0.32 U | 0.13 U | 1.4 U | 0.31 U | 0.36 U | 0.37 U | 0.38 U | 0.41 U | 3.9 NJ | 0.48 UT | 0.39 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.12 U | 0.11 U | 0.11 U | 0.12 U | 0.11 U | 0.12 U | 0.12 U | 0.13 U | 0.12 U | 0.11 U | 0.11 UT | 0.12 U |
| Dieldrin | 60-57-1 | ug/kg | 0.21 U | 0.036 U | 0.038 J | 0.21 U | 0.14 U | 0.35 | 0.29 | 0.23 U | 0.032 U | 0.1 NJ | 0.15 NJT | 0.032 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.21 U | 0.2 U | 0.058 U | 0.061 U | 0.2 U | 0.22 U | 0.21 U | 0.24 U | 0.21 U | 0.2 U | 0.058 UT | 0.061 U |
| Endrin | 72-20-8 | ug/kg | 0.073 U | 0.071 U | 0.071 U | 0.45 U | 0.071 U | 0.13 U | 0.21 U | 0.24 U | 0.075 U | 0.071 U | 0.071 UT | 0.074 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.043 U | 0.042 UJ | 0.042 U | 0.4 U | 0.042 U | 0.045 U | 0.21 U | 0.049 U | 0.045 UJ | 0.042 U | 0.2 UT | 0.044 UJ |
| Endrin ketone | 53494-70-5 | ug/kg | 0.22 U | 0.2 U | 0.029 U | 0.33 U | 0.19 U | 0.28 U | 0.2 U | 0.25 U | 0.16 J | 0.49 J | 10 JT | 0.19 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.21 U | 0.44 J | 0.062 U | 0.21 U | 0.2 U | 0.22 U | 0.21 U | 0.24 U | 0.066 U | 0.29 U | 0.27 UT | 0.065 U |
| Heptachlor | 76-44-8 | ug/kg | 0.078 U | 0.076 U | 0.076 U | 0.49 J | 0.076 U | 0.082 U | 0.078 U | 0.088 U | 0.08 U | 0.2 U | 0.2 UT | 0.079 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.21 U | 0.068 U | 0.068 U | 0.31 U | 0.2 U | 0.22 U | 0.21 U | 0.24 U | 0.21 U | 0.068 U | 1.9 JT | 0.21 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.42 U | 0.28 U | 0.075 U | 0.33 U | 0.55 U | 0.34 U | 0.56 U | 0.48 U | 0.47 U | 0.45 U | 0.2 UT | 0.38 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G673 | LW3-G674 | LW3-G675 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G683 | LW3-G684-1 | LW3-G684-2 | LW3-G685 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.13 U | 0.12 U | 0.12 U | 0.13 U | 0.12 U | 0.13 U | 0.13 U | 0.14 U | 0.13 U | 0.12 U | 0.12 UT | 0.13 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.21 U | 0.061 U | 0.061 U | 0.12 U | 0.2 U | 0.59 U | 0.21 U | 0.29 U | 0.25 U | 0.061 U | 0.061 UT | 0.21 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.17 JT | 0.41 UT | 0.061 JT | 0.11 JT | 0.47 JT | 0.57 JT | 0.47 JT | 0.63 JT | 0.44 JT | 3.9 JT | 0.14 JT | 0.35 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.075 JT | 0.055 JT | 0.058 UT | 0.24 JT | 0.059 JT | 0.26 JT | 0.078 JT | 0.091 JT | 0.19 JT | 0.2 UT | 2.3 JT | 0.13 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 3.6 JT | 9 T | 0.59 T | 2.7 JT | 2.9 JT | 0.8 T | 2.9 JT | 3.3 JT | 0.93 T | 3.1 JT | 3.3 JT | 0.51 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 6.4 JT | 11 JT | 0.97 JT | 10 JT | 22 JT | 2.2 T | 6.5 JT | 12 JT | 2.6 JT | 6.5 JT | 11 JT | 2.8 T |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.9 T | 0.95 JT | 0.23 T | 3.1 T | 1.8 T | 1.4 T | 1.6 T | 1.8 T | 1.7 JT | 1.8 T | 1.5 JT | 1 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.91 JT | 0.96 JT | 0.15 JT | 4.2 T | 18 T | 0.51 UT | 2 JT | 7.3 T | 0.43 UT | 1.6 T | 5.7 JT | 1.3 T |
| Toxaphene | 8001-35-2 | ug/kg | 16 U | 16 U | 3.4 U | 29 U | 16 U | 18 U | 24 U | 16 U | 22 U | 32 U | 20 UT | 16 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.32 U | 0.41 U | 0.061 J | 0.27 U | 0.3 | 0.41 J | 0.3 J | 0.32 | 0.35 J | 0.027 U | 0.31 UT | 0.27 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.17 J | 0.2 U | 0.034 U | 0.11 J | 0.17 J | 0.16 J | 0.17 J | 0.26 J | 0.11 U | 0.034 U | 0.14 JT | 0.086 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 76 J | 27 J | 8.3 U | 140 J | 55 J | 55 J | 69.2 JT | 66.7 JT | 40 J | 50 J | 50.5 JT | 50 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 44 J | 21 J | 6.4 U | 120 J | 41 J | 31 J | 48 JT | 43 JT | 32 J | 29 J | 28 JT | 39 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 400 J | 130 J | 51 J | 450 J | 280 J | 290 J | 390 JT | 313 JT | 300 J | 270 J | 265 JT | 340 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 150 J | 61 J | 26 J | 300 J | 150 J | 120 J | 180 JT | 150 JT | 130 J | 110 J | 95 JT | 150 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 476 JA | 157 JA | 51 JA | 590 JA | 335 JA | 345 JA | 459 JA | 380 JA | 340 JA | 320 JA | 316 JA | 390 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 194 JA | 82 JA | 26 JA | 420 JA | 191 JA | 151 JA | 228 JA | 193 JA | 162 JA | 139 JA | 123 JA | 189 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.42 U | 0.88 U | 0.29 U | 0.43 U | 0.39 U | 11 U | 0.42 U | 0.49 U | 1.1 U | 0.39 U | 0.38 UT | 0.44 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.34 U | 0.27 U | 0.24 U | 0.35 U | 0.32 U | 0.36 U | 0.34 U | 0.4 U | 0.36 U | 0.32 U | 0.31 UT | 0.35 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.1 U | 0.86 U | 0.75 U | 1.2 U | 1.1 U | 1.2 U | 1.1 U | 1.3 U | 1.2 U | 1.1 U | 0.99 UT | 1.2 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.22 UJ | 0.38 U | 0.15 U | 0.23 UJ | 0.21 UJ | 0.23 UJ | 0.22 UJ | 0.26 UJ | 0.23 U | 0.21 U | 0.2 UT | 0.23 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 5.1 U | 1 U | 1 U | 1.1 U | 1 U | 1.1 U | 5.1 U | 1.2 U | 1.1 U | 2 U | 2 UT | 1.1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 28 UJ | 5.5 U | R | 5.7 UJ | 5.5 UJ | R | R | R | 5.9 U | 11 U | 11 UT | 5.7 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 87 U | 17 U | 17 U | 18 U | 17 U | 19 U | 87 U | 20 U | 18 U | 34 U | 34 UT | 18 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 11 U | 2 U | 2 U | 2.1 U | 2 U | 2.2 U | 11 U | 2.4 U | 2.2 U | 4 U | 4 UT | 2.1 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 7.7 U | 1.5 U | 1.5 U | 1.6 U | 1.5 U | 1.7 U | 7.7 U | 1.8 U | 1.6 U | 3 U | 3 UT | 1.6 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 7.7 U | 1.5 U | 1.5 U | 1.6 U | 1.5 U | 1.7 U | 7.7 U | 1.8 U | 1.6 U | 3 U | 3 UT | 1.6 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 7.2 U | 1.4 U | 1.4 U | 1.5 U | 1.4 U | 1.5 U | 7.2 U | 1.7 U | 1.5 U | 2.8 U | 2.8 UT | 1.5 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 7.2 U | 1.4 U | 1.4 U | 1.5 U | 1.4 U | 1.5 U | 7.2 U | 1.7 U | 1.5 U | 2.8 U | 2.8 UT | 1.5 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 7.7 U | 2.6 J | 1.5 U | 5.9 J | 5.7 J | 6.4 J | 9.7 J | 9.7 J | 1.6 U | 20 J | 17 JT | 4.4 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 92 U | 18 U | 18 U | 19 U | 18 U | 20 U | 92 U | 21 U | 20 U | 36 U | 36 UT | 19 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.32 U | 0.25 U | 0.22 U | 0.33 U | 0.3 U | 0.34 U | 0.32 U | 0.37 U | 0.34 U | 1.2 J | 0.29 UT | 3.2 U |
| Phenol | 108-95-2 | ug/kg | 11 U | 35 | 7.4 U | 5.5 J | 4.2 J | 5.8 J | 11 U | 6 J | 31 J | 9.3 J | 8.8 JT | 40 |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 120 | 34 | 17 J | 300 | 92 | 170 | 190 | 140 | 73 | 89 | 120 T | 79 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 17 U | 3.6 J | 3.2 U | 3.4 U | 3.2 U | 3.5 U | 24 J | 3.8 U | 3.4 U | 6.4 U | 6.4 UT | 3.4 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 41 U | 7.9 U | 10 | 11 | 14 | 19 | 41 U | 18 | 13 | 23 | 24 JT | 16 |
| Diethyl phthalate | 84-66-2 | ug/kg | 6.7 U | 2.3 J | 2 J | 1.4 U | 2.8 J | 3.4 J | 7.8 J | 3.8 J | 2.3 J | 7 J | 4.9 JT | 2.9 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 5.1 U | 1 U | 1 U | 1.1 U | 1.5 J | 2.1 J | 5.1 U | 1.8 J | 1.1 U | 2 U | 2 UT | 1.9 J |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 8.7 U | 1.7 U | 1.7 U | 1.8 U | 1.7 U | 1.9 U | 8.7 U | 2 U | 1.8 U | 3.4 U | 3.4 UT | 1.8 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 14 U | 2.6 U | 2.6 U | 2.7 U | 2.6 U | 2.8 U | 14 U | 3.1 U | 2.8 U | 5.2 U | 5.2 UT | 2.7 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 15 U | 2.9 U | 2.9 U | 3.1 U | 2.9 U | 3.2 U | 15 U | 3.4 U | 3.1 U | 5.8 U | 5.8 UT | 3 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 16 U | 3 U | 3 U | 3.2 U | 3 U | 3.3 U | 16 U | 3.5 U | 3.2 U | 6 U | 6 UT | 3.2 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 15 U | 2.9 U | 2.9 U | 3.1 U | 2.9 U | 3.2 U | 15 U | 3.4 U | 3.1 U | 5.8 U | 5.8 UT | 3 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 7.7 U | 1.5 U | 1.5 U | 1.6 U | 1.5 U | 1.7 U | 7.7 U | 1.8 U | 1.6 U | 3 U | 3 UT | 1.6 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 11 U | 2 U | 2 U | 2.1 U | 2 U | 2.2 U | 11 U | 2.4 U | 2.2 U | 4 U | 4 UT | 2.1 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 8.2 U | 1.6 U | 1.6 U | 1.7 U | 1.6 U | 1.8 U | 8.2 U | 1.9 U | 1.7 U | 3.2 U | 3.2 UT | 1.7 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 17 U | 3.2 U | 3.2 U | 3.4 U | 3.2 U | 3.5 U | 17 U | 3.8 U | 3.4 U | 6.4 U | 6.4 UT | 3.4 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 19 U | R | 3.7 U | 3.9 U | 3.7 U | 4 U | R | 4.3 U | 4 U | 7.4 U | 7.4 UT | 3.9 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 13 U | 2.5 U | 2.5 U | 2.6 U | 2.5 U | 2.7 U | 13 U | 3 U | 2.7 U | 5 U | 5 UT | 2.6 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 8.2 U | 1.6 U | 1.6 U | 1.7 U | 1.6 U | 1.8 U | 8.2 U | 1.9 U | 1.7 U | 3.2 U | 3.2 UT | 1.7 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 9.7 U | 1.9 U | 1.9 U | 2 U | 1.9 U | 2.1 U | 9.7 U | 2.3 U | 2.1 U | 3.8 U | 3.8 UT | 2 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 7.2 U | 1.4 U | 1.4 U | 1.5 U | 1.4 U | 1.5 U | 7.2 U | 1.7 U | 1.5 U | 2.8 U | 2.8 UT | 1.5 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 9.2 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 2 U | 9.2 U | 2.1 U | 2 U | 3.6 U | 3.6 UT | 1.9 U |
| Aniline | 62-53-3 | ug/kg | 19 J | R | 1.5 U | 1.6 U | 1.5 U | 1.7 U | R | 1.8 U | 1.6 U | 3 U | 3 UT | 1.6 U |
| Azobenzene | 103-33-3 | ug/kg | 5.6 U | 1.1 U | 1.1 U | 1.2 U | 1.1 U | 1.2 U | 5.7 U | 1.3 U | 1.2 U | 2.2 U | 2.2 UT | 1.2 U |
| Benzoic acid | 65-85-0 | ug/kg | 490 U | 110 J | 96 U | 100 U | 96 U | 110 U | 490 U | 120 U | 140 J | 200 U | 200 UT | 200 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 11 U | 4.4 J | 7.5 J | 6 J | 5.9 J | 6.5 J | 11 U | 6.2 J | 7.9 J | 4.2 U | 7.5 JT | 8.7 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 7.7 U | 1.5 U | 1.5 U | 1.6 U | 1.5 U | 1.7 U | 7.7 U | 1.8 U | 1.6 U | 3 U | 3 UT | 1.6 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 9.7 U | 1.9 U | 1.9 U | 2 U | 1.9 U | 2.1 U | 9.7 U | 2.3 U | 2.1 U | 3.8 U | 3.8 UT | 2 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 14 U | 2.6 U | 2.6 U | 2.7 U | 2.6 U | 2.8 U | 14 U | 3.1 U | 2.8 U | 5.2 U | 5.2 UT | 2.7 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G673 | LW3-G674 | LW3-G675 | LW3-G676 | LW3-G677 | LW3-G680 | LW3-G681 | LW3-G682 | LW3-G683 | LW3-G684-1 | LW3-G684-2 | LW3-G685 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 6.7 U | 2.1 J | 1.3 U | 7.8 J | 1.3 U | 2 J | 6.7 U | 1.6 U | 1.4 U | 4.6 J | 5.2 JT | 1.4 U |
| Dibenzofuran | 132-64-9 | ug/kg | 1.9 J | 9.9 | 1.5 J | 11 | 1.8 J | 1.2 J | 2.3 J | 1.9 J | 0.7 J | 7.3 | 8 T | 1.3 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 6.1 U | 0.1 J | 0.068 U | 0.21 U | 0.11 J | 0.14 U | 0.18 J | 0.13 J | 0.18 J | 0.27 J | 0.19 JT | 0.11 J |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.15 U | 0.14 U | 0.14 U | 0.21 U | 0.14 U | 0.15 U | 0.15 U | 0.17 U | 0.15 U | 0.14 U | 0.14 UT | 0.15 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 150 U | 29 U | 29 U | 31 U | 29 U | 32 U | 150 U | 34 U | 31 U | 58 U | 58 UT | 30 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.17 U | 0.16 U | 0.16 U | 0.17 U | 0.16 U | 0.18 U | 0.17 U | 0.19 U | 0.17 U | 0.16 U | 0.16 UT | 0.17 U |
| Isophorone | 78-59-1 | ug/kg | 5.1 U | 1 U | 1 U | 1.1 U | 1 U | 1.1 U | 5.1 U | 1.2 U | 1.1 U | 2 U | 2 UT | 1.1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 12 U | 2.2 U | 2.2 U | 2.3 U | 2.2 U | 2.4 U | 12 U | 2.6 U | 2.4 U | 4.4 U | 4.4 UT | 2.3 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 31 U R | | 6.1 U | 6.4 U | 6.1 U | 6.6 U | 32 UJ | 7.1 U | 6.5 U | 13 U | 13 UT | 6.4 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 8.2 U | 1.6 U | 1.6 U | 1.7 U | 1.6 U | 1.8 U | 8.2 U | 1.9 U | 1.7 U | 3.2 U | 3.2 UT | 1.7 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 13 U | 2.4 U | 2.4 U | 2.5 U | 2.4 U | 2.6 U | 13 U | 2.8 U | 2.6 U | 4.8 U | 4.8 UT | 2.5 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G686 | LW3-G687 | LW3-G689 | LW3-G691 | LW3-G692-1 | LW3-G692-2 | LW3-G693 | LW3-G694 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 24 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 20 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.6 U | 35 U | 1.3 U | 1.5 U | 1.5 U | 1.4 UT | 6 U | 1.3 U | 5.3 U | 28 U | 21 U | 1.6 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.6 U | 5.8 U | 5 U | 1.5 U | 1.5 U | 1.4 UT | 3.4 U | 1.3 U | 14 U | 18 U | 1.6 U | 3.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.6 U | 11 U | 3.3 U | 1.5 U | 1.5 U | 1.4 UT | 11 U | 1.3 U | 12 U | 15 U | 18 U | 5.7 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.6 U | 7.2 U | 1.3 U | 1.5 U | 3.4 U | 18 JT | 1.9 U | 21 J | 6.4 U | 8 U | 7.6 U | 1.6 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.6 U | 19 U | 1.3 U | 1.5 U | 1.5 U | 1.4 UT | 1.6 U | 1.3 U | 20 U | 19 U | 15 U | 1.6 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 5.7 J | 9 U | 5.4 J | 10 | 16 U | 110 T | 11 | 35 J | 9.3 U | 5.7 U | 6.6 U | 5.6 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 7.7 J | 7.4 U | 2.9 J | 32 | 6.3 U | 12 JT | 6.9 | 29 J | 11 U | 4.7 U | 5.7 U | 10 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.6 U | 6.3 U | 1.3 U | 1.5 U | 1.5 U | 1.4 UT | 1.6 U | 1.3 U | 8.4 U | 3.4 U | 4.3 U | 1.6 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.6 U | 1.5 U | 1.3 U | 1.5 U | 1.5 U | 1.4 UT | 1.6 U | 1.3 U | 1.7 U | 1.6 U | 1.6 U | 1.6 U |
| Aroclors | 12767-79-2 | ug/kg | 13.4 JT | 35 UT | 8.3 JT | 42 T | 16 UT | 140 JT | 17.9 T | 85 JT | 20 UT | 28 UT | 21 UT | 15.6 T |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | 12.6 | | | | 79.5 | 112 | | | | 72.7 |
| Specific Gravity | SPEC_GRAV | NA | 1.38 | 1.36 | 1.67 | 1.38 | 1.36 | 1.44 T | 1.36 | 1.55 | 1.3 | 1.37 T | 1.35 | 1.36 |
| Sulfide | 18496-25-8 | mg/kg | | | 552 | | | | 0.5 U | 14.5 | | | | 0.5 U |
| Total organic carbon | TOC | percent | 2.03 | 2.07 | 1.15 | 2.02 | 2.24 | 2.25 T | 2.25 | 1.69 | 2.35 | 2.07 T | 2.19 | 2.27 |
| Total solids | TSO | percent | 43.2 | 43.3 | 60.7 | 45 | 45.6 | 46.7 T | 41.7 | 59.1 | 38.5 | 42.1 | 43 | 42.9 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | 0.83 | 0.267 J | | 0.276 J | 0.442 JT | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | 0.51 J | 0.157 J | | 0.0181 U | 0.903 JT | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | 12 | 4.01 | | 4.23 | 8.03 T | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | 97.3 | 33.5 | | 39.6 | 78.4 T | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | 243 | 126 | | 173 | 239 T | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | 2.2 | 1.08 | | 1.53 | 2.39 T | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | 2.39 J | 2.39 J | | 1.95 J | 4.75 T | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | 5.12 | 2.62 J | | 3.04 J | 7.29 T | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | 9.83 | 9.13 | | 7.5 | 9.28 T | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | 14.7 | 13.7 | | 10.1 | 13.2 T | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | 388 JT | 193 JT | | 241 JT | 364 JT | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | 0.016 U | 0.024 U | | 0.0155 U | 0.019 UT | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | 0.108 J | 0.0927 J | | 0.0181 U | 0.154 JT | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | 0.212 J | 0.103 J | | 0.081 J | 0.106 JT | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | 0.914 J | 0.532 J | | 0.522 J | 0.764 JT | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | 0.783 J | 0.302 J | | 0.311 J | 0.515 JT | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | 27.7 | 13.4 | | 14.1 | 26.4 T | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | 0.503 J | 0.359 J | | 0.656 J | 0.92 T | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | 0.428 J | 0.387 J | | 0.423 J | 1.45 JT | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | 0.228 J | 0.218 J | | 0.185 J | 0.569 JT | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | 0.798 J | 0.717 J | | 0.711 J | 2.26 JT | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | 0.275 J | 0.266 J | | 0.23 J | 0.729 JT | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | 0.0437 U | 0.0337 U | | 0.0211 U | 0.0279 UT | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | 0.243 J | 0.154 J | | 0.0666 U | 0.252 JT | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | 2.78 J | 2.19 J | | 1.98 J | 2.88 JT | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | 0.303 J | 0.28 J | | 0.187 U | 0.489 JT | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | 0.947 JT | 0.614 JT | | 0.535 JT | 1.3 JT | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.33 JA | 1.3 JT | 0.878 JT | | 1.19 JT | 1.8 JT | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 0.12 | 0.75 | 0.29 | 0.7 | 0.32 T | 0.23 | 0 | 0 | 0.22 T | 0 | 0.11 |
| Fine gravel | GS_FG | percent | 1.07 | 0.87 | 0.69 | 1.03 | 1.18 | 0.865 T | 1.68 | 0.45 | 4.16 | 2.03 T | 1.54 | 1.22 |
| Very coarse sand | GS_VCS | percent | 0.82 | 1.06 | 0.68 | 0.95 | 0.55 | 0.685 T | 1.02 | 0.34 | 1.89 | 1.78 T | 1.95 | 1.48 |
| Coarse sand | GS_CS | percent | 0.55 | 0.54 | 2.01 | 0.53 | 0.28 | 0.475 T | 0.89 | 0.47 | 1.18 | 0.74 T | 0.67 | 0.48 |
| Medium sand | GS_MS | percent | 0.71 | 0.89 | 32.3 | 0.84 | 0.76 | 0.905 T | 1.54 | 1.23 | 1.42 | 0.8 T | 0.63 | 0.4 |
| Fine sand | GS_FS | percent | 3.37 | 5.47 | 32.8 | 5.59 | 2.89 | 3.33 T | 5.71 | 3.37 | 1.82 | 2.47 T | 2.99 | 1.1 |
| Very fine sand | GS_VFS | percent | 16.4 | 17.1 | 4.73 | 18.4 | 9.12 | 9.89 T | 15.4 | 26.6 | 3.72 | 14.4 T | 14.6 | 9.86 |
| Fines | GS_FINES | percent | 68.5 T | 75.2 T | 24.8 T | 72.5 T | 84.8 T | 79.9 T | 75 T | 70.6 T | 88.2 T | 78.8 T | 78.3 T | 86.1 T |
| Coarse silt | GS_CSILT | percent | 30.5 | 42.2 | 4.45 | 34.3 | 26.6 | 29.8 T | 33 | 31.6 | 33.1 | 31 T | 38.2 | 36.6 |
| Medium silt | GS_MSILT | percent | 15.7 | 15.3 | 6.13 | 15.6 | 22.5 | 20.8 T | 3.29 | 19.3 | 20.4 | 19.2 T | 18.6 | 21 |
| Fine silt | GS_FSILT | percent | 8.5 | 8.03 | 4.71 | 9.4 | 14.5 | 12.2 T | 30.1 | 8.46 | 13.8 | 11 T | 9.02 | 10.9 |
| Very fine silt | GS_VFSILT | percent | 5.15 | 1.94 | 3.98 | 4.94 | 7.35 | 6.73 T | 1.55 | 4.53 | 4.53 | 3.88 T | 2.7 | 5.13 |
| 8-9 Phi clay | GS_CCLAY | percent | 3.33 | 4.05 | 2.48 | 3.02 | 5.34 | 3.56 T | 4.57 | 2.87 | 7.08 | 6.4 T | 4.91 | 4.89 |
| >9 Phi clay | GS_MFCLAY | percent | 5.3 | 3.63 | 3.04 | 5.2 | 8.46 | 6.77 T | 2.47 | 3.87 | 9.26 | 7.27 T | 4.84 | 7.54 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G686 | LW3-G687 | LW3-G689 | LW3-G691 | LW3-G692-1 | LW3-G692-2 | LW3-G693 | LW3-G694 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 24 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 20 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 29300 | 28400 | 13700 | 30800 | 28300 | 26400 T | 28800 | 24900 | 30000 | 32300 T | 30300 | 32100 |
| Antimony | 7440-36-0 | mg/kg | 0.3 J | 0.25 J | 0.13 J | 0.29 J | 0.33 J | 0.345 JT | 0.12 J | 0.15 J | 0.28 J | 0.255 JT | 0.25 J | 0.12 J |
| Arsenic | 7440-38-2 | mg/kg | 3.47 | 4.63 | 2.52 J | 3.38 | 3.01 | 2.83 T | 3.46 J | 3.49 J | 5.3 | 4.85 T | 4.91 | 3.46 J |
| Cadmium | 7440-43-9 | mg/kg | 0.196 | 0.201 J | 0.109 | 0.171 | 0.264 | 0.259 T | 0.214 | 0.226 | 0.267 J | 0.215 JT | 0.209 J | 0.185 |
| Chromium | 7440-47-3 | mg/kg | 28.3 | 28.2 | 15.6 | 27.6 | 27.9 | 26.3 T | 27 | 22.9 | 33.4 | 31.3 T | 31.8 | 28.6 |
| Copper | 7440-50-8 | mg/kg | 41.5 | 37.4 | 18.4 | 41 | 38.7 | 37.9 T | 39.9 | 31.5 | 80.8 | 61.2 T | 39.8 | 68.7 |
| Lead | 7439-92-1 | mg/kg | 11 | 11.2 | 9.1 | 9.7 | 15.3 | 15.1 T | 12 | 16 | 16 | 11.2 T | 10.7 | 11 |
| Mercury | 7439-97-6 | mg/kg | 0.055 | 0.061 | 0.06 | 0.068 | 0.071 | 0.086 T | 0.059 | 0.161 | 0.073 | 0.061 T | 0.055 | 0.062 |
| Nickel | 7440-02-0 | mg/kg | 22 | 22.5 | 16.4 | 22.1 | 22.5 | 22.1 T | 22.7 | 21.4 | 25.5 | 25.2 T | 24.8 | 23 |
| Silver | 7440-22-4 | mg/kg | 0.18 | 0.18 | 0.102 | 0.17 | 0.25 | 0.22 T | 0.188 | 0.242 | 0.27 | 0.185 T | 0.17 | 0.194 |
| Zinc | 7440-66-6 | mg/kg | 108 | 111 | 71.8 | 106 | 111 | 110 T | 111 | 122 | 136 | 120 T | 111 | 120 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 2 J | 2 J | 3.6 | 1.6 J | 3.6 | 3 JT | 2.6 J | 17 | 2.3 J | 0.98 J | 1.9 J | 1.9 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 3.2 | 3.2 | 7.1 | 2.3 J | 6.8 | 5.1 T | 4.1 | 32 | 3.2 J | 1.2 J | 2.7 J | 2.5 J |
| Acenaphthene | 83-32-9 | ug/kg | 2.7 J | 3.6 | 9.2 | 1.5 J | 11 | 9 T | 4.1 | 25 | 2.2 J | 0.95 J | 2.4 J | 1.8 J |
| Acenaphthylene | 208-96-8 | ug/kg | 2.7 J | 3.2 | 14 | 1.9 J | 6.7 | 4.7 T | 4.5 | 24 | 3.4 | 1.2 J | 2.6 J | 2.6 J |
| Anthracene | 120-12-7 | ug/kg | 6.5 | 12 | 27 | 3.2 | 15 | 12 T | 9.5 | 34 | 4.6 | 1.8 J | 3.7 | 5.5 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 19 | 31 | 120 | 13 | 43 | 40 T | 28 | 67 | 21 | 8.8 | 13 | 14 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 20 | 24 | 130 | 15 | 41 | 34 T | 27 | 76 | 26 | 9.2 | 15 | 16 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 31 | 36 | 99 | 21 | 60 | 93 T | 38 | 84 | 44 | 14 | 22 | 24 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 19 | 21 | 80 | 12 | 36 | 44 T | 24 | 55 | 27 | 8.5 | 14 | 15 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 18 | 21 | 69 | 13 | 38 | 28 T | 22 | 61 | 27 | 10 | 15 | 15 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 9.2 | 12 | 30 | 6.6 | 19 | 23 T | 13 | 25 | 14 | 3.8 | 5.9 | 7.5 |
| Chrysene | 218-01-9 | ug/kg | 32 | 48 | 160 | 18 | 63 | 77 T | 40 | 90 | 41 | 11 | 19 | 21 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 2.9 | 3.1 | 14 | 2.3 J | 5.6 | 5.4 T | 3.8 | 7.3 | 4 | 1.8 J | 1.9 J | 2.4 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 2.1 J | 2.3 J | 8 | 1.1 J | 5.9 | 4.4 T | 2.8 J | 13 | 1.4 J | 0.52 J | 1.2 J | 1.1 J |
| Fluoranthene | 206-44-0 | ug/kg | 66 | 82 | 160 | 29 | 150 | 100 T | 95 | 220 | 56 | 17 | 34 | 39 |
| Fluorene | 86-73-7 | ug/kg | 5.3 | 5.3 | 9.4 | 2 J | 15 | 12 T | 6.2 | 26 | 3.3 | 1.1 J | 3 | 2.4 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 16 | 17 | 62 | 11 | 36 | 28 T | 20 | 51 | 23 | 9 | 12 | 12 |
| Naphthalene | 91-20-3 | ug/kg | 13 | 8.9 | 25 | 6.7 | 20 | 12 T | 13 | 85 | 11 | 4.8 | 9.3 | 8.7 |
| Perylene | 198-55-0 | ug/kg | 60 | 22 | 36 | 16 | 80 | 40 T | 42 | 100 | 50 | 12 | 25 | 47 |
| Phenanthrene | 85-01-8 | ug/kg | 26 | 34 | 94 | 13 | 78 | 64 T | 40 | 180 | 25 | 8.3 | 18 | 18 |
| Pyrene | 129-00-0 | ug/kg | 57 | 78 | 260 | 29 | 140 | 100 T | 81 | 250 | 59 | 19 | 34 | 40 |
| High Molecular Weight PAH | HPAH | ug/kg | 270 T | 350 T | 1100 T | 160 JT | 600 T | 530 T | 370 T | 930 T | 320 T | 100 JT | 170 JT | 190 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 59 JT | 70 T | 190 T | 31 JT | 150 T | 120 T | 81 T | 410 T | 53 JT | 19 JT | 42 JT | 42 JT |
| Total PAHs | 130498-29-2 | ug/kg | 330 JT | 420 T | 1300 T | 190 JT | 750 T | 650 T | 450 T | 1300 T | 370 JT | 120 JT | 210 JT | 230 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 28 J | 31 J | 140 | 20 J | 53 J | 42 JT | 53 | 72 | 31 J | 15 J | 31 J | 41 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 4.1 | 5 | 6.2 | 1.6 J | 20 | 11 T | 8.4 | 53 | 3.1 J | 0.21 U | 2.5 J | 3.4 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 29 | 46 | 220 | 18 | 80 | 61 T | 74 | 120 | 33 | 12 | 21 | 26 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 4.1 | 4.6 | 51 | 2.8 | 11 | 7.1 T | 6.3 | 30 | 3.4 | 1.6 J | 3.4 | 3.5 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 20 | 27 | 130 | 9.8 | 58 | 39 T | 21 | 94 | 22 | 7.2 | 14 | 14 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 18 | 19 | 61 | 12 | 43 | 29 T | 31 | 58 | 25 | 7.9 | 18 | 20 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 6.1 | 9.4 | 41 | 5.6 | 26 | 14 T | 12 | 47 | 11 | 2.9 J | 5.9 | 5.4 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 21 | 27 | 120 | 12 | 56 | 35 T | 33 | 76 | 23 | 10 | 17 | 20 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 7.2 | 8.1 | 41 | 4.5 | 25 | 15 T | 12 | 57 | 6.5 | 2.3 J | 4.6 | 6.5 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 4.6 | 6.5 | 15 | 3.9 | 22 | 13 T | 8 | 78 | 6.6 | 2.3 J | 5.4 | 4.9 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 16 | 29 | 150 | 11 | 60 | 36 T | 42 | 160 | 28 | 6 | 15 | 26 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 15 | 16 | 35 | 11 | 38 | 26 T | 30 | 46 | 22 | 6.9 | 17 | 16 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 7.3 | 9.7 | 30 | 7.4 | 30 | 14 T | 14 | 54 | 8.6 | 3.2 | 5.3 | 7.2 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 14 | 18 | 50 | 9.7 | 39 | 28 T | 24 | 57 | 19 | 6.3 | 12 | 14 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 0.5 U | 13 | 37 | 6.1 | 39 | 24 T | 21 | 91 | 10 | 3.6 | 10 | 13 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 4.1 | 6.3 | 11 | 3.3 | 23 | 13 T | 9.1 | 120 | 6.1 | 1.6 J | 5.9 | 4.7 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 17 | 22 | 85 | 13 | 56 | 36 T | 29 | 150 | 21 | 6 | 15 | 15 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 6.6 | 8.8 | 17 | 0.25 U | 25 | 17 T | 11 | 0.25 U | 9.7 | 0.25 U | 0.25 U | 8.5 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 4.8 | 9.6 | 18 | 3.8 | 32 | 16 T | 11 | 110 | 7.2 | 2 J | 6.3 | 6.4 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 15 | 22 | 47 | 12 | 28 | 19 T | 18 | 57 | 14 | 5.3 | 8.1 | 9.5 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 5.58 | 7.04 | 5.05 U | | 9.32 T | 8.67 T | | | | | | |
| PCB002 | 2051-61-8 | pg/g | 16.3 | 11.4 | 5.05 U | | 29.3 T | 21.3 T | | | | | | |
| PCB003 | 2051-62-9 | pg/g | 6.08 | 8.35 | 5.05 U | | 12 T | 10.9 T | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | 23.5 | 21.5 | 10.1 U | | 33.5 T | 30.4 T | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | 29.9 | 53.9 | 17.6 | | 95.9 T | 89.2 T | | | | | | |
| PCB006 | 25569-80-6 | pg/g | 9.68 U | 12.7 | 10.1 U | | 22.1 T | 22.9 T | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | 9.68 U | 9.95 U | 10.1 U | | 9.88 UT | 9.73 UT | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G686 | LW3-G687 | LW3-G689 | LW3-G691 | LW3-G692-1 | LW3-G692-2 | LW3-G693 | LW3-G694 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 24 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 20 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 156 | 180 | 28.2 | | 190 T | 210 T | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | 9.68 U | 9.95 U | 10.1 U | | 12.6 T | 12.9 JT | | | | | | |
| PCB014 | 34883-41-5 | pg/g | 9.68 U | 9.95 U | 10.1 U | | 9.88 UT | 9.73 UT | | | | | | |
| PCB015 | 2050-68-2 | pg/g | 35.9 | 59.8 | 21.6 | | 105 T | 101 T | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | 34.3 | 62.6 | 49.3 | | 151 T | 124 T | | | | | | |
| PCB017 | 37680-66-3 | pg/g | 28.5 | 45.3 | 34.3 | | 111 T | 89.2 T | | | | | | |
| PCB018 | 37680-65-2 | pg/g | 47.3 | 96.3 | 73.7 | | 233 T | 186 T | | | | | | |
| PCB019 | 38444-73-4 | pg/g | 34 | 26.1 | 16.1 | | 47.7 T | 39.2 T | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 43.2 | 98.1 | 61.7 | | 228 T | 201 T | | | | | | |
| PCB022 | 38444-85-8 | pg/g | 31.1 | 58.7 | 39.8 | | 136 T | 121 T | | | | | | |
| PCB023 | 55720-44-0 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | 8.08 | 9.79 | 5.05 U | | 20.2 T | 16.5 T | | | | | | |
| PCB025 | 55712-37-3 | pg/g | 12.7 | 21.4 | 12.9 | | 44.4 T | 40.9 T | | | | | | |
| PCB026 | 38444-81-4 | pg/g | 20.7 | 36.6 | 22.8 | | 70 T | 62.5 T | | | | | | |
| PCB028 | 7012-37-5 | pg/g | 100 | 215 | 111 | | 496 T | 439 T | | | | | | |
| PCB029 | 15862-07-4 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB030 | 35693-92-6 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB031 | 16606-02-3 | pg/g | 84.2 | 166 | 114 | | 369 T | 318 T | | | | | | |
| PCB034 | 37680-68-5 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB035 | 37680-69-6 | pg/g | 4.84 U | 5.95 | 5.05 U | | 9.62 T | 8.73 T | | | | | | |
| PCB036 | 38444-87-0 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB037 | 38444-90-5 | pg/g | 41.1 | 83.2 | 33.7 | | 180 T | 151 T | | | | | | |
| PCB038 | 53555-66-1 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 5.13 T | 4.86 UT | | | | | | |
| PCB039 | 38444-88-1 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB040 | 38444-93-8 | pg/g | 15.3 | 26 | 25.5 | | 83.3 T | 69.7 T | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 103 | 157 | 130 | | 452 T | 383 T | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | 31.3 | 50.2 | 56.1 | | 168 T | 135 T | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | 115 | 181 | 162 | | 507 T | 395 T | | | | | | |
| PCB044 | 41464-39-5 | pg/g | 110 | 165 | 211 | | 525 T | 419 T | | | | | | |
| PCB045 | 70362-45-7 | pg/g | 10.1 | 20.3 | 32.7 | | 64.9 T | 49.5 T | | | | | | |
| PCB046 | 41464-47-5 | pg/g | 5.67 | 9.56 | 16.5 | | 29.9 T | 22.2 T | | | | | | |
| PCB047 | 2437-79-8 | pg/g | 88.3 | 87.9 | 75.4 | | 205 T | 162 T | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | 16.3 | 34 | 36.9 | | 116 T | 92.1 T | | | | | | |
| PCB050 | 62796-65-0 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB051 | 68194-04-7 | pg/g | 28.7 | 19.6 | 23.7 | | 43.4 T | 37 T | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | 184 | 239 | 217 | | 638 T | 488 T | | | | | | |
| PCB053 | 41464-41-9 | pg/g | 36.1 | 36.4 | 48.8 | | 92.6 T | 71.3 T | | | | | | |
| PCB054 | 15968-05-5 | pg/g | 8.37 | 5.61 | 5.05 U | | 9.37 T | 7.52 T | | | | | | |
| PCB055 | 74338-24-2 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 8.57 T | 6.77 JT | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | 63.1 | 128 | 141 | | 356 T | 281 T | | | | | | |
| PCB057 | 70424-67-8 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB058 | 41464-49-7 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | 169 | 284 | 248 | | 768 T | 618 T | | | | | | |
| PCB062 | 54230-22-7 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB063 | 74472-34-7 | pg/g | 4.84 U | 8.7 | 5.81 | | 26.2 T | 21.6 T | | | | | | |
| PCB065 | 33284-54-7 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | 138 | 240 | 212 | | 648 T | 516 T | | | | | | |
| PCB067 | 73575-53-8 | pg/g | 4.84 U | 6.89 | 5.05 U | | 19.6 T | 16 T | | | | | | |
| PCB068 | 73575-52-7 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 8.07 T | 7.3 T | | | | | | |
| PCB073 | 74338-23-1 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB074 | 32690-93-0 | pg/g | 56 | 104 | 80.2 | | 304 T | 236 T | | | | | | |
| PCB077 | 32598-13-3 | pg/g | 18 | 29 | 14.3 | | 68.5 T | 61 T | | | | | | |
| PCB078 | 70362-49-1 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB079 | 41464-48-6 | pg/g | 5.5 | 7.54 | 5.05 U | | 12.3 T | 11 T | | | | | | |
| PCB080 | 33284-52-5 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB081 | 70362-50-4 | pg/g | 0.899 U | 1.05 J | 4.44 U | | 3.36 JT | 2.66 JT | | | | | | |
| PCB082 | 52663-62-4 | pg/g | 35.5 | 44.9 | 61.9 | | 121 T | 92.2 T | | | | | | |
| PCB083 | 60145-20-2 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | 170 | 187 | 129 | | 418 T | 329 T | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | 61.4 | 77.2 | 62.7 | | 159 T | 131 T | | | | | | |
| PCB086 | 55312-69-1 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 134 | 149 | 103 | | 308 T | 243 T | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | 76.6 | 81.7 | 55 | | 169 T | 135 T | | | | | | |
| PCB089 | 73575-57-2 | pg/g | 4.84 U | 5.08 | 7.44 | | 13 T | 10.1 T | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | 447 | 518 | 272 | | 1030 T | 822 T | | | | | | |
| PCB093 | 73575-56-1 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G686 | LW3-G687 | LW3-G689 | LW3-G691 | LW3-G692-1 | LW3-G692-2 | LW3-G693 | LW3-G694 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 24 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 20 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 6.48 | 4.98 U | 5.05 U | | 8.44 T | 7.67 JT | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 362 | 364 | 223 | | 749 T | 587 T | | | | | | |
| PCB096 | 73575-54-9 | pg/g | 6.45 | 5.86 | 5.05 U | | 11.7 T | 9.88 T | | | | | | |
| PCB097 | 41464-51-1 | pg/g | 101 | 125 | 94.3 | | 274 T | 213 T | | | | | | |
| PCB099 | 38380-01-7 | pg/g | 184 | 232 | 150 | | 487 T | 399 T | | | | | | |
| PCB100 | 39485-83-1 | pg/g | 18.1 | 10.4 | 5.05 U | | 19.1 T | 18.1 T | | | | | | |
| PCB103 | 60145-21-3 | pg/g | 13.3 | 11.7 | 5.05 U | | 26.1 T | 23 T | | | | | | |
| PCB104 | 56558-16-8 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB105 | 32598-14-4 | pg/g | 116 | 144 | 111 | | 261 T | 216 T | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | 332 | 414 | 237 | | 845 T | 695 T | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | 25.8 | 32.8 | 21.6 | | 77.1 T | 64.4 T | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | 17.4 | 21.1 | 16.9 | | 47.5 T | 37.8 T | | | | | | |
| PCB110 | 38380-03-9 | pg/g | 499 | 571 | 354 | | 1130 T | 919 T | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | 6.48 | 7.14 | 5.05 U | | 15.2 T | 11 T | | | | | | |
| PCB113 | 68194-10-5 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 6.24 T | 4.96 T | | | | | | |
| PCB114 | 74472-37-0 | pg/g | 7.72 | 9.73 | 6.26 | | 14.6 T | 11.5 T | | | | | | |
| PCB119 | 56558-17-9 | pg/g | 14.9 | 17.3 | 7.75 | | 38.2 T | 32.3 T | | | | | | |
| PCB120 | 68194-12-7 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB121 | 56558-18-0 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB122 | 76842-07-4 | pg/g | 4.84 U | 5.2 | 5.05 U | | 9.83 T | 8.51 T | | | | | | |
| PCB123 | 65510-44-3 | pg/g | 6.26 | 8.13 | 5.49 | | 14.8 T | 12.7 T | | | | | | |
| PCB124 | 70424-70-3 | pg/g | 16.3 | 18.4 | 12.4 | | 32.3 T | 27 T | | | | | | |
| PCB126 | 57465-28-8 | pg/g | 3.11 J | 3.31 J | 2.51 J | | 6.07 T | 4.63 JT | | | | | | |
| PCB127 | 39635-33-1 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | 83.9 | 84.2 | 45.3 | | 161 T | 134 T | | | | | | |
| PCB129 | 55215-18-4 | pg/g | 25.4 | 22.9 | 10.8 | | 41.9 T | 33.9 T | | | | | | |
| PCB130 | 52663-66-8 | pg/g | 44.3 | 44.8 | 21.8 | | 88.1 T | 76.4 T | | | | | | |
| PCB131 | 61798-70-7 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | 174 | 173 | 83.4 | | 326 T | 274 T | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | 21.5 | 22.8 | 10.9 | | 40 T | 35.2 T | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | 29.3 | 29.2 | 15.9 | | 56.5 T | 48 T | | | | | | |
| PCB135 | 52744-13-5 | pg/g | 113 | 113 | 41.9 | | 173 T | 150 T | | | | | | |
| PCB136 | 38411-22-2 | pg/g | 105 | 101 | 41.9 | | 167 T | 142 T | | | | | | |
| PCB137 | 35694-06-5 | pg/g | 25.5 | 23.8 | 14.1 | | 42.8 T | 37.5 T | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 656 | 679 | 289 | | 1230 T | 1040 T | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | 674 | 697 | 235 | | 1000 T | 872 T | | | | | | |
| PCB140 | 59291-64-4 | pg/g | 6.37 UJ | 8.26 | 5.05 U | | 12 T | 11.2 T | | | | | | |
| PCB141 | 52712-04-6 | pg/g | 119 | 119 | 64.9 | | 212 T | 189 T | | | | | | |
| PCB144 | 68194-14-9 | pg/g | 34.6 | 33.4 | 16 | | 51.3 T | 42.1 T | | | | | | |
| PCB145 | 74472-40-5 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | 113 | 128 | 49.6 | | 239 T | 206 T | | | | | | |
| PCB147 | 68194-13-8 | pg/g | 29.3 | 24 | 6.99 | | 36 T | 31.6 T | | | | | | |
| PCB148 | 74472-41-6 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 5.82 T | 5.37 T | | | | | | |
| PCB150 | 68194-08-1 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 5.92 T | 5.96 T | | | | | | |
| PCB151 | 52663-63-5 | pg/g | 196 | 196 | 81.2 | | 310 T | 268 T | | | | | | |
| PCB152 | 68194-09-2 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB153 | 35065-27-1 | pg/g | 651 | 676 | 325 | | 1270 T | 1090 T | | | | | | |
| PCB154 | 60145-22-4 | pg/g | 21.5 | 23.2 | 6.82 | | 37.1 T | 33.7 T | | | | | | |
| PCB155 | 33979-03-2 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB156 | 38380-08-4 | pg/g | 54.7 | 54.3 | 28.8 | | 99.3 T | 85.1 T | | | | | | |
| PCB157 | 69782-90-7 | pg/g | 11.7 | 11.4 | 6.89 | | 21.4 T | 17.6 T | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | 66.3 | 66.8 | 30.9 | | 115 T | 95.3 T | | | | | | |
| PCB159 | 39635-35-3 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB166 | 41411-63-6 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB167 | 52663-72-6 | pg/g | 22.8 | 23.4 | 13.5 | | 43.4 T | 37.4 T | | | | | | |
| PCB168 | 59291-65-5 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB169 | 32774-16-6 | pg/g | 0.861 U | 0.934 U | 1.6 U | | 0.947 UT | 1.44 UT | | | | | | |
| PCB170 | 35065-30-6 | pg/g | 197 | 194 | 99.4 | | 376 T | 316 T | | | | | | |
| PCB171 | 52663-71-5 | pg/g | 51.3 | 51.5 | 25.5 | | 101 T | 88.6 T | | | | | | |
| PCB172 | 52663-74-8 | pg/g | 33.6 | 35 | 17.2 | | 69.1 T | 59.1 T | | | | | | |
| PCB173 | 68194-16-1 | pg/g | 5.02 | 5.22 | 5.05 U | | 9.7 T | 8.01 T | | | | | | |
| PCB174 | 38411-25-5 | pg/g | 235 | 238 | 112 | | 462 T | 387 T | | | | | | |
| PCB175 | 40186-70-7 | pg/g | 10.8 | 12.2 | 5.61 | | 20.5 T | 17.7 T | | | | | | |
| PCB176 | 52663-65-7 | pg/g | 32.7 | 34.5 | 14.7 | | 58.8 T | 53.5 T | | | | | | |
| PCB177 | 52663-70-4 | pg/g | 131 | 132 | 69.5 | | 264 T | 225 T | | | | | | |
| PCB178 | 52663-67-9 | pg/g | 56.9 | 62.6 | 26.4 | | 104 T | 93 T | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G686 | LW3-G687 | LW3-G689 | LW3-G691 | LW3-G692-1 | LW3-G692-2 | LW3-G693 | LW3-G694 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 24 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 20 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 115 | 124 | 58.2 | | 215 T | 195 T | | | | | | |
| PCB180 | 35065-29-3 | pg/g | 493 | 504 | 261 | | 992 T | 841 T | | | | | | |
| PCB181 | 74472-47-2 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 347 | 370 | 170 | | 639 T | 554 T | | | | | | |
| PCB183 | 52663-69-1 | pg/g | 136 | 142 | 75.1 | | 244 T | 215 T | | | | | | |
| PCB184 | 74472-48-3 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB185 | 52712-05-7 | pg/g | 23.9 | 24.3 | 14 | | 49 T | 40.2 T | | | | | | |
| PCB186 | 74472-49-4 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB188 | 74487-85-7 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB189 | 39635-31-9 | pg/g | 7.36 | 7.23 | 3.99 J | | 14.5 T | 11 T | | | | | | |
| PCB190 | 41411-64-7 | pg/g | 41.4 | 42.2 | 20.1 | | 80.7 T | 66.9 T | | | | | | |
| PCB191 | 74472-50-7 | pg/g | 8.33 | 8.56 | 5.05 U | | 16.1 T | 14.1 JT | | | | | | |
| PCB192 | 74472-51-8 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB193 | 69782-91-8 | pg/g | 25.3 | 25.7 | 12.3 | | 49.6 T | 43.9 T | | | | | | |
| PCB194 | 35694-08-7 | pg/g | 119 | 123 | 64.4 | | 289 T | 209 T | | | | | | |
| PCB195 | 52663-78-2 | pg/g | 46.7 | 50.9 | 27.4 | | 99.3 T | 78.8 T | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | 162 | 172 | 72 | | 462 JT | 273 T | | | | | | |
| PCB197 | 33091-17-7 | pg/g | 4.84 U | 5.24 | 5.05 U | | 10.8 T | 8.06 T | | | | | | |
| PCB198 | 68194-17-2 | pg/g | 6.97 | 8.94 | 5.05 U | | 18.8 T | 16.9 T | | | | | | |
| PCB199 | 52663-75-9 | pg/g | 155 | 170 | 80.1 | | 503 JT | 274 T | | | | | | |
| PCB200 | 52663-73-7 | pg/g | 16.4 | 21.5 | 7.76 UJ | | 47.2 JT | 34.1 T | | | | | | |
| PCB201 | 40186-71-8 | pg/g | 15.5 | 18.9 | 9.29 | | 50.3 JT | 30.6 T | | | | | | |
| PCB202 | 2136-99-4 | pg/g | 26 | 31.5 | 16.4 | | 118 JT | 51.5 T | | | | | | |
| PCB204 | 74472-52-9 | pg/g | 4.84 U | 4.98 U | 5.05 U | | 4.94 UT | 4.86 UT | | | | | | |
| PCB205 | 74472-53-0 | pg/g | 5.5 | 5.62 | 5.05 U | | 11.3 T | 10.9 JT | | | | | | |
| PCB206 | 40186-72-9 | pg/g | 58.6 | 78.2 | 46.1 | | 568 JT | 143 T | | | | | | |
| PCB207 | 52663-79-3 | pg/g | 6.96 | 10.6 | 5.05 U | | 56 JT | 16.2 T | | | | | | |
| PCB208 | 52663-77-1 | pg/g | 16.9 | 25 | 13.9 | | 200 JT | 46.4 T | | | | | | |
| PCB209 | 2051-24-3 | pg/g | 51.4 | 71 | 48.9 | | 272 JT | 130 T | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | 10500 JT | 12300 JT | 7110 JT | | 26300 JT | 21000 JT | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 0.33 JT | 0.354 JT | 0.265 JT | | 0.654 JT | 0.502 JT | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 28 T | 26.8 T | 5.05 UT | | 50.6 T | 40.9 T | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 245 T | 328 T | 67.4 T | | 459 T | 466 JT | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 485 T | 925 T | 569 T | | 2100 T | 1800 T | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 1200 T | 1840 JT | 1740 T | | 5160 JT | 4110 JT | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 2660 JT | 3060 JT | 1930 JT | | 6290 T | 5060 JT | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 3270 T | 3350 T | 1440 T | | 5780 T | 4960 T | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 1950 T | 2010 T | 985 JT | | 3770 T | 3230 JT | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 553 T | 608 T | 270 T | | 1610 JT | 987 JT | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 82.5 T | 114 T | 60 T | | 824 JT | 206 T | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.25 U | 1.9 NJ | 0.99 | 1.4 U | 2 | 2.1 JT | 0.99 NJ | 1.3 U | 0.79 J | 0.25 U | 0.24 U | 0.26 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.24 U | 0.49 J | 0.13 U | 0.23 U | 0.23 U | 0.28 UT | 0.24 U | 0.5 U | 0.26 U | 0.054 U | 0.054 U | 0.24 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.58 | 0.071 U | 0.19 U | 0.62 U | 0.85 U | 6.9 JT | 0.74 | 2.4 J | 0.93 | 0.45 U | 0.43 U | 0.92 NJ |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.8 | 2.8 | 1.7 | 0.8 | 5.5 | 3.8 T | 2.5 | 3 | 0.82 | 0.8 | 0.98 | 0.77 |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.6 | 2.2 | 1.1 J | 1.6 | 3.6 | 2.7 JT | 2.4 J | 6 J | 1.8 | 1.6 | 1.9 | 1.9 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.59 U | 0.93 U | 0.2 U | 3.3 U | 11 | 0.87 UT | 2.7 | 2.2 J | 2.4 | 0.59 U | 0.61 U | 1.4 J |
| Aldrin | 309-00-2 | ug/kg | 0.43 U | 1.2 NJ | 0.21 U | 0.62 U | 0.14 U | 0.22 UT | 0.3 U | 0.12 U | 0.3 U | 0.46 U | 0.53 U | 0.44 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.21 J | 0.12 U | 0.073 U | 0.19 J | 0.29 J | 0.14 UT | 0.18 J | 0.037 U | 0.19 J | 0.25 | 0.19 J | 0.12 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.12 U | 0.12 U | 0.097 U | 0.13 U | 0.11 U | 0.1 UT | 0.12 U | 0.097 U | 0.13 U | 0.85 J | 0.12 U | 0.12 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.14 U | 0.036 U | 0.12 U | 0.23 U | 0.12 U | 0.28 UT | 0.085 U | 0.19 U | 0.16 U | 0.037 U | 0.036 U | 0.13 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.17 U | 0.17 U | 0.14 U | 0.55 U | 0.16 U | 0.15 UT | 0.18 U | 0.29 NJ | 0.19 U | 0.17 U | 0.17 U | 0.17 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.11 U | 0.24 U | 0.031 U | 0.049 J | 0.13 U | 0.035 UT | 0.038 U | 0.12 J | 0.22 NJ | 0.037 U | 0.13 U | 0.14 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.42 U | 0.49 U | 0.2 U | 1.8 U | 0.51 U | 0.52 UT | 0.56 U | 1.8 U | 0.73 U | 0.38 U | 0.39 U | 0.64 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.13 U | 0.13 U | 0.11 U | 0.13 U | 0.12 U | 0.12 UT | 0.14 U | 0.53 NJ | 0.15 U | 0.13 U | 0.13 U | 0.13 U |
| Dieldrin | 60-57-1 | ug/kg | 0.26 U | 0.45 J | 0.2 U | 0.31 | 0.49 | 0.43 UT | 0.13 U | 0.03 U | 0.34 | 0.44 | 0.51 U | 0.11 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.24 U | 0.24 U | 0.2 U | 0.23 U | 0.22 U | 0.21 UT | 0.07 U | 0.58 U | 0.26 U | 0.24 U | 0.24 U | 0.24 U |
| Endrin | 72-20-8 | ug/kg | 0.24 U | 0.082 U | 0.071 U | 0.079 U | 0.22 U | 0.084 UT | 0.085 U | 0.17 U | 0.26 U | 0.22 U | 0.083 U | 0.083 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.24 U | 0.24 U | 0.042 UJ | 0.56 U | 0.41 NJ | 0.56 JT | 0.051 UJ | 0.2 UJ | 0.26 U | 0.24 U | 0.24 U | 0.049 UJ |
| Endrin ketone | 53494-70-5 | ug/kg | 0.29 U | 0.35 | 0.096 U | 0.74 U | 0.24 U | 0.18 UT | 0.22 NJ | 0.38 U | 0.66 NJ | 0.27 NJ | 0.3 U | 0.25 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.24 U | 0.24 U | 0.37 U | 0.43 U | 0.28 U | 0.2 UT | 0.24 U | 0.32 U | 0.26 U | 0.24 U | 0.24 U | 0.24 U |
| Heptachlor | 76-44-8 | ug/kg | 0.088 U | 0.088 U | 0.19 U | 0.085 U | 0.083 U | 0.78 JT | 0.091 U | 0.15 NJ | 0.099 U | 0.089 U | 0.088 U | 0.089 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.24 U | 0.24 U | 0.068 U | 0.23 U | 0.19 U | 0.44 UT | 0.24 U | 0.37 U | 0.64 NJ | 0.24 U | 0.24 U | 0.24 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.68 U | 0.33 U | 0.19 U | 0.63 U | 0.83 U | 0.6 UT | 0.4 U | 0.2 U | 0.82 U | 0.088 U | 0.43 U | 0.66 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G686 | LW3-G687 | LW3-G689 | LW3-G691 | LW3-G692-1 | LW3-G692-2 | LW3-G693 | LW3-G694 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 24 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 20 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.14 U | 0.14 U | 0.12 U | 0.14 U | 0.14 U | 0.13 UT | 0.15 U | 0.12 U | 0.16 U | 0.14 U | 0.14 U | 0.14 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.26 U | 0.71 U | 0.061 U | 0.45 U | 0.067 U | 0.063 UT | 0.25 U | 0.2 U | 0.26 U | 0.24 U | 0.29 U | 0.1 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.57 JT | 0.71 UT | 0.48 JT | 0.76 JT | 0.98 JT | 0.52 UT | 0.65 JT | 0.12 JT | 0.22 JT | 0.32 JT | 0.55 JT | 0.39 T |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.21 JT | 0.24 UT | 0.2 UT | 0.19 JT | 0.29 JT | 0.28 UT | 0.18 JT | 0.58 UT | 0.19 JT | 0.25 T | 0.19 JT | 0.12 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.8 T | 4.7 JT | 2.7 T | 0.8 T | 7.5 T | 5.9 JT | 3.5 JT | 3 T | 1.6 JT | 0.8 T | 0.98 T | 0.77 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 3 T | 7.4 JT | 3.8 JT | 2.4 T | 22 T | 16 JT | 9.3 JT | 14 JT | 6.7 JT | 2.4 T | 2.9 T | 5 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.6 T | 2.7 JT | 1.1 JT | 1.6 T | 3.6 T | 2.7 JT | 2.4 JT | 6 JT | 1.8 T | 1.6 T | 1.9 T | 1.9 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.58 T | 0.93 UT | 0.2 UT | 3.3 UT | 11 T | 6.9 JT | 3.4 T | 4.6 JT | 3.3 T | 0.59 UT | 0.61 UT | 2.3 JT |
| Toxaphene | 8001-35-2 | ug/kg | 22 U | 13 U | 13 U | 30 U | 35 U | 61 UT | 18 U | 43 U | 27 U | 16 U | 22 U | 23 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.38 | 0.56 U | 0.48 NJ | 0.58 J | 0.58 J | 0.37 UT | 0.36 NJ | 0.76 U | 0.54 U | 0.32 J | 0.36 J | 0.39 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.19 J | 0.16 U | 0.034 U | 0.13 J | 0.4 NJ | 0.12 UT | 0.29 NJ | 0.034 U | 0.15 U | 0.17 U | 0.19 J | 0.15 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 57 J | 78 J | 59 J | 62 J | 130 J | 115 JT | 83 J | 186 JT | 94 J | 66 JT | 69 J | 57 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 36 J | 50 J | 44 J | 34 J | 110 J | 89 JT | 68 J | 170 JT | 59 J | 38.5 JT | 40 J | 51 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 280 J | 500 J | 200 J | 330 J | 480 J | 450 JT | 490 J | 472 JT | 520 J | 443 JT | 510 J | 380 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 130 J | 200 J | 88 J | 140 J | 270 J | 235 JT | 220 J | 320 JT | 240 J | 165 JT | 180 J | 200 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 337 JA | 578 JA | 259 JA | 392 JA | 610 JA | 565 JA | 573 JA | 658 JA | 614 JA | 509 JA | 579 JA | 437 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 166 JA | 250 JA | 132 JA | 174 JA | 380 JA | 324 JA | 288 JA | 490 JA | 299 JA | 204 JA | 220 JA | 251 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.48 U | 0.48 U | 0.34 U | 0.62 J | 0.44 U | 0.42 UT | 0.5 U | 0.36 U | 0.54 U | 0.5 U | 0.48 U | 0.49 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.39 U | 0.39 U | 0.28 U | 0.38 U | 0.36 U | 0.34 UT | 0.5 J | 0.29 U | 0.44 U | 0.4 U | 0.39 U | 0.4 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.3 U | 1.3 U | 0.9 U | 1.3 U | 1.2 U | 1.1 UT | 1.4 U | 5.5 U | 1.5 U | 1.3 U | 1.3 U | 1.3 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.25 UJ | 0.3 U | 0.18 U | 0.25 UJ | 0.24 U | 0.23 UT | 0.27 U | 0.36 NJ | 0.29 U | 0.29 U | 0.25 U | 0.26 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.2 U | 5.8 U | 1 U | 1.2 U | 1.1 U | 1.1 UT | 1.2 U | 1 U | 6.5 U | 1.2 U | 5.8 U | 1.2 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | 32 U | 5.5 U | R | 6.1 UJ | 5.6 UJT | 6.6 U | 5.5 U | 36 U | 6.5 UJ | 32 U | 6.5 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 20 U | 99 U | 17 U | 19 U | 19 U | 18 UT | 21 U | 17 U | 110 U | 21 U | 99 U | 20 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.4 U | 12 U | 2 U | 2.3 U | 2.2 U | 2.1 UT | 2.4 U | 2 U | 13 U | 2.4 U | 12 U | 2.4 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.8 U | 8.7 U | 1.5 U | 1.7 U | 1.7 U | 1.6 UT | 1.8 U | 1.5 U | 9.7 U | 1.8 U | 8.7 U | 1.8 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.8 U | 8.7 U | 1.5 U | 1.7 U | 1.7 U | 1.6 UT | 1.8 U | 1.5 U | 9.7 U | 1.8 U | 8.7 U | 1.8 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.7 U | 8.1 U | 1.4 U | 1.6 U | 1.6 U | 1.5 UT | 1.7 U | 1.4 U | 9.1 U | 1.7 U | 8.1 U | 1.7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.7 U | 8.1 U | 1.4 U | 1.6 U | 1.6 U | 1.5 UT | 1.7 U | 1.4 U | 9.1 U | 1.7 U | 8.1 U | 1.7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 6.7 J | 15 J | 1.5 U | 12 | 20 J | 16 JT | 14 | 99 | 10 J | 5.8 J | 17 J | 7.2 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 21 U | 110 U | 18 U | 20 U | 20 U | 19 UT | 22 U | 18 U | 120 U | 22 U | 110 U | 21 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 6.4 U | 5.1 U | 0.26 U | 0.36 U | 5.5 U | 0.32 UT | 5.2 NJ | 0.63 NJ | 5.4 U | 4.8 U | 0.37 U | 0.63 U |
| Phenol | 108-95-2 | ug/kg | 6.2 J | 12 U | 36 | 5.7 J | 7.6 J | 7.1 JT | 14 U | 12 U | 13 U | 6.9 J | 12 U | 13 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 150 | 190 | 39 | 160 | 140 J | 110 JT | 160 | 34 | 230 | 96 | 200 | 170 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 5.5 J | 19 U | 4.7 J | 25 | 18 | 11 JT | 17 | 3.2 U | 33 J | 8.3 J | 19 U | 17 |
| Dibutyl phthalate | 84-74-2 | ug/kg | 19 | 46 U | 12 | 24 | 31 U | 49 UT | 24 | 17 | 52 U | 15 | 46 U | 25 |
| Diethyl phthalate | 84-66-2 | ug/kg | 3.6 J | 7.5 U | 2.9 J | 4.1 J | 5.6 J | 7.4 JT | 7.1 U | 5.3 U | 8.4 U | 3.3 J | 7.6 U | 6.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.2 U | 5.8 U | 1 U | 1.2 U | 1.1 U | 1.1 UT | 1.2 U | 1 U | 6.5 U | 2.3 J | 5.8 U | 2.9 J |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 2 U | 9.9 U | 1.7 U | 1.9 U | 1.9 U | 1.8 UT | 2.1 U | 1.7 U | 11 U | 2.1 U | 9.9 U | 2 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 3.1 U | 15 U | 2.6 U | 2.9 U | 2.9 U | 2.7 UT | 3.2 U | 2.6 U | 17 U | 3.1 U | 16 U | 3.1 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3.4 U | 17 U | 2.9 U | 3.3 U | 3.2 U | 3 UT | 3.5 U | 2.9 U | 19 U | 3.5 U | 17 U | 3.4 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.5 U | 18 U | 3 U | 3.4 U | 3.3 U | 3.1 UT | 3.6 U | 3 U | 20 U | 3.6 U | 18 U | 3.5 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3.4 U | 17 U | 2.9 U | 3.3 U | 3.2 U | 3 UT | 3.5 U | 4.1 J | 19 U | 3.5 U | 17 U | 3.4 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.8 U | 8.7 U | 1.5 U | 1.7 U | 1.7 U | 1.6 UT | 1.8 U | 1.5 U | 9.7 U | 1.8 U | 8.7 U | 1.8 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.4 U | 12 U | 2 U | 2.3 U | 2.2 U | 2.1 UT | 2.4 U | 2 U | 13 U | 2.4 U | 12 U | 2.4 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.9 U | 9.3 U | 1.6 U | 1.8 U | 1.8 U | 1.7 UT | 2 U | 1.6 U | 11 U | 1.9 U | 9.3 U | 1.9 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.8 U | 19 U | 3.2 U | 3.6 U | 3.5 U | 3.3 UT | 3.9 U | 3.2 U | 21 U | 3.8 U | 19 U | 3.8 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 4.3 U | 22 U | 3.7 U | 4.2 U | 4.1 UJ | 3.8 UJT | 4.5 U | 3.7 U | 24 U | R | 22 U | 4.4 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.9 U | 15 U | 2.5 U | 2.8 U | 2.8 U | 2.6 UT | 3 U | 2.5 U | 17 U | R | 15 U | 3 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.9 U | 9.3 U | 1.6 U | 1.8 U | 1.8 U | 1.7 UT | 2 U | 1.6 U | 11 U | 1.9 U | 9.3 U | 1.9 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2.2 U | 11 U | 1.9 U | 2.2 U | 2.1 U | 2 UT | 2.3 U | 1.9 U | 13 U | R | 11 U | 2.3 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.7 U | 8.1 U | 1.4 U | 1.6 U | 1.6 U | 1.5 UT | 1.7 U | 1.4 U | 9.1 U | 1.7 U | 8.1 U | 1.7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 2.1 U | 11 U | 1.8 U | 2 U | 2 U | 1.9 UT | 2.2 U | 1.8 U | 12 U | 2.2 U | 11 U | 2.1 U |
| Aniline | 62-53-3 | ug/kg | 1.8 U | 8.7 U | 1.5 U | 1.7 U | 1.7 U | 1.6 UT | 1.8 U | 1.5 U | 9.7 U | R | 8.7 U | 1.8 U |
| Azobenzene | 103-33-3 | ug/kg | 1.3 U | 6.4 U | 1.1 U | 1.3 U | 1.3 U | 1.2 UT | 1.4 U | 1.1 U | 7.2 U | 1.3 UJ | 6.4 U | 1.3 U |
| Benzoic acid | 65-85-0 | ug/kg | 120 U | 560 U | 140 J | 140 J | 130 J | 98 UT | 120 U | 120 J | 630 U | 120 U | 560 U | 150 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 6.3 J | 13 U | 6.3 J | 7.9 J | 11 | 8.4 JT | 12 | 13 | 14 U | 7.2 J | 13 U | 15 |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.8 U | 8.7 U | 1.5 U | 1.7 U | 1.7 U | 1.6 UT | 1.8 U | 1.5 U | 9.7 U | 1.8 U | 8.7 U | 1.8 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2.2 U | 11 U | 1.9 U | 2.2 U | 2.1 U | 2 UT | 2.3 U | 1.9 U | 13 U | 2.3 U | 11 U | 2.3 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 3.1 U | 15 U | 2.6 U | 2.9 U | 2.9 U | 2.7 UT | 3.2 U | 2.6 U | 17 U | 3.1 U | 16 U | 3.1 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G686 | LW3-G687 | LW3-G689 | LW3-G691 | LW3-G692-1 | LW3-G692-2 | LW3-G693 | LW3-G694 | LW3-G696 | LW3-G697 | LW3-G699 | LW3-G700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 24 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 20 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 2.7 J | 7.5 U | 2.5 J | 2.4 J | 6.2 J | 5 JT | 3.5 J | 6.7 J | 8.4 U | 1.8 J | 7.6 U | 3.1 J |
| Dibenzofuran | 132-64-9 | ug/kg | 3.8 | 3.5 | 1.9 J | 1.5 J | 8.9 | 7 T | 4.4 | 13 | 2.3 J | 0.85 J | 2 J | 1.8 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.24 U | 0.24 U | 0.068 U | 0.29 J | 0.22 U | 0.21 UT | 0.2 J | 1.2 U | 0.089 U | 0.27 U | 0.24 U | 0.13 J |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.22 U | 0.17 U | 0.55 U | 0.16 U | 0.44 | 0.5 T | 0.17 U | 0.14 U | 0.45 U | 0.4 U | 0.53 J | 0.17 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 34 U | 170 U | 29 U | 33 U | 32 U | 30 UT | 35 U | 29 U | 190 U | 35 U | 170 U | 34 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.19 U | 0.19 U | 0.16 U | 0.23 U | 0.18 U | 0.17 UT | 0.2 U | 0.16 U | 0.21 U | 0.19 U | 0.19 U | 0.19 U |
| Isophorone | 78-59-1 | ug/kg | 1.2 U | 5.8 U | 1 U | 1.2 U | 1.1 U | 1.1 UT | 1.2 U | 1 U | 6.5 U | 1.2 U | 5.8 U | 1.2 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.6 U | 13 U | 2.2 U | 2.5 U | 2.5 U | 2.3 UT | 2.7 U | 2.2 U | 15 U | 2.6 U | 13 U | 2.6 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 7.1 U | 36 U | 6.1 U | 6.8 U | 6.7 U | 6.3 UT | 7.4 U | 6.1 U | 40 U | 7.2 UJ | 36 U | 7.2 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.9 U | 9.3 U | 1.6 U | 1.8 U | 7.4 J | 5.3 JT | 2 U | 1.6 U | 11 U | 1.9 U | 9.3 U | 1.9 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.8 U | 14 U | 2.4 U | 2.7 U | 2.7 U | 2.5 UT | 2.9 U | 2.4 U | 16 U | 2.9 U | 14 U | 2.8 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G705 | LW3-G706 | LW3-G707 | LW3-G710 | LW3-G711 | LW3-G713 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G718 | LW3-G719 | LW3-G720 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 25 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 11 U | 25 U | 1.5 U | 11 U | 1.5 U | 1.3 U | 16 U | 1.6 U | 4.5 U | 1.5 U | 5.9 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 9 U | 4.5 U | 6 U | 1.4 U | 5.7 U | 5.2 U | 5 U | 1.6 U | 6.9 U | 5.7 U | 3.6 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 7.5 U | 69 U | 6.5 U | 9.7 U | 7.5 U | 4.5 U | 28 U | 1.6 U | 4.7 U | 6.4 U | 18 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 3.2 U | 34 U | 1.5 U | 7.4 U | 1.5 U | 1.4 U | 9.6 U | 1.6 U | 1.6 U | 1.5 U | 7.9 U | 4.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 3 U | 21 U | 1.5 U | 4.4 U | 1.5 U | 1.3 U | 7.6 U | 1.6 U | 1.6 U | 1.5 U | 1.7 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 5.4 U | 8.3 U | 8.5 | 5.6 U | 6.2 | 5.4 | 4.1 U | 2.1 J | 4.5 U | 4.9 | 4.8 U | 3.4 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 5.2 U | 8.4 U | 5.1 J | 5.2 U | 6.5 J | 5.4 | 3.7 U | 3.2 | 7.6 J | 5.1 | 5.4 U | 3.6 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 3.7 U | 6.8 U | 1.5 U | 3.7 U | 1.5 U | 1.3 U | 2.9 U | 1.6 U | 1.6 U | 1.5 U | 1.7 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.6 U | 1.5 U | 1.4 U | 1.5 U | 1.3 U | 1.3 U | 1.6 U | 1.6 U | 1.5 U | 1.7 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 11 UT | 69 UT | 13.6 JT | 11 UT | 12.7 JT | 10.8 T | 28 UT | 5.3 JT | 7.6 JT | 10 T | 18 UT | 7 T |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | 81.6 | | 91.8 | 119 | | | | 83.8 | | |
| Specific Gravity | SPEC_GRAV | NA | 1.49 | 1.34 | 1.4 | 1.42 | 1.39 | 1.47 | 1.48 | 1.49 | 1.6 T | 1.38 | 1.35 | 1.63 |
| Sulfide | 18496-25-8 | mg/kg | | | 4.9 | | 1.9 J | 1.8 J | | | | 13.1 J | | |
| Total organic carbon | TOC | percent | 1.39 | 2.11 | 1.75 | 1.56 | 2.02 | 1.52 | 1.52 | 2.31 | 2.22 T | 2.2 | 2.29 | 0.81 |
| Total solids | TSO | percent | 52.9 T | 41.5 | 44.6 | 47.6 | 44 | 51.2 | 49.5 | 41.2 | 41.4 T | 43.6 T | 39.4 | 62.2 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.81 | 0 | 0 | 0.02 | 0.06 | 0.02 | 0 | 0.88 | 1.58 T | 0.36 | 1.14 | 0.26 |
| Fine gravel | GS_FG | percent | 0.26 | 3.32 | 0.99 | 0.32 | 0.5 | 0.46 | 0.17 | 1.42 | 1.67 T | 1.07 | 1.65 | 0.4 |
| Very coarse sand | GS_VCS | percent | 0.57 | 2.17 | 1.56 | 0.75 | 0.94 | 0.5 | 0.81 | 0.69 | 1.04 T | 1.07 | 1.17 | 0.44 |
| Coarse sand | GS_CS | percent | 0.61 | 0.91 | 0.66 | 0.53 | 0.72 | 0.39 | 1.06 | 0.57 | 0.73 T | 0.57 | 0.71 | 6 |
| Medium sand | GS_MS | percent | 2.46 | 0.87 | 0.81 | 1.03 | 0.72 | 0.64 | 1.09 | 0.69 | 0.987 T | 1.15 | 0.81 | 36.2 |
| Fine sand | GS_FS | percent | 23.6 | 2.7 | 7.54 | 25.4 | 7.02 | 16.6 | 25.6 | 2.42 | 2.95 T | 21.9 | 6.88 | 21.6 |
| Very fine sand | GS_VFS | percent | 24.2 | 11.2 | 23.2 | 19.3 | 19.6 | 24 | 36.1 | 11.8 | 11.9 T | 6.99 | 14 | 8.4 |
| Fines | GS_FINES | percent | 52.1 T | 79.5 T | 73.1 T | 53.6 T | 71 T | 58.5 T | 37.7 T | 84.2 T | 78.2 T | 66.7 T | 79.9 T | 27.3 T |
| Coarse silt | GS_CSILT | percent | 21.9 | 33.9 | 32.6 | 24.4 | 35.6 | 20.9 | 14.7 | 47.4 | 42.5 T | 24 | 42.9 | 10.1 |
| Medium silt | GS_MSILT | percent | 12 | 20 | 17.6 | 12.71 | 16.6 | 15.2 | 10.1 | 12.2 | 14.9 T | 16.6 | 14.5 | 6.48 |
| Fine silt | GS_FSILT | percent | 6.85 | 11.3 | 11.1 | 6.35 | 8.3 | 7.84 | 4.79 | 10.4 | 9.11 T | 9.83 | 9.4 | 3.94 |
| Very fine silt | GS_VFSILT | percent | 2.52 | 2.9 | 2.63 | 2.08 | 3.84 | 5.15 | 2.22 | 5.6 | 4.71 T | 6.21 | 5.2 | 1.01 |
| 8-9 Phi clay | GS_CCLAY | percent | 4.59 | 5.47 | 3.77 | 4.06 | 2.84 | 3.74 | 3.32 | 3.54 | 2.85 T | 4.41 | 3.44 | 2.7 |
| >9 Phi clay | GS_MFCLAY | percent | 4.26 | 5.9 | 5.43 | 3.95 | 3.84 | 5.7 | 2.61 | 5.03 | 4.15 T | 5.68 | 4.48 | 3.03 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G705 | LW3-G706 | LW3-G707 | LW3-G710 | LW3-G711 | LW3-G713 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G718 | LW3-G719 | LW3-G720 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 25 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 26700 | 25800 | 27900 | 24100 | 26900 | 29700 | 23800 | 32300 | 28400 T | 31100 | 31500 | 17700 |
| Antimony | 7440-36-0 | mg/kg | 0.23 J | 0.27 J | 0.15 J | 0.22 J | 0.11 J | 0.13 J | 0.41 J | 0.38 J | 0.38 JT | 0.11 J | 0.36 J | 0.19 J |
| Arsenic | 7440-38-2 | mg/kg | 4.15 | 4.52 | 3.18 J | 4.52 | 3.44 J | 2.9 J | 4.16 | 3.02 | 2.91 T | 3.48 J | 3.26 | 3.57 |
| Cadmium | 7440-43-9 | mg/kg | 0.154 J | 0.18 J | 0.178 | 0.174 J | 0.202 | 0.15 | 0.16 J | 0.249 | 0.269 T | 0.189 | 0.263 | 0.106 J |
| Chromium | 7440-47-3 | mg/kg | 27.2 | 25.5 | 27.8 | 28.8 | 27.6 | 26.7 | 26.9 | 29.2 | 28.1 T | 29.1 | 30.8 | 19.6 |
| Copper | 7440-50-8 | mg/kg | 42.2 | 180 | 37.7 | 34.7 | 36.6 | 32 | 32.3 | 39.7 | 39.8 T | 38.6 | 40.9 | 24.2 |
| Lead | 7439-92-1 | mg/kg | 9.97 | 10.5 | 10 | 10.6 | 9.9 | 9.5 | 9.88 | 12.2 | 12.8 T | 10 | 12.9 | 7.43 |
| Mercury | 7439-97-6 | mg/kg | 0.071 | 0.058 | 0.055 | 0.066 | 0.051 | 0.05 | 0.038 | 0.064 | 0.0945 T | 0.053 | 0.113 | 0.038 |
| Nickel | 7440-02-0 | mg/kg | 23.2 | 20.7 | 22.7 | 23.9 | 23.3 | 22 | 24 | 24.5 | 23.8 T | 24.5 | 26.2 | 22.3 |
| Silver | 7440-22-4 | mg/kg | 0.15 | 0.21 | 0.159 | 0.16 | 0.147 | 0.19 | 0.12 | 0.19 | 0.185 T | 0.162 | 0.2 | 0.13 |
| Zinc | 7440-66-6 | mg/kg | 100 | 165 | 102 | 101 | 95 | 92.1 | 90.8 | 113 | 110 T | 103 | 110 | 80.1 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.6 J | 4.5 | 1.5 J | 1.4 J | 1.6 J | 1.5 J | 1.6 J | 1.3 J | 1.6 J | 1.4 J | 1.3 J | 1 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 1.9 J | 5.5 | 2.1 J | 2.1 J | 2.4 J | 2.1 J | 2 J | 1.9 J | 2.6 J | 2.2 J | 1.8 J | 1.5 J |
| Acenaphthene | 83-32-9 | ug/kg | 2.6 | 2.8 J | 1.4 J | 1.2 J | 2.1 J | 6.6 | 2.1 J | 1.2 J | 1.9 J | 1.4 J | 1.4 J | 1.8 J |
| Acenaphthylene | 208-96-8 | ug/kg | 1.7 J | 2.8 J | 2.6 J | 2.1 J | 2.7 J | 1.8 J | 1.9 J | 2.1 J | 2 J | 2.8 J | 2.3 J | 1.4 J |
| Anthracene | 120-12-7 | ug/kg | 7.2 | 2.4 J | 2.9 | 3.6 | 4.2 | 4.8 | 4.3 | 3.3 | 3.6 | 4.5 | 3.6 | 2.8 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 14 | 17 | 9.7 | 11 | 33 | 12 | 10 | 11 | 12 | 13 | 12 | 8 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 13 | 18 | 11 | 11 | 26 | 13 | 11 | 12 | 13 | 15 | 12 | 8.4 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 17 | 26 | 17 | 16 | 39 | 19 | 16 | 17 | 19 | 20 | 21 | 13 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 9.7 | 17 | 11 | 10 | 20 | 11 | 9.7 | 11 | 11 J | 13 | 12 | 7.8 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 10 | 17 | 12 | 11 | 15 | 12 | 12 | 12 | 13 | 17 | 10 | 8.6 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 5.5 | 8 | 5 | 4.6 | 14 | 5.5 | 5.5 | 4.4 | 8.8 | 6.2 | 5.6 | 3.5 |
| Chrysene | 218-01-9 | ug/kg | 17 | 25 | 16 | 16 | 28 | 23 | 16 | 16 | 17 | 21 | 16 | 12 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 1.8 J | 2.7 J | 1.6 J | 1.3 J | 2.8 J | 1.9 J | 1.7 J | 1.8 J | 2 J | 2 J | 1.5 J | 1.2 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 1.5 J | 1.3 J | 0.92 J | 0.69 J | 1.2 J | 1.2 J | 1.3 J | 0.83 J | 1.2 J | 0.93 J | 0.94 J | 1.1 J |
| Fluoranthene | 206-44-0 | ug/kg | 30 | 43 | 31 | 27 | 52 | 32 | 28 | 25 | 34 | 36 | 30 | 20 |
| Fluorene | 86-73-7 | ug/kg | 3.5 | 3.4 | 2.1 J | 2.1 J | 2.9 J | 5.6 | 2.6 J | 1.8 J | 2.7 J | 2.3 J | 1.8 J | 1.6 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 8.9 | 14 | 9 | 8.2 | 14 | 10 | 10 | 11 | 12 | 12 | 9.2 | 7.7 |
| Naphthalene | 91-20-3 | ug/kg | 5.7 | 11 | 8.4 | 7.5 | 7.6 | 6 | 5.9 | 6.5 | 7.4 | 8.9 | 8.1 | 5.8 |
| Perylene | 198-55-0 | ug/kg | 34 | 22 | 26 | 19 | 30 | 60 | 15 | 13 | 12 | 26 | 14 | 33 |
| Phenanthrene | 85-01-8 | ug/kg | 26 | 25 | 14 | 13 | 19 | 22 | 21 | 12 | 17 | 16 | 14 | 13 |
| Pyrene | 129-00-0 | ug/kg | 33 | 44 | 32 | 28 | 55 | 30 | 32 | 26 | 32 | 35 | 33 | 22 |
| High Molecular Weight PAH | HPAH | ug/kg | 150 JT | 210 JT | 140 JT | 130 JT | 280 JT | 160 JT | 140 JT | 140 JT | 160 JT | 180 JT | 150 JT | 100 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 49 JT | 53 JT | 34 JT | 32 JT | 41 JT | 49 JT | 40 JT | 29 JT | 37 JT | 38 JT | 33 JT | 28 JT |
| Total PAHs | 130498-29-2 | ug/kg | 200 JT | 270 JT | 180 JT | 170 JT | 320 JT | 210 JT | 180 JT | 170 JT | 200 JT | 220 JT | 180 JT | 130 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 23 J | 26 J | 29 | 20 J | 45 | 27 | 15 J | 7 | 22 J | 32 | 8.1 | 10 J |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 2 J | 2.4 J | 2.9 J | 1.8 J | 3.9 | 2.6 | 1.4 J | 1.6 J | 3.8 | 3.7 | 1.8 J | 2.4 J |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 23 | 26 | 19 | 20 | 40 | 24 | 18 | 18 | 21 | 25 | 19 | 14 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 4 | 4.7 | 2.7 J | 2.3 J | 2.7 J | 2.6 | 2.5 J | 2.4 J | 2.8 J | 2.7 J | 2.3 J | 2.5 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 22 | 21 | 7.8 | 13 | 11 | 9.3 | 13 | 8.9 | 12 | 12 | 12 | 8.3 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 25 | 14 | 16 | 15 | 22 | 17 | 13 | 10 | 10 | 18 | 12 | 11 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 4.8 | 8.5 | 5.2 | 3.7 | 5.9 | 4.8 | 5 | 4.6 | 5.2 | 4.9 | 5.8 | 4.9 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 16 | 22 | 18 | 15 | 30 | 16 | 13 | 12 | 16 | 22 | 17 | 10 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 3.9 | 10 | 5 | 5.2 | 5.4 | 3.7 | 3.7 | 4.2 | 5.8 | 3.9 | 4.3 | 3.3 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 4.3 | 10 | 3.8 | 3.9 | 3.8 | 3.8 | 3.7 | 4.1 | 5 | 3.9 | 3.4 | 2.9 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 13 | 16 | 19 | 12 | 25 | 18 | 10 | 9.1 | 10 | 23 | 11 | 9.4 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 18 | 16 | 13 | 12 | 15 | 12 | 9.6 | 11 | 12 | 15 | 13 | 8.8 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 0.21 U | 8.6 | 5.6 | 4.2 | 6.4 | 5.8 | 4.5 | 4.8 | 5.6 | 5.2 | 5.3 | 4 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 14 | 16 | 13 | 8.9 | 16 | 12 | 8.8 | 7.7 | 9.1 | 13 | 9.1 | 9 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 6.8 | 8.2 | 8.9 | 8 | 11 | 7.6 | 4 | 5.2 | 7.1 | 8.4 | 6.4 | 8.1 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 4 | 9.4 | 3.2 | 3.9 | 4 | 3.5 | 3.5 | 4.1 | 5.7 | 3.9 | 3.7 | 3.1 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 13 | 16 | 25 | 12 | 34 | 19 | 9.3 | 11 | 12 | 13 | 11 | 11 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 5.1 | 8.1 | 4.1 | 6.2 | 5.7 | 4.4 | 3.8 | 3.8 | 5.3 | 4.6 | 3.7 | 5 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 12 | 11 | 7.7 | 6.4 | 10 | 7 | 6.3 | 7 | 8.2 | 20 | 0.75 U | 6 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G705 | LW3-G706 | LW3-G707 | LW3-G710 | LW3-G711 | LW3-G713 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G718 | LW3-G719 | LW3-G720 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 25 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G705 | LW3-G706 | LW3-G707 | LW3-G710 | LW3-G711 | LW3-G713 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G718 | LW3-G719 | LW3-G720 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 25 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G705 | LW3-G706 | LW3-G707 | LW3-G710 | LW3-G711 | LW3-G713 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G718 | LW3-G719 | LW3-G720 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 25 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.3 U | 0.96 J | 0.53 U | 0.21 U | 1.4 U | 0.2 U | 1.8 U | 0.25 U | 0.31 U | 0.8 U | 0.26 U | 0.16 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.046 U | 0.056 U | 0.23 U | 0.21 U | 0.23 U | 0.2 U | 0.2 U | 0.19 U | 0.055 U | 0.23 U | 0.059 U | 0.18 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.46 U | 0.76 U | 0.57 J | 0.46 U | 0.46 U | 0.37 | 0.061 U | 0.5 U | 0.72 U | 0.37 U | 0.46 U | 0.32 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 1.2 | 1 | 0.69 | 0.52 | 0.63 J | 0.61 | 0.72 | 1.3 | 1 | 0.65 | 0.71 | 0.28 U |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.6 | 1.8 | 1.5 J | 1.1 | 1.6 J | 1.7 J | 1.1 | 2.4 J | 1.9 | 1.4 | 1.5 | 0.67 |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.51 U | 3.4 NJ | 1.3 J | 1.7 J | 0.53 U | 0.96 J | 0.18 U | 1.8 NJ | 0.64 U | 0.75 U | 0.45 U | 0.87 J |
| Aldrin | 309-00-2 | ug/kg | 0.37 | 0.5 U | 0.25 U | 0.37 | 0.42 U | 0.19 U | 0.33 U | 0.51 | 0.44 U | 0.25 U | 0.51 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.13 J | 0.2 J | 0.27 NJ | 0.19 J | 0.2 J | 0.12 J | 0.15 NJ | 0.34 J | 0.28 J | 0.16 J | 0.43 NJ | 0.074 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.12 U | 0.11 U | 0.11 U | 0.11 U | 0.097 U | 0.097 U | 0.12 U | 0.12 U | 0.12 U | 0.13 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.12 U | 0.092 U | 0.033 U | 0.078 U | 0.031 U | 0.2 U | 0.038 U | 0.22 U | 0.036 U | 0.26 U | 0.056 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.17 U | 0.16 U | 0.15 U | 0.16 U | 0.14 U | 0.14 U | 0.17 U | 0.17 U | 0.19 J | 0.21 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.29 J | 0.25 U | 0.16 NJ | 0.057 U | 0.091 U | 0.039 U | 0.099 U | 0.16 J | 0.078 U | 0.062 U | 0.081 U | 0.039 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.38 U | 0.49 U | 0.53 U | 0.37 U | 0.49 U | 0.34 U | 0.38 U | 0.35 U | 0.47 U | 0.47 U | 0.32 U | 0.26 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.14 U | 0.13 U | 0.12 U | 0.23 U | 0.11 U | 0.11 U | 0.14 U | 0.14 U | 0.13 U | 0.14 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.34 J | 0.037 U | 0.097 U | 0.24 | 0.034 U | 0.066 J | 0.3 | 0.25 U | 0.36 U | 0.035 U | 0.54 U | 0.14 J |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.2 U | 0.07 U | 0.23 U | 0.21 U | 0.23 U | 0.2 U | 0.22 U | 0.25 U | 0.24 U | 0.23 U | 0.29 U | 0.058 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.25 U | 0.08 U | 0.074 U | 0.081 U | 0.071 U | 0.071 U | 0.25 U | 0.24 U | 0.081 U | 0.23 U | 0.2 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.23 NJ | 0.25 U | 0.23 UJ | 0.21 U | 0.048 UJ | 0.042 UJ | 0.2 NJ | 0.25 U | 0.24 U | 0.23 UJ | 0.26 U | 0.2 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.23 U | 0.25 U | 0.17 U | 0.24 U | 0.37 NJ | 0.15 U | 0.15 U | 0.2 U | 0.44 U | 0.31 NJ | 0.36 U | 0.12 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 0.25 U | 0.23 U | 0.065 U | 0.071 U | 0.2 U | 0.2 U | 0.25 U | 0.25 U | 0.071 U | 0.26 U | 0.062 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.092 U | 0.085 U | 0.079 U | 0.086 U | 0.076 U | 0.2 U | 0.092 U | 0.091 U | 0.087 U | 0.097 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.2 U | 0.25 U | 0.23 U | 0.21 U | 0.077 U | 0.068 U | 0.2 U | 0.25 U | 0.24 U | 0.23 U | 0.26 U | 0.16 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.43 U | 0.63 U | 0.4 U | 0.6 U | 0.36 U | 0.5 U | 0.34 U | 0.44 U | 0.24 U | 0.39 U | 0.39 U | 0.45 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G705 | LW3-G706 | LW3-G707 | LW3-G710 | LW3-G711 | LW3-G713 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G718 | LW3-G719 | LW3-G720 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 25 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.15 U | 0.14 U | 0.13 U | 0.14 U | 0.12 U | 0.12 U | 0.15 U | 0.15 U | 0.14 U | 0.16 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 U | 0.25 U | 0.23 U | 0.064 U | 0.29 U | 0.061 U | 0.85 U | 0.23 J | 0.3 U | 0.29 U | 0.46 U | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.93 JT | 0.46 T | 0.56 JT | 0.33 T | 0.35 T | 0.41 JT | 0.31 T | 0.58 JT | 0.59 JT | 0.34 JT | 0.46 UT | 0.21 T |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.13 JT | 0.2 JT | 0.27 JT | 0.19 JT | 0.2 JT | 0.12 JT | 0.15 JT | 0.34 JT | 0.28 JT | 0.16 JT | 0.43 JT | 0.074 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 1.2 T | 2 JT | 0.69 T | 0.52 T | 0.63 JT | 0.61 T | 0.72 T | 1.3 T | 1 T | 0.65 T | 0.71 T | 0.28 UT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 2.8 T | 7.2 JT | 4.1 JT | 3.3 JT | 2.2 JT | 3.6 JT | 1.8 T | 5.5 JT | 2.9 T | 2.1 T | 2.2 T | 1.5 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.6 T | 1.8 T | 1.5 JT | 1.1 T | 1.6 JT | 1.7 JT | 1.1 T | 2.4 JT | 1.9 T | 1.4 T | 1.5 T | 0.67 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.51 UT | 3.4 JT | 1.9 JT | 1.7 JT | 0.53 UT | 1.3 JT | 0.18 UT | 1.8 JT | 0.72 UT | 0.75 UT | 0.46 UT | 0.87 JT |
| Toxaphene | 8001-35-2 | ug/kg | 15 U | 34 U | 18 U | 7.4 U | 22 U | 16 U | 20 U | 24 U | 45 U | 15 U | 21 U | 9.9 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.4 | 0.46 | 0.4 | 0.33 | 0.35 | 0.29 J | 0.31 | 0.33 U | 0.39 J | 0.34 J | 0.32 U | 0.21 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.24 J | 0.18 U | 0.11 U | 0.16 U | 0.12 U | 0.12 J | 0.14 U | 0.19 J | 0.2 J | 0.097 U | 0.15 U | 0.048 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 57 J | 82 J | 51 J | 53 J | 52 J | 51 J | 50 J | 82 J | 60.8 JT | 57 J | 79 J | 33 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 32 J | 45 J | 41 J | 34 J | 39 J | 48 J | 20 J | 46 J | 41.5 JT | 43 J | 48 J | 22 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 340 J | 500 J | 370 J | 350 J | 390 J | 290 J | 340 J | 480 J | 365 JT | 410 J | 450 J | 180 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 120 J | 190 J | 160 J | 140 J | 160 J | 150 J | 97 J | 180 J | 155 JT | 170 J | 180 J | 83 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 397 JA | 582 JA | 421 JA | 403 JA | 442 JA | 341 JA | 390 JA | 562 JA | 426 JA | 467 JA | 529 JA | 213 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 152 JA | 235 JA | 201 JA | 174 JA | 199 JA | 198 JA | 117 JA | 226 JA | 197 JA | 213 JA | 228 JA | 105 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.39 U | 7.5 J | 0.47 U | 0.43 U | 0.47 U | 0.41 U | 0.41 U | 0.5 U | 0.51 U | 0.48 U | 0.52 U | 0.33 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.32 U | 9.7 J | 0.39 U | 1.5 U | 0.39 U | 0.34 U | 0.34 U | 0.41 U | 0.41 U | 0.39 U | 0.42 U | 0.27 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.1 U | 4.1 U | 1.3 U | 1.2 U | 1.3 U | 1.1 U | 1.1 U | 1.4 U | 1.4 U | 1.3 U | 1.4 U | 0.86 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.23 U | 0.43 U | 0.25 U | 0.25 U | 0.25 U | 0.22 U | 0.28 U | 0.27 U | 0.27 U | 0.25 U | 0.28 U | 0.18 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 6.1 U | 1.2 U | 5.3 U | 1.2 U | 1 U | 5.1 U | 1.3 U | 1.2 U | 1.2 U | 1.3 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 U | 34 U | 6.2 U | 29 U | 6.3 U | 5.5 U | 28 U | 6.7 UJ | 6.6 UJ | 6.3 U | 7 UJ | 5.5 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 110 U | 20 U | 89 U | 20 U | 17 U | 86 U | 21 U | 21 U | 20 U | 22 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 13 U | 2.3 U | 11 U | 2.3 U | 2 U | 11 U | 2.5 U | 2.4 U | 2.3 U | 2.6 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 9.1 U | 1.7 U | 7.9 U | 1.8 U | 1.5 U | 7.6 U | 1.9 U | 1.8 U | 1.8 U | 2 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 9.1 U | 1.7 U | 7.9 U | 1.8 U | 1.5 U | 7.6 U | 1.9 U | 1.8 U | 1.8 U | 2 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 8.5 U | 1.6 U | 7.4 U | 1.6 U | 1.4 U | 7.1 U | 1.7 U | 1.7 U | 1.7 U | 1.8 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 8.5 U | 1.6 U | 7.4 U | 1.6 U | 1.4 U | 7.1 U | 1.7 U | 1.7 U | 1.7 U | 1.8 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 15 | 15 J | 9.1 J | 9.9 J | 12 J | 5.2 J | 18 J | 12 J | 13 J | 9.7 J | 13 J | 3.7 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 110 U | 21 U | 95 U | 21 U | 18 U | 91 U | 22 U | 22 U | 21 U | 23 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 3.9 U | 17 J | 10 J | 4.3 U | 0.36 U | 0.57 U | 8.8 NJ | 0.38 U | 3.6 NJ | 0.37 U | 0.4 U | 0.96 J |
| Phenol | 108-95-2 | ug/kg | 4.9 J | 13 U | 13 U | 11 U | 13 U | 9.6 U | 11 U | 4.9 J | 6.5 J | 12 U | 8 J | 4.1 J |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 110 | 330 | 150 | 140 | 150 | 70 | 390 | 130 J | 140 J | 130 | 150 J | 69 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 6.2 J | 20 U | 6.2 J | 17 U | 9.8 J | 3.2 U | 17 U | 6.4 J | 5.9 J | 3.7 U | 38 | 5.7 J |
| Dibutyl phthalate | 84-74-2 | ug/kg | 13 | 48 U | 23 | 42 U | 23 | 17 | 40 U | 34 U | 17 U | 18 | 27 U | 17 |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.7 J | 7.9 U | 5.7 U | 6.8 U | 6.4 U | 5 U | 7.7 J | 6.4 J | 4.1 J | 4.6 U | 6.1 J | 3.8 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 6.1 U | 1.2 U | 5.3 U | 1.5 J | 1 U | 5.1 U | 1.3 U | 1.5 J | 1.2 U | 1.3 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 11 U | 2 U | 8.9 U | 2 U | 1.7 U | 8.6 U | 2.1 U | 2.1 U | 2 U | 2.2 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 16 U | 3 U | 14 U | 3 U | 2.6 U | 14 U | 3.2 U | 3.2 U | 3 U | 3.3 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 18 U | 3.3 U | 16 U | 3.3 U | 2.9 U | 15 U | 3.6 U | 3.5 U | 3.4 U | 3.7 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 19 U | 3.4 U | 16 U | 3.5 U | 3 U | 16 U | 3.7 U | 3.6 U | 3.5 U | 3.9 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 18 U | 3.3 U | 16 U | 3.3 U | 2.9 U | 15 U | 3.6 U | 3.5 U | 3.4 U | 3.7 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 9.1 U | 1.7 U | 7.9 U | 1.8 U | 1.5 U | 7.6 U | 1.9 U | 1.8 U | 1.8 U | 2 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 13 U | 2.3 U | 11 U | 2.3 U | 2 U | 11 U | 2.5 U | 2.4 U | 2.3 U | 2.6 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 9.7 U | 1.8 U | 8.4 U | 1.9 U | 1.6 U | 8.1 U | 2 U | 2 U | 1.9 U | 2.1 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 20 U | 3.6 U | 17 U | 3.7 U | 3.2 U | 17 U | 3.9 U | 3.9 U | 3.7 U | 4.1 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 23 U | 4.2 U | 20 U | 4.2 U | 3.7 U | 19 U | 4.5 UJ | R | 4.3 U | 4.7 UJ | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 16 U | 2.9 U | 14 U | 2.9 U | 2.5 U | 13 U | 3.1 U | R | 2.9 U | 3.2 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 9.7 U | 1.8 U | 8.4 U | 1.9 U | 1.6 U | 8.1 U | 2 U | 2 U | 1.9 U | 2.1 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 12 U | 2.2 U | 10 U | 2.2 U | 1.9 U | 9.6 U | 2.4 U | R | 2.2 U | 2.5 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 8.5 U | 1.6 U | 7.4 U | 1.6 U | 1.4 U | 7.1 U | 1.7 U | 1.7 U | 1.7 U | 1.8 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 11 U | 2.1 U | 9.5 U | 2.1 U | 1.8 U | 9.1 U | 2.2 U | 2.2 UJ | 2.1 U | 2.3 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 1.5 U | 9.1 U | 1.7 U | 7.9 U | 1.8 U | 1.5 U | 7.6 U | 1.9 U | R | 1.8 U | 2 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 6.7 U | 1.3 U | 5.8 U | 1.3 U | 1.1 U | 5.6 U | 1.4 U | 1.4 UJ | 1.3 U | 1.4 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 580 U | 150 J | 510 U | 150 J | 110 J | 490 U | 120 U | 120 U | 150 J | 130 U | 96 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 6.1 J | 13 U | 17 | 11 U | 13 | 11 | 11 U | 7.2 J | 7.2 J | 9.8 J | 8.4 J | 8.1 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 9.1 U | 1.7 U | 7.9 U | 1.8 U | 1.5 U | 7.6 U | 1.9 U | 1.8 U | 1.8 U | 2 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 12 U | 2.2 U | 10 U | 2.2 U | 1.9 U | 9.6 U | 2.4 U | 2.3 U | 2.2 U | 2.5 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 16 U | 3 U | 14 U | 3 U | 2.6 U | 14 U | 3.2 U | 3.2 U | 3 U | 3.3 U | 2.6 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G705 | LW3-G706 | LW3-G707 | LW3-G710 | LW3-G711 | LW3-G713 | LW3-G715 | LW3-G716 | LW3-G717 | LW3-G718 | LW3-G719 | LW3-G720 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 28 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 25 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 2.3 J | 7.9 U | 2.2 J | 6.8 U | 3.2 J | 3.8 J | 6.6 U | 2 J | 2.1 J | 2.2 J | 2.4 J | 1.4 J |
| Dibenzofuran | 132-64-9 | ug/kg | 1.3 J | 2.2 J | 1.6 J | 1.3 J | 2 J | 3.8 | 1.2 J | 1.3 J | 2 J | 1.7 J | 1.4 J | 1.2 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.2 U | 0.33 U | 0.14 U | 0.21 U | 0.33 J | 0.068 U | 0.15 U | 0.25 U | 0.24 U | 0.14 J | 0.26 U | 0.068 UJ |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 16 U | 2.9 U | 0.46 J | 0.26 U | 0.14 U | 0.23 | 3.1 U | 0.29 J | 0.16 U | 3.2 U | 0.2 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 180 U | 33 U | 160 U | 33 U | 29 U | 150 U | 36 U | 35 U | 34 U | 37 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.2 U | 0.18 U | 0.17 U | 0.19 U | 0.16 U | 0.16 U | 0.2 UJ | 0.2 U | 0.19 U | 0.26 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 6.1 U | 1.2 U | 5.3 U | 1.2 U | 1 U | 5.1 U | 1.3 U | 1.2 U | 1.2 U | 1.3 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 14 U | 2.5 U | 12 U | 2.5 U | 2.2 U | 12 U | 2.7 U | 2.7 U | 2.6 U | 2.8 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 37 U | 6.9 U | 32 U | 7 U | 6.1 U | 31 U | 7.4 U | 7.4 UJ | 7 U | 7.8 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 9.7 U | 1.8 U | 8.4 U | 1.9 U | 1.6 U | 8.1 U | 2 U | 2 U | 1.9 U | 2.1 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 15 U | 2.7 U | 13 U | 2.8 U | 2.4 U | 13 U | 3 U | 2.9 U | 2.8 U | 3.1 U | 2.4 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G722 | LW3-G725 | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G736 | LW3-G737 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 29 | 0 - 29 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 3.3 U | 23 U | 12 U | 8.5 U | 2.6 U | 9.3 U | 32 U | 28 U | 28 U | 7.1 U | 1.4 U | 3.5 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 5.2 U | 3.3 U | 1.5 U | 1.5 U | 4.1 U | 3.2 U | 1.6 U | 1.5 U | 6.2 U | 5.6 U | 8.7 U | 4.9 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 8.5 U | 33 U | 16 U | 8.5 U | 9.4 U | 12 U | 9.6 U | 14 U | 48 U | 40 U | 7.9 U | 9.2 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.7 U | 12 U | 5.8 U | 3.3 U | 2.9 U | 8 U | 5.5 U | 5.6 U | 17 U | 9.2 U | 2.1 U | 1.6 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.7 U | 1.7 U | 1.5 U | 7.5 U | 2.4 U | 8.2 U | 22 U | 13 U | 15 U | 7.1 U | 1.4 U | 1.6 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 6.4 | 6.5 | 7.7 | 3.9 U | 1.3 U | 17 | 5.8 U | 3.9 U | 5.4 U | 9 U | 4.7 | 6 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 7.4 | 6.8 | 5 J | 3.4 U | 1.3 U | 16 | 3.4 U | 4.7 U | 4.7 U | 14 | 5.7 | 11 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.7 U | 1.7 U | 1.5 U | 3 U | 1.3 U | 1.3 U | 3.1 U | 4.8 U | 3.5 U | 1.5 U | 1.4 U | 1.6 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 1.3 U | 1.3 U | 1.6 U | 1.5 U | 1.6 U | 1.5 U | 1.4 U | 1.6 U |
| Aroclors | 12767-79-2 | ug/kg | 13.8 T | 13.3 T | 12.7 JT | 8.5 UT | 9.4 UT | 33 T | 32 UT | 28 UT | 48 UT | 14 T | 10.4 T | 17 T |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 94 | | | | | | | | | | 116 | 170 |
| Specific Gravity | SPEC_GRAV | NA | 1.34 | 1.32 | 1.37 | 1.36 | 1.56 | 1.73 | 1.31 | 1.35 | 1.29 | 1.36 | 1.41 | 1.35 |
| Sulfide | 18496-25-8 | mg/kg | 2.5 J | | | | | | | | | | 0.5 UJ | 0.5 UJ |
| Total organic carbon | TOC | percent | 2.05 | 2.55 | 1.82 | 1.87 | 0.37 | 0.69 | 1.92 | 1.87 | 2.16 | 1.93 | 1.75 | 2.26 |
| Total solids | TSO | percent | 40.1 | 39.6 | 45.9 | 44.7 | 71.4 | 68.6 | 41.6 | 43.4 | 40.6 | 44.1 | 48.1 | 42.5 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.211 J | 1.06 | | 0.494 J | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 0.191 J | 0.926 J | | 0.252 J | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 1.39 J | 6.29 | | 3.24 J | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 10.9 | 36.9 | | 23.4 | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 44.4 | 156 | | 87.1 | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 0.256 J | 1.21 | | 0.427 J | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 0.603 J | 2.03 J | | 2.49 J | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 2.39 J | 4.48 | | 4.36 | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 2.72 J | 9.32 | | 5.7 | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 3.38 J | 14 | | 8.24 | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | 66.4 JT | 232 JT | | 136 JT | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.0311 U | 0.0942 U | | 0.0112 U | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.0482 U | 0.163 J | | 0.0777 U | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.0489 U | 0.209 J | | 0.104 U | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 0.181 J | 0.805 J | | 0.449 J | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 0.158 J | 0.64 J | | 0.313 J | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 3.89 J | 16.5 | | 9.34 | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.13 U | 0.16 J | | 0.117 J | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.0175 U | 0.0673 J | | 0.731 J | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.0185 U | 0.102 J | | 0.192 J | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 0.0427 U | 0.265 J | | 2.17 J | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.0595 U | 0.133 U | | 0.67 J | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.081 U | 0.0423 U | | 0.0353 U | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.0641 U | 0.203 J | | 0.192 J | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 0.604 J | 2.61 J | | 1.8 J | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.123 U | 0.19 J | | 0.209 J | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 0.0932 JT | 0.668 JT | | 0.613 JT | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.0932 JA | 0.668 JA | | 0.871 JT | | | 0.254 JA | 0.221 JA | | | | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.22 | 0.55 | 0.13 | 0.5 | 6.57 | 0.83 | 0.15 | 0.46 | 0.26 | 0.08 | 0.03 | 0.19 |
| Fine gravel | GS_FG | percent | 1.32 | 1.45 | 0.98 | 0.98 | 1.26 | 2.13 | 0.62 | 1.69 | 2.43 | 2.2 | 0.37 | 0.9 |
| Very coarse sand | GS_VCS | percent | 1.12 | 1.57 | 1.51 | 1.17 | 2.04 | 2.69 | 1.28 | 1.21 | 1.92 | 1.19 | 0.71 | 0.86 |
| Coarse sand | GS_CS | percent | 0.63 | 0.97 | 1.1 | 1.04 | 23.1 | 13.4 | 0.99 | 0.7 | 0.96 | 1.01 | 0.9 | 0.55 |
| Medium sand | GS_MS | percent | 0.6 | 1.03 | 1.11 | 1.43 | 49.5 | 30.3 | 0.88 | 0.96 | 1.16 | 2.68 | 1.11 | 0.76 |
| Fine sand | GS_FS | percent | 1.49 | 3.59 | 8.6 | 15.3 | 8.28 | 21.2 | 6.34 | 6.47 | 22.8 | 14.9 | 8.59 | 3.18 |
| Very fine sand | GS_VFS | percent | 8.62 | 12.9 | 29.1 | 22.7 | 1.17 | 14.7 | 22.3 | 21.5 | 18.5 | 23.4 | 29.7 | 16.5 |
| Fines | GS_FINES | percent | 89 T | 81.2 T | 61.3 T | 58.6 T | 9.21 T | 16.1 T | 69.5 T | 68 T | 56 T | 56.8 T | 59.5 T | 78.5 T |
| Coarse silt | GS_CSILT | percent | 39 | 37.4 | 30 | 30.8 | 1.85 | 8.14 | 39 | 37.4 | 32 | 26.1 | 27.9 | 32 |
| Medium silt | GS_MSILT | percent | 22.9 | 20.4 | 14.6 | 12.6 | 2.85 | 2.93 | 13.3 | 13.4 | 11.3 | 14.1 | 13.3 | 18.8 |
| Fine silt | GS_FSILT | percent | 10.4 | 10.5 | 6.92 | 6.49 | 1.79 | 1.84 | 7.91 | 7.63 | 5.45 | 6.99 | 7.01 | 10.4 |
| Very fine silt | GS_VFSILT | percent | 6.93 | 2.91 | 2.27 | 1.77 | 1.22 | 0.74 | 2.31 | 2.51 | 1.83 | 1.91 | 4.65 | 6.54 |
| 8-9 Phi clay | GS_CCLAY | percent | 4.28 | 5.11 | 3.95 | 3.75 | 0.86 | 1.43 | 3.63 | 3.57 | 3.26 | 4.31 | 2.57 | 4.02 |
| >9 Phi clay | GS_MFCLAY | percent | 5.53 | 4.83 | 3.6 | 3.14 | 0.64 | 1.01 | 3.32 | 3.5 | 2.15 | 3.38 | 4.09 | 6.71 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G722 | LW3-G725 | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G736 | LW3-G737 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 29 | 0 - 29 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 29900 | 33600 | 29400 | 29800 | 12900 | 13700 | 28500 | 28600 | 29100 | 27700 | 27600 | 33200 |
| Antimony | 7440-36-0 | mg/kg | 0.15 J | 0.25 J | 0.2 J | 0.21 J | 0.15 J | 0.19 J | 0.24 J | 0.22 J | 0.22 J | 0.19 J | 0.11 J | 0.12 J |
| Arsenic | 7440-38-2 | mg/kg | 3.42 J | 5.07 | 4.46 | 4.51 | 2.52 | 3.94 | 4.3 | 4.22 | 4.56 | 4.04 | 3.11 J | 3.68 J |
| Cadmium | 7440-43-9 | mg/kg | 0.194 | 0.213 J | 0.162 J | 0.167 J | 0.057 J | 0.147 J | 0.169 J | 0.16 J | 0.162 J | 0.16 J | 0.161 | 0.174 |
| Chromium | 7440-47-3 | mg/kg | 27.6 | 33.7 | 29.6 | 28.1 | 13.3 | 16 | 26.9 | 26.2 | 27.7 | 26.3 | 26.4 | 28.9 |
| Copper | 7440-50-8 | mg/kg | 39.4 | 43.3 | 35.1 | 40.5 | 15.5 | 21.4 | 35.2 | 33.6 | 33.6 | 32 | 33.6 | 37.4 |
| Lead | 7439-92-1 | mg/kg | 11 | 11.4 | 9.33 | 12 | 3.63 | 16.4 | 9.86 | 9.07 | 9.39 | 9.37 | 8.3 | 9.5 |
| Mercury | 7439-97-6 | mg/kg | 0.056 | 0.061 | 0.046 | 0.07 | 0.018 | 0.091 | 0.054 | 0.049 | 0.044 | 0.053 | 0.047 | 0.053 |
| Nickel | 7440-02-0 | mg/kg | 22.9 | 25.9 | 24.1 | 23.3 | 15.1 | 17.7 | 23.1 | 22.2 | 23 | 21.5 | 23 | 24.1 |
| Silver | 7440-22-4 | mg/kg | 0.181 | 0.18 | 0.13 | 0.15 | 0.07 | 0.12 | 0.15 | 0.16 | 0.15 | 0.14 | 0.128 | 0.175 |
| Zinc | 7440-66-6 | mg/kg | 109 | 116 | 95.1 | 102 | 61.1 | 96.1 | 102 | 98.8 | 98.8 | 98.6 | 88.7 | 103 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.5 J | 1.5 J | 1.4 J | 0.84 J | 0.36 J | 1.1 J | 1.5 J | 1.5 J | 1.3 J | 12 | 1.3 J | 2.9 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 2.4 J | 2.4 J | 1.9 J | 0.98 J | 0.52 J | 2 J | 2 J | 1.8 J | 1.9 J | 23 | 2.1 J | 4.5 |
| Acenaphthene | 83-32-9 | ug/kg | 1.5 J | 1.7 J | 1.5 J | 1.9 J | 0.28 J | 1.1 J | 1.8 J | 2.5 J | 1.4 J | 21 | 2.5 J | 3.4 |
| Acenaphthylene | 208-96-8 | ug/kg | 2.6 J | 2.6 J | 2.1 J | 1.3 J | 0.44 J | 2.1 J | 2.2 J | 2.1 J | 2.6 J | 6.2 | 1.7 J | 3.7 |
| Anthracene | 120-12-7 | ug/kg | 3.3 | 4.1 | 3.8 | 7.1 | 0.47 U | 7.2 | 4.1 | 3.3 | 4.5 | 40 | 3.9 | 5.5 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 11 | 16 | 14 | 13 | 1.7 J | 15 | 14 | 10 | 16 | 170 | 11 | 15 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 13 | 18 | 14 | 12 | 1.3 J | 17 | 13 | 11 | 17 | 73 | 11 | 16 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 19 | 27 | 19 | 16 | 2.8 | 22 | 20 | 16 | 24 | 140 | 14 | 22 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 13 | 17 | 12 | 9.5 | 2.2 J | 16 | 12 | 9.5 | 15 | 60 | 8.8 | 15 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 13 | 19 | 12 | 10 | 1.6 J | 15 | 12 | 9.6 | 15 | 29 | 8 | 16 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 5.6 | 8.6 | 6 | 5 | 1 J | 7.3 | 6.1 | 4.8 | 6.9 | 43 | 4.6 | 7.4 |
| Chrysene | 218-01-9 | ug/kg | 19 | 24 | 21 | 16 | 2.2 J | 19 | 19 | 14 | 22 | 210 | 14 | 23 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 1.9 J | 2.5 J | 1.8 J | 1.5 J | 0.28 U | 2.5 | 2 J | 1.5 J | 2.3 J | 7.6 | 1.5 J | 2.4 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 1.1 J | 1 J | 0.98 J | 0.89 J | 0.21 U | 0.96 J | 1.1 J | 0.88 J | 1.1 J | 7.8 | 1.3 J | 1.7 J |
| Fluoranthene | 206-44-0 | ug/kg | 36 | 40 | 38 | 37 | 4.5 | 26 | 30 | 25 | 39 | 190 | 29 | 44 |
| Fluorene | 86-73-7 | ug/kg | 2.5 J | 2.2 J | 1.8 J | 2.4 J | 0.5 U | 1.4 J | 2.1 J | 2.6 J | 1.7 J | 23 | 3.1 | 4.2 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 10 | 17 | 11 | 9.8 | 1.5 J | 12 | 10 | 8.4 | 13 | 33 | 7 | 13 |
| Naphthalene | 91-20-3 | ug/kg | 8 | 8.1 | 6.8 | 3.4 | 2 J | 4.9 | 7.9 | 6 | 7.5 | 67 | 5.5 | 16 |
| Perylene | 198-55-0 | ug/kg | 31 | 20 | 17 | 8.6 | 0.32 U | 41 | 14 | 12 | 13 | 31 | 12 | 26 |
| Phenanthrene | 85-01-8 | ug/kg | 15 | 19 | 16 | 23 | 2.3 J | 15 | 17 | 15 | 20 | 130 | 19 | 24 |
| Pyrene | 129-00-0 | ug/kg | 36 | 43 | 38 | 32 | 5.1 | 39 | 32 | 25 | 38 | 150 | 27 | 44 |
| High Molecular Weight PAH | HPAH | ug/kg | 160 JT | 220 JT | 170 JT | 150 JT | 22 JT | 170 T | 160 JT | 130 JT | 190 JT | 1000 T | 130 JT | 200 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 35 JT | 40 JT | 34 JT | 40 JT | 5.5 JT | 34 JT | 37 JT | 33 JT | 40 JT | 310 T | 38 JT | 61 T |
| Total PAHs | 130498-29-2 | ug/kg | 200 JT | 260 JT | 210 JT | 190 JT | 27 JT | 210 JT | 200 JT | 160 JT | 230 JT | 1400 T | 160 JT | 260 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 41 | 35 J | 22 J | 12 J | 2.4 J | 21 | 19 J | 15 J | 26 J | 110 | 23 | 37 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 4 | 3.7 | 1.7 J | 1.6 J | 0.21 U | 4.3 | 1.9 J | 1.6 J | 2.6 J | 7.2 | 3.9 | 4.5 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 26 | 25 | 24 | 16 | 3.7 | 24 | 22 | 17 | 27 | 200 | 18 | 26 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 2.9 J | 3.3 | 2.5 J | 2 J | 0.6 J | 2.6 | 2.4 J | 2.2 J | 2.8 J | 11 | 2.8 | 4.3 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 8.6 | 15 | 15 | 8.7 | 2 J | 14 | 10 | 8.8 | 13 | 78 | 8.5 | 13 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 19 | 15 | 13 | 9.1 | 0.25 U | 26 | 14 | 8.1 | 20 | 43 | 16 | 21 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 5.9 | 6.9 | 5.7 | 3.1 | 0.21 U | 7.7 | 5 | 3.4 | 6.9 | 16 | 4 | 7.6 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 23 | 22 | 15 | 9.4 | 0.61 U | 19 | 15 | 11 | 24 | 80 | 16 | 20 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 6.4 | 6.6 | 5.1 | 3.4 | 1.1 J | 4.6 | 5 | 3.1 | 6.1 | 16 | 3.7 | 7.1 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 4.2 | 4.2 | 3.9 | 2 J | 1 J | 3.7 | 3.5 | 3.7 | 3 J | 25 | 3.6 | 5.6 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 22 | 14 | 13 | 7.5 | 1.9 J | 16 | 11 | 8.7 | 15 | 57 | 18 | 25 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 19 | 15 | 13 | 6.2 | 0.25 U | 27 | 12 | 8.4 | 24 | 26 | 11 | 16 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 7.8 | 7.8 | 4.8 | 3.1 | 0.21 U | 8.4 | 5.5 | 3.4 | 9 | 17 | 5.6 | 16 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 16 | 13 | 10 | 5.7 | 0.61 U | 23 | 10 | 8.1 | 19 | 38 | 11 | 13 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 8.5 | 9.1 | 6.2 | 4.8 | 0.5 U | 12 | 7.1 | 4.2 | 11 | 21 | 5.1 | 8.1 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 3.9 | 4.7 | 3.4 | 2.4 J | 0.66 J | 3.1 | 3.2 | 3.2 | 3.3 | 15 | 3.2 | 5.6 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 16 | 16 | 13 | 6.7 | 1.7 J | 27 | 13 | 9.2 | 23 | 47 | 20 | 40 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 21 | 0.25 U | 0.25 U | 0.25 U | 12 | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 6 | 6.2 | 4.1 | 3.4 | 0.37 U | 7.3 | 4.2 | 3.8 | 5 | 15 | 4.3 | 6.2 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 18 | 12 | 6.6 | 4.3 | 0.75 U | 13 | 8.5 | 6.1 | 18 | 22 | 10 | 22 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | 4.98 U | | | 4.95 U | 5.62 | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | 5.03 | | | 5.6 | 5.96 | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | 4.98 U | | | 4.95 U | 6.11 | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | 16.8 | | | 11.2 | 15.8 | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | 25.2 | | | 27.3 | 29.3 | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | 9.96 U | | | 9.91 U | 9.89 U | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | 9.96 U | | | 9.91 U | 9.89 U | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G722 | LW3-G725 | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G736 | LW3-G737 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 29 | 0 - 29 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | 132 | | | 141 | 140 | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | 9.96 U | | | 9.91 U | 9.89 U | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | 9.96 U | | | 9.91 U | 9.89 U | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | 29.7 | | | 30.3 | 32 | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | 31 | | | 30.9 | 31.5 | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | 24 | | | 23.2 | 24.7 | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | 44.6 | | | 45.7 | 44.8 | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | 19.7 | | | 11.4 | 18.2 | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | 40.2 | | | 43.8 | 45.3 | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | 26.4 | | | 29 | 30.3 | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | 5.8 | | | 4.95 U | 5.48 | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | 10.9 | | | 13.6 | 12.9 | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | 17 | | | 19.7 | 20.4 | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | 89.4 | | | 93.5 | 103 | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | 70.5 | | | 84.9 | 80.2 | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | 33.2 | | | 32.8 | 32.9 | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | 16.4 | | | 4.95 U | 16.4 | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | 99.8 | | | 93.1 | 86.3 | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | 31.9 | | | 30.6 | 29.3 | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | 113 | | | 101 | 100 | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | 110 | | | 100 | 96.9 | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | 11 | | | 11.7 | 10.6 | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | 6.16 | | | 5.87 | 5.25 | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | 61.1 | | | 47.9 | 47.9 | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | 18.1 | | | 18.9 | 18.1 | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | 16.7 | | | 11.3 | 12.2 | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | 156 | | | 137 | 138 | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | 28.3 | | | 21.5 | 24 | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | 65.7 | | | 64.5 | 64.8 | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | 155 | | | 150 | 147 | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | 117 | | | 115 | 114 | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | 54.1 | | | 52.4 | 50.3 | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | 15.5 | | | 15.4 | 15.5 | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | 0.666 J | | | 0.693 J | 1.33 U | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | 22.7 | | | 21.5 | 22.1 | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | 107 | | | 87.1 | 90.2 | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | 45 | | | 41.7 | 41 | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | 90.3 | | | 75.1 | 77.6 | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | 48.7 | | | 39.9 | 37.9 | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | 301 | | | 256 | 262 | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G722 | LW3-G725 | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G736 | LW3-G737 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 29 | 0 - 29 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | 230 | | | 191 | 182 | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | 70.9 | | | 59.9 | 57.7 | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | 127 | | | 114 | 113 | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | 6.81 | | | 4.96 | 4.95 | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | 7.38 | | | 5.91 | 5.45 | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | 84.2 | | | 77.1 | 76.6 | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | 234 | | | 221 | 214 | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | 17.7 | | | 16.8 | 16.5 | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | 11.3 | | | 9.77 | 9.68 | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | 340 | | | 293 | 293 | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | 4.1 J | | | 4.9 J | 3.36 U | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | 9.76 | | | 7.52 | 8.28 | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | 4.7 J | | | 4.46 J | 4.23 J | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | 9.27 | | | 8.56 | 9.17 | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | 2.45 J | | | 2.2 J | 2.09 J | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | 49.9 | | | 45.7 | 45.4 | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | 13.1 | | | 11.2 | 11.8 | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | 28.5 | | | 25.7 | 23.6 | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | 97.5 | | | 87.2 | 87.2 | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | 10.6 | | | 10.3 | 10.2 | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | 16.9 | | | 14.6 | 14.9 | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | 65.6 | | | 54.8 | 55.2 | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | 60 | | | 49.7 | 52 | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | 14.6 | | | 12.9 | 12.5 | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | 401 | | | 363 | 354 | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | 412 | | | 353 | 351 | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | 75 | | | 67.5 | 65.1 | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | 19.6 | | | 17.5 | 17.6 | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | 66.8 | | | 65 | 61.2 | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | 15.7 | | | 10.9 | 11.3 | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | 122 | | | 104 | 104 | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | 405 | | | 361 | 358 | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | 12.1 | | | 9.93 | 9.5 | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | 31.9 | | | 28.6 | 27.9 | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | 6.73 | | | 6.55 | 6.66 | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | 39.4 | | | 36 | 34.9 | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | 14.5 | | | 13.4 | 13.2 | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | 0.878 U | | | 0.726 J | 0.586 U | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | 112 | | | 107 | 103 | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | 30.3 | | | 26.8 | 25.8 | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | 21.5 | | | 19.4 | 19.1 | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | 143 | | | 142 | 125 | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | 6.96 | | | 5.89 | 5.89 | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | 20.4 | | | 18.7 | 18.1 | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | 78.3 | | | 73.7 | 70.1 | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | 35.5 | | | 32.8 | 30.7 | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G722 | LW3-G725 | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G736 | LW3-G737 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 29 | 0 - 29 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | 69.4 | | | 65.8 | 63.9 | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | 299 | | | 276 | 267 | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | 211 | | | 198 | 192 | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | 80.4 | | | 76.9 | 72.6 | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | 14.4 | | | 14.7 | 13 | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | 4.44 J | | | 4.58 J | 4.09 J | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | 25.6 | | | 24.5 | 23.4 | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | 5.3 | | | 4.95 U | 4.94 U | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | 15.6 | | | 14 | 14 | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | 69.8 | | | 68.3 | 67.7 | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | 28.8 | | | 27.4 | 25.9 | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | 104 | | | 105 | 96.4 | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | 5.34 | | | 5.23 | 5.41 | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | 102 | | | 102 | 97.5 | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | 12.2 | | | 11.4 | 11.3 | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | 10.5 | | | 10.2 | 10.1 | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | 16.3 | | | 17.5 | 16.7 | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | 4.98 U | | | 4.95 U | 4.94 U | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | 38.9 | | | 42.2 | 41.8 | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | 4.98 U | | | 5.11 | 5.46 | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | 12 | | | 13.5 | 13.1 | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | 45.9 | | | 45 | 51 | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | 7070 JT | | | 6470 JT | 6410 JT | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | 0.258 JT | | | 0.254 JT | 0.221 JT | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | 5.03 T | | | 5.6 T | 17.7 T | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | 204 T | | | 210 T | 217 T | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | 413 T | | | 429 T | 450 T | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | 1080 JT | | | 977 JT | 977 T | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | 1770 JT | | | 1540 JT | 1530 JT | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | 1980 T | | | 1750 JT | 1730 T | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | 1170 JT | | | 1100 JT | 1050 JT | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | 349 T | | | 347 T | 331 T | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | 50.9 T | | | 60.8 T | 60.4 T | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.43 U | 0.21 U | 2 U | 1.7 U | 0.16 U | 0.54 U | 1.1 U | 0.98 U | 0.24 U | 0.61 U | 2.1 U | 0.9 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.22 U | 0.058 U | 0.05 U | 0.14 U | 0.046 U | 0.41 U | 0.055 U | 0.23 U | 0.25 U | 0.23 U | 0.048 U | 0.56 J |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.43 J | 0.53 U | 0.41 U | 0.41 U | 0.096 U | 1.6 J | 0.38 U | 0.26 U | 0.33 U | 2.1 NJ | 0.3 | 2 J |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.93 | 1.2 | 0.75 | 0.61 | 0.11 J | 0.47 | 0.85 | 0.79 | 0.67 | 0.76 | 0.65 | 1.5 U |
| 4,4'-DDE | 72-55-9 | ug/kg | 2.2 J | 2.3 | 1.5 | 1.2 | 0.21 J | 1.2 NJ | 1.4 | 1.2 | 1.2 | 1.4 | 1.5 | 3 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.69 U | 0.83 U | 1.3 J | 0.43 U | 0.92 NJ | 2 | 0.22 U | 0.43 U | 0.47 U | 1.6 | 1.1 NJ | 2.4 U |
| Aldrin | 309-00-2 | ug/kg | 0.52 U | 0.62 U | 0.52 U | 0.38 U | 0.12 U | 0.12 U | 0.48 U | 0.25 U | 0.37 U | 0.55 U | 0.44 U | 1.1 |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.29 | 0.18 U | 0.46 U | 0.15 U | 0.037 U | 0.084 U | 0.27 | 0.16 U | 0.3 NJ | 0.15 U | 0.25 J | 0.27 |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.13 U | 0.13 U | 0.11 U | 0.11 U | 0.097 U | 0.097 U | 0.12 U | 0.12 U | 0.12 U | 0.11 U | 0.13 U | 0.12 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.11 U | 0.039 U | 0.034 U | 0.32 U | 0.031 U | 0.46 NJ | 0.037 U | 0.036 U | 0.038 U | 0.15 U | 0.074 U | 0.3 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.18 U | 0.18 U | 0.16 U | 0.16 U | 0.14 U | 0.14 U | 0.17 U | 0.16 U | 0.18 U | 0.16 U | 0.16 J | 0.17 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.18 U | 0.067 U | 0.066 U | 0.19 U | 0.031 U | 0.037 U | 0.14 U | 0.097 U | 0.057 U | 0.27 NJ | 0.12 J | 0.18 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.43 U | 0.53 U | 0.34 U | 0.29 U | 0.087 U | 1.2 U | 0.32 U | 0.3 U | 0.32 U | 0.83 U | 0.25 U | 1.5 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.14 U | 0.14 U | 0.12 U | 0.13 U | 0.11 U | 0.11 U | 0.13 U | 0.13 U | 0.14 U | 0.13 U | 0.12 U | 0.13 U |
| Dieldrin | 60-57-1 | ug/kg | 0.19 U | 0.47 | 0.26 U | 0.3 NJ | 0.1 J | 0.2 U | 0.26 J | 0.28 J | 0.33 J | 0.28 U | 0.032 U | 0.036 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.25 U | 0.26 U | 0.22 U | 0.23 U | 0.058 U | 0.058 U | 0.38 U | 0.23 U | 0.32 U | 0.23 U | 0.28 U | 0.24 U |
| Endrin | 72-20-8 | ug/kg | 0.089 U | 0.11 U | 0.22 U | 0.23 U | 0.071 U | 0.2 U | 0.16 U | 0.16 U | 0.25 U | 0.3 U | 0.074 U | 0.24 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.053 UJ | 0.2 U | 0.22 U | 0.047 U | 0.042 U | 0.2 U | 0.05 U | 0.23 U | 0.052 U | 0.047 U | 0.21 UJ | 0.24 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.5 NJ | 0.22 U | 0.26 U | 0.34 J | 0.029 U | 0.26 U | 0.21 U | 0.21 U | 0.32 U | 0.33 U | 0.33 J | 1.2 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.25 U | 0.078 U | 0.22 U | 0.069 U | 0.062 U | 0.2 U | 0.073 U | 0.23 U | 0.25 U | 0.27 U | 0.21 U | 0.24 U |
| Heptachlor | 76-44-8 | ug/kg | 0.095 U | 0.096 U | 0.083 U | 0.23 U | 0.076 U | 0.16 J | 0.09 U | 0.087 U | 0.094 U | 0.085 U | 0.079 U | 0.18 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.25 U | 0.26 U | 0.22 U | 0.23 U | 0.068 U | 0.2 U | 0.24 U | 0.23 U | 0.25 U | 0.23 U | 0.071 U | 0.29 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.39 U | 0.59 U | 0.44 U | 0.35 U | 0.094 U | 0.24 U | 0.43 U | 0.36 U | 0.25 U | 0.42 U | 0.25 U | 0.98 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G722 | LW3-G725 | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G736 | LW3-G737 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 29 | 0 - 29 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.15 U | 0.16 U | 0.13 U | 0.14 U | 0.12 U | 0.12 U | 0.15 U | 0.14 U | 0.15 U | 0.14 U | 0.13 U | 0.15 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.17 U | 0.4 U | 0.66 U | 1.2 U | 0.061 U | 0.061 U | 0.45 U | 0.07 U | 0.53 U | 0.16 NJ | 0.31 U | 0.39 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.41 JT | 0.68 JT | 0.82 JT | 0.25 T | 0.057 JT | 1.2 UT | 0.44 JT | 0.61 JT | 0.3 T | 1.3 JT | 0.47 JT | 0.85 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.29 T | 0.26 UT | 0.46 UT | 0.32 UT | 0.058 UT | 0.46 JT | 0.27 T | 0.23 UT | 0.3 JT | 0.23 UT | 0.25 JT | 0.27 T |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.93 T | 1.2 T | 0.75 T | 0.61 T | 0.11 JT | 0.47 T | 0.85 T | 0.79 T | 0.67 T | 0.76 T | 0.65 T | 1.5 UT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 3.6 JT | 3.5 T | 3.6 JT | 1.8 T | 1.2 JT | 5.3 JT | 2.3 T | 2 T | 1.9 T | 5.9 JT | 3.6 JT | 5.6 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 2.2 JT | 2.3 T | 1.5 T | 1.2 T | 0.21 JT | 1.2 JT | 1.4 T | 1.2 T | 1.2 T | 1.4 T | 1.5 T | 3.6 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.43 JT | 0.83 UT | 1.3 JT | 0.43 UT | 0.92 JT | 3.6 JT | 0.38 UT | 0.43 UT | 0.47 UT | 3.7 JT | 1.4 JT | 2 JT |
| Toxaphene | 8001-35-2 | ug/kg | 23 U | 29 U | 19 U | 16 U | 3.4 U | 28 U | 24 U | 20 U | 22 U | 20 U | 22 U | 39 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.41 J | 0.47 J | 0.42 | 0.25 | 0.057 J | 0.2 U | 0.25 NJ | 0.44 NJ | 0.3 | 0.56 | 0.35 J | 0.67 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.19 U | 0.21 J | 0.4 NJ | 0.13 U | 0.034 U | 0.074 U | 0.19 J | 0.17 J | 0.18 U | 0.26 NJ | 0.13 U | 0.18 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 69.6 JT | 86 J | 56 J | 49 J | 11 J | 320 J | 55 J | 53 J | 68.9 JT | 64 J | 37 J | 56 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 54 JT | 46 J | 27 J | 28 J | 5.7 U | 170 J | 34 J | 35 J | 35 JT | 37 J | 27 J | 43 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 523 JT | 620 J | 400 J | 370 J | 58 J | 810 J | 400 J | 390 J | 453 JT | 440 J | 360 J | 440 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 220 JT | 210 J | 130 J | 130 J | 27 J | 360 J | 170 J | 160 J | 165 JT | 160 J | 120 J | 180 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 593 JA | 706 JA | 456 JA | 419 JA | 69 JA | 1130 JA | 455 JA | 443 JA | 522 JA | 504 JA | 397 JA | 496 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 274 JA | 256 JA | 157 JA | 158 JA | 27 JA | 530 JA | 204 JA | 195 JA | 200 JA | 197 JA | 147 JA | 223 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.53 U | 0.51 U | 0.46 U | 0.45 U | 0.3 U | 0.31 U | 0.5 U | 0.48 U | 0.52 U | 0.48 U | 0.44 U | 0.49 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.43 U | 0.42 U | 0.37 U | 0.37 U | 0.24 U | 0.25 U | 0.41 U | 0.39 U | 0.42 U | 0.39 U | 0.35 U | 0.4 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.8 U | 1.4 U | 1.2 U | 1.2 U | 0.77 U | 0.8 U | 1.4 U | 1.3 U | 1.4 U | 1.3 U | 1.2 U | 5.4 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.28 U | 0.27 U | 0.24 U | 0.24 U | 0.16 U | 0.2 U | 0.27 U | 0.25 U | 0.27 U | 0.25 U | 0.23 U | 0.26 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.3 U | 6.3 U | 1.1 U | 1.2 U | 1 U | 1 U | 6 U | 1.2 U | 6.1 U | 5.7 U | 1.1 U | 5.9 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 6.9 U | 35 U | 6 U | 6.2 U | 5.5 U | 5.5 U | 33 U | 6.4 U | 34 U | 31 U | 5.8 U | 33 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 22 U | 110 U | 19 U | 19 U | 17 U | 17 U | 110 U | 20 U | 110 U | 96 U | 18 U | 100 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.5 U | 13 U | 2.2 U | 2.3 U | 2 U | 2 U | 12 U | 2.3 U | 13 U | 12 U | 2.1 U | 12 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.9 U | 9.5 U | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 1.6 U | 8.9 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.9 U | 9.5 U | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 1.6 U | 8.9 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.8 U | 8.8 U | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 8.4 U | 1.7 U | 8.6 U | 7.9 U | 1.5 U | 8.3 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.8 U | 8.8 U | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 8.4 U | 1.7 U | 8.6 U | 7.9 U | 1.5 U | 8.3 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 11 J | 20 J | 19 | 12 | 1.5 U | 4.4 J | 16 J | 11 J | 34 J | 44 J | 15 | 15 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 23 U | 120 U | 20 U | 21 U | 18 U | 18 U | 110 U | 21 U | 110 U | 110 U | 19 U | 110 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.4 U | 0.39 U | 0.35 U | 0.35 U | 1.6 NJ | 0.24 U | 0.38 U | 0.37 U | 0.4 U | 0.37 U | 0.33 U | 0.94 U |
| Phenol | 108-95-2 | ug/kg | 13 U | 13 U | 9.4 J | 4.6 J | 2.4 J | 3.3 J | 12 U | 5.8 J | 13 U | 12 U | 12 U | 26 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 200 | 200 | 100 | 76 | 33 | 55 | 210 | 110 | 230 | 290 | 75 | 170 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 4 U | 21 U | 3.5 U | 3.6 U | 3.2 U | 5.2 J | 20 U | 9.2 J | 20 U | 20 J | 15 | 19 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 29 | 50 U | 19 | 13 | 10 | 11 | 47 U | 17 | 49 U | 45 U | 15 | 47 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 7.7 U | 8.2 U | 3.8 J | 2.6 J | 2.2 J | 3 J | 7.8 U | 3.3 J | 8.4 J | 7.4 U | 4.4 U | 8.3 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.3 J | 6.3 U | 1.1 U | 1.2 U | 1 U | 1 U | 6 U | 2 J | 6.1 U | 5.7 U | 1.1 U | 5.9 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 2.2 U | 11 U | 1.9 U | 1.9 U | 1.7 U | 1.7 U | 11 U | 2 U | 11 U | 9.6 U | 1.8 U | 10 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 3.3 U | 17 U | 2.9 U | 2.9 U | 2.6 U | 2.6 U | 16 U | 3 U | 16 U | 15 U | 2.7 U | 16 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3.7 U | 19 U | 3.2 U | 3.3 U | 2.9 U | 2.9 U | 18 U | 3.4 U | 18 U | 17 U | 3.1 U | 18 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.8 U | 19 U | 3.3 U | 3.4 U | 3 U | 3 U | 18 U | 3.5 U | 19 U | 17 U | 3.2 U | 18 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3.7 U | 19 U | 3.2 U | 3.3 U | 2.9 U | 2.9 U | 18 U | 3.4 U | 18 U | 17 U | 3.1 U | 18 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.9 U | 9.5 U | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 1.6 U | 8.9 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.5 U | 13 U | 2.2 U | 2.3 U | 2 U | 2 U | 12 U | 2.3 U | 13 U | 12 U | 2.1 U | 12 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 2 U | 11 U | 1.8 U | 1.8 U | 1.6 U | 1.6 U | 83 | 1.9 U | 9.8 U | 9 U | 1.7 U | 9.5 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 4 U | 21 U | 3.5 U | 3.6 U | 3.2 U | 3.2 U | 20 U | 3.7 U | 20 U | 18 U | 3.4 U | 19 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 4.7 U | 24 U | 4.1 U | 4.2 U | 3.7 U | 3.7 U | 23 U | 4.3 U | 23 U | 21 U | 3.9 U | 22 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 3.2 U | 16 U | 2.8 U | 2.8 U | 2.5 U | 2.5 U | 15 U | 2.9 U | 16 U | 15 U | 2.6 U | 15 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 2 U | 11 U | 1.8 U | 1.8 U | 1.6 U | 1.6 U | 9.6 U | 1.9 U | 9.8 U | 9 U | 1.7 U | 9.5 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2.4 U | 12 U | 2.1 U | 2.2 U | 1.9 U | 1.9 U | 12 U | 2.2 U | 12 U | 11 U | 2 U | 12 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.8 U | 8.8 U | 1.6 U | 1.6 U | 1.4 U | 1.4 U | 8.4 U | 1.7 U | 8.6 U | 7.9 U | 1.5 U | 8.3 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 2.3 U | 12 U | 2 U | 2.1 U | 1.8 U | 1.8 U | 11 U | 2.1 U | 11 U | 11 U | 1.9 U | 11 U |
| Aniline | 62-53-3 | ug/kg | 1.9 U | 9.5 U | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 1.6 U | 8.9 U |
| Azobenzene | 103-33-3 | ug/kg | 1.4 U | 6.9 U | 1.2 U | 1.3 U | 1.1 U | 1.1 U | 6.6 U | 1.3 U | 6.7 U | 6.2 U | 1.2 U | 6.5 U |
| Benzoic acid | 65-85-0 | ug/kg | 190 J | 610 U | 120 J | 110 U | 96 U | 96 U | 580 U | 120 U | 590 U | 540 U | 150 J | 570 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 16 | 15 J | 11 | 28 | 4.2 J | 5.9 J | 13 U | 6.5 J | 13 U | 22 J | 17 | 19 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.9 U | 9.5 U | 1.7 U | 1.7 U | 1.5 U | 1.5 U | 9 U | 1.8 U | 9.2 U | 8.5 U | 1.6 U | 8.9 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2.4 U | 12 U | 2.1 U | 2.2 U | 1.9 U | 1.9 U | 12 U | 2.2 U | 12 U | 11 U | 2 U | 12 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 3.3 U | 17 U | 2.9 U | 2.9 U | 2.6 U | 2.6 U | 16 U | 3 U | 16 U | 15 U | 2.7 U | 16 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G722 | LW3-G725 | LW3-G727 | LW3-G729 | LW3-G730 | LW3-G731 | LW3-G732-1 | LW3-G732-2 | LW3-G734 | LW3-G735 | LW3-G736 | LW3-G737 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 28 | 0 - 29 | 0 - 29 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 2.4 J | 8.2 U | 3.1 J | 4.6 J | 1.3 U | 1.7 J | 7.8 U | 2.8 J | 8 U | 18 J | 2.2 J | 7.7 U |
| Dibenzofuran | 132-64-9 | ug/kg | 1.8 J | 1.9 J | 1.3 J | 1.2 J | 0.59 U | 1.2 J | 1.7 J | 1.9 J | 1.5 J | 29 | 2.2 J | 2.6 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.14 J | 0.26 U | 0.22 U | 0.23 U | 0.068 U | 0.11 J | 0.24 U | 0.23 U | 0.21 U | 0.23 U | 0.21 U | 0.4 J |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.18 U | 0.3 U | 0.16 U | 0.31 U | 0.14 U | 0.14 U | 0.36 | 0.35 U | 0.34 U | 0.23 U | 0.15 U | 0.17 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 37 U | 190 U | 32 U | 33 U | 29 U | 29 U | 180 U | 34 U | 180 U | 170 U | 31 U | 180 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.2 U | 0.21 U | 0.18 U | 0.18 U | 0.16 U | 0.16 U | 0.19 U | 0.19 U | 0.2 U | 0.18 U | 0.17 U | 0.19 U |
| Isophorone | 78-59-1 | ug/kg | 1.3 U | 6.3 U | 1.1 U | 1.2 U | 1 U | 1 U | 6 U | 1.2 U | 6.1 U | 5.7 U | 1.1 U | 5.9 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.8 U | 14 U | 2.4 U | 2.5 U | 2.2 U | 2.2 U | 14 U | 2.6 U | 14 U | 13 U | 2.3 U | 13 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 7.6 U | 39 U | 6.7 U | 6.8 U | 6.1 U | 6.1 U | 37 U | 7.1 U | 38 U | 35 U | 6.4 U | 36 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 2 U | 11 U | 1.8 U | 1.8 U | 1.6 U | 1.6 U | 9.6 U | 1.9 U | 9.8 U | 9 U | 1.7 U | 9.5 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 3 U | 16 U | 2.7 U | 2.7 U | 2.4 U | 2.4 U | 15 U | 2.8 U | 15 U | 14 U | 2.5 U | 15 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G738 | LW3-G739 | LW3-G740 | LW3-G741 | LW3-G742 | LW3-G743 | LW3-G744 | LW3-G745 | LW3-G746 | LW3-G747 | LW3-G748 | LW3-G750 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 28 | 0 - 22 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 1.4 U | 1.3 U | 8.7 U | 2.6 U | 2.7 U | 16 U | 18 U | 1.5 U | 1.3 U | 7 U | 1.4 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 1.4 U | 1.3 U | 5.3 U | 1.3 U | 1.3 U | 5.5 U | 1.5 U | 1.5 U | 1.3 U | 4.8 U | 1.4 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 1.4 U | 1.3 U | 21 U | 5.4 U | 2.9 U | 27 U | 30 U | 1.5 U | 1.3 U | 9.1 U | 1.4 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 190 | 28 | 39 | 3.2 U | 1.9 U | 1.8 U | 4.4 U | 12 U | 1.5 U | 1.3 U | 4.4 U | 1.4 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.5 U | 1.5 U | 1.5 U | 1.3 U | 1.3 U | 1.4 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 57 | 28 | 1.3 U | 5.3 | 3.1 U | 4.3 | 6.5 J | 7 | 1.5 U | 7.1 | 3.7 U | 5.1 J |
| Aroclor 1260 | 11096-82-5 | ug/kg | 100 | 67 | 190 | 7.2 | 3.4 U | 3.3 | 6.2 | 7 | 31 | 11 | 6.5 J | 9.2 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.5 U | 1.5 U | 1.5 U | 1.3 U | 1.3 U | 1.4 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.5 U | 1.5 U | 1.5 U | 1.3 U | 1.3 U | 1.4 U |
| Aroclors | 12767-79-2 | ug/kg | 347 T | 123 T | 229 T | 12.5 T | 5.4 UT | 7.6 T | 12.7 JT | 14 T | 31 T | 18.1 T | 6.5 JT | 14.3 JT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | 30.9 | 78.6 | | | 97.4 | 88 | 102 | | | 100 |
| Specific Gravity | SPEC_GRAV | NA | 1.83 | 1.47 | 1.53 | 1.44 | 1.6 | 1.93 | 1.39 | 1.41 | 1.63 | 1.74 | 1.48 | 1.68 |
| Sulfide | 18496-25-8 | mg/kg | | | 26.3 J | 0.5 UJ | | | 0.5 UJ | 0.5 UJ | 5.6 | 10.4 | | 9.1 |
| Total organic carbon | TOC | percent | 1.85 | 1.9 | 1.53 | 1.61 | 1.39 | 0.59 | 1.78 | 1.75 | 1.92 | 1.58 | 1.62 | 1.73 |
| Total solids | TSO | percent | 56.9 | 48.9 | 57.3 | 47.8 | 54.2 | 78.6 | 45.7 | 45.6 | 45 | 50.5 | 51.6 | 47.5 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.27 J | 0.452 J | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 0.994 J | 1.17 J | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 11.6 | 14.2 | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 76.9 | 91.4 | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 356 | 386 | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 0.589 J | 1.06 | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 2.81 J | 3.3 J | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 4.11 | 6.85 | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 13.6 | 14.7 | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 19.1 | 23.6 | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | 486 JT | 543 JT | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.0586 U | 0.0474 U | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.153 J | 0.238 J | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.185 J | 0.264 J | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 0.867 J | 1.33 J | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 0.845 J | 1 J | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 31.7 | 39.9 | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.0592 U | 0.129 U | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.0722 J | 0.0726 U | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.0962 J | 0.16 J | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 0.249 J | 0.52 J | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.244 J | 0.242 J | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0323 U | 0.0496 U | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.227 J | 0.299 J | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 4.05 | 3.83 | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.241 J | 0.325 J | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 0.918 JT | 1.21 JT | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 3.89 JT | 2.85 JT | 2.95 A | | | | | | | 0.36 JA | | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.26 | 0.36 | 0.39 T | 0.5 | 0 | 3.29 | 0.1 | 0.22 | 0.11 | 0.01 | 0.01 | 0.58 |
| Fine gravel | GS_FG | percent | 0.61 | 1.75 | 0.457 T | 0.64 | 0.21 | 9.7 | 0.59 | 1.04 | 0.52 | 0.39 | 0.06 | 1.37 |
| Very coarse sand | GS_VCS | percent | 1.1 | 1.41 | 0.93 T | 0.5 | 0.74 | 14.1 | 0.97 | 1.03 | 0.37 | 0.72 | 0.2 | 0.64 |
| Coarse sand | GS_CS | percent | 9.74 | 2.77 | 1.11 T | 0.28 | 0.5 | 21.5 | 0.42 | 0.63 | 0.25 | 3.04 | 1.44 | 0.71 |
| Medium sand | GS_MS | percent | 23.7 | 5.84 | 1.51 T | 0.44 | 0.6 | 21.6 | 0.53 | 1.02 | 0.58 | 12.1 | 6.25 | 2.19 |
| Fine sand | GS_FS | percent | 13.5 | 6.18 | 3.94 T | 9.35 | 8.52 | 12.4 | 5.18 | 8.25 | 5.92 | 18 | 21.1 | 18 |
| Very fine sand | GS_VFS | percent | 12.3 | 9.63 | 22.7 T | 30.1 | 35.1 | 6.62 | 20.3 | 22.7 | 19.6 | 14.1 | 15.9 | 25.6 |
| Fines | GS_FINES | percent | 47.6 T | 63.1 T | 70.4 T | 64.4 T | 49.5 T | 5.48 T | 67.7 T | 64.7 T | 71.3 T | 50.6 T | 53.9 T | 53.8 T |
| Coarse silt | GS_CSILT | percent | 17.5 | 29.8 | 51.5 T | 31.5 | 30.8 | 1.68 | 30.1 | 26.7 | 44.3 | 25.1 | 24.2 | 27.3 |
| Medium silt | GS_MSILT | percent | 10.9 | 13.3 | 11.6 T | 13.7 | 8.33 | 1.35 | 16.3 | 15.5 | 10.7 | 9.25 | 11.7 | 9.12 |
| Fine silt | GS_FSILT | percent | 8.05 | 8.2 | 2.83 T | 5.74 | 3.74 | 0.74 | 7.84 | 7.94 | 5.96 | 6.16 | 7.36 | 5.83 |
| Very fine silt | GS_VFSILT | percent | 5.17 | 4.7 | 1.36 T | 4.52 | 2.35 | 0.75 | 5.02 | 5.4 | 4.12 | 3.21 | 3.91 | 3.63 |
| 8-9 Phi clay | GS_CCLAY | percent | 2.97 | 2.68 | 1.3 T | 3.84 | 1.77 | 0.23 | 3.55 | 3.65 | 3.18 | 2.57 | 3.18 | 3.34 |
| >9 Phi clay | GS_MFCLAY | percent | 3.02 | 4.43 | 1.81 T | 5.08 | 2.53 | 0.73 | 4.91 | 5.47 | 3 | 4.33 | 3.53 | 4.56 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G738 | LW3-G739 | LW3-G740 | LW3-G741 | LW3-G742 | LW3-G743 | LW3-G744 | LW3-G745 | LW3-G746 | LW3-G747 | LW3-G748 | LW3-G750 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 28 | 0 - 22 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 19800 | 21700 | 12100 | 29500 | 21800 | 8140 | 26700 | 31800 | 30500 | 25300 | 23100 | 29800 |
| Antimony | 7440-36-0 | mg/kg | 0.33 J | 0.35 J | 0.19 J | 0.12 J | 0.33 J | 2.02 J | 0.11 J | 0.13 J | 0.56 J | 0.49 J | 0.43 J | 0.54 J |
| Arsenic | 7440-38-2 | mg/kg | 2.72 | 2.68 | 2 J | 3.08 J | 2.41 | 3.61 | 3.08 J | 3.23 J | 3.55 | 2.92 | 2.98 | 3.27 |
| Cadmium | 7440-43-9 | mg/kg | 0.216 | 0.248 | 0.154 | 0.179 | 0.196 | 0.288 | 0.154 | 0.189 | 0.192 | 0.146 | 0.215 | 0.187 |
| Chromium | 7440-47-3 | mg/kg | 21.1 | 24.1 | 15.9 | 27.2 | 23 | 12.9 | 26.7 | 29.6 | 29.8 | 25.4 | 27.5 | 30.2 |
| Copper | 7440-50-8 | mg/kg | 40.2 | 34.1 | 25.3 | 33.9 | 29.4 | 77 | 33.4 | 34.9 | 37.5 | 34.8 | 49 | 35.3 |
| Lead | 7439-92-1 | mg/kg | 12.5 | 15 | 15 | 9.2 | 9.93 | 33.5 | 9.5 | 10 | 10 J | 11 J | 15.3 | 12 J |
| Mercury | 7439-97-6 | mg/kg | 0.074 | 0.059 | 0.034 | 0.045 | 0.059 | 0.039 | 0.047 | 0.051 | 0.052 | 0.063 | 0.049 | 0.055 |
| Nickel | 7440-02-0 | mg/kg | 22.1 | 21 | 11.7 | 23.8 | 22.2 | 14.2 | 22.1 | 24.1 | 24.8 | 23 | 24.3 | 25.6 |
| Silver | 7440-22-4 | mg/kg | 0.15 | 0.17 | 0.151 | 0.147 | 0.12 | 0.15 | 0.14 | 0.157 | 0.2 | 0.2 | 0.22 | 0.2 |
| Zinc | 7440-66-6 | mg/kg | 118 | 149 | 249 | 95.4 | 86.5 | 189 | 90.6 | 99.2 | 84.6 | 91.7 | 98.4 | 87.7 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 120 | 11 | 3.1 | 1.1 J | 0.83 J | 0.65 J | 1.3 J | 1.4 J | 1.1 J | 1.5 J | 1.5 J | 1.3 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 150 | 11 | 5.5 | 1.6 J | 1.2 J | 1 J | 2.2 J | 2.3 J | 1.6 J | 2.4 J | 2.2 J | 2.2 J |
| Acenaphthene | 83-32-9 | ug/kg | 220 | 37 | 4.6 | 1 J | 2.2 J | 1.7 | 1 J | 1.2 J | 1.5 J | 2.3 J | 2.2 J | 2.6 J |
| Acenaphthylene | 208-96-8 | ug/kg | 30 | 9.8 | 5.7 | 1.7 J | 1.2 J | 1.4 J | 2 J | 2.6 J | 1.6 J | 2.5 J | 2 J | 1.9 J |
| Anthracene | 120-12-7 | ug/kg | 110 | 19 | 13 | 2.4 J | 1.8 J | 4.8 | 3.7 | 3.2 | 2.7 J | 4.1 | 2.8 | 5.7 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 570 | 74 | 48 | 11 | 8.6 | 17 | 12 | 14 | 9.4 | 15 | 15 | 15 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 840 | 72 | 64 | 11 | 9.3 | 16 | 12 | 15 | 9.1 | 17 | 15 | 16 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 1300 | 85 | 80 | 16 | 14 | 23 | 18 | 25 | 15 | 21 | 20 | 26 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 650 | 49 | 55 | 11 | 8.6 | 17 | 12 | 15 | 9.8 | 14 | 12 | 15 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 540 | 56 | 59 | 11 | 8.8 | 17 | 11 | 13 | 9.4 | 16 | 15 | 14 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 470 | 24 | 27 | 5.5 | 4.6 | 7.5 | 5.4 | 7.5 | 4.7 | 7.4 | 6.4 | 7.5 |
| Chrysene | 218-01-9 | ug/kg | 1300 | 55 | 80 | 16 | 11 | 22 | 17 | 25 | 16 | 21 | 22 | 22 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 110 | 9.2 | 8.1 | 1.8 J | 1.5 J | 3 | 1.9 J | 2.1 J | 1.5 J | 2.7 | 2.2 J | 2.3 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 120 | 9.2 | 4.9 | 0.64 J | 0.59 J | 1.8 | 0.83 J | 1.2 J | 0.9 J | 1.2 J | 1 J | 1.3 J |
| Fluoranthene | 206-44-0 | ug/kg | 3000 | 120 | 140 | 25 | 18 | 36 | 34 | 50 | 30 | 34 | 41 | 41 |
| Fluorene | 86-73-7 | ug/kg | 230 | 26 | 6.7 | 1.4 J | 1.3 J | 1.7 | 1.8 J | 2.2 J | 1.9 J | 2.2 J | 2 J | 3.3 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 680 | 53 | 51 | 8.3 | 7.3 | 16 | 8.9 | 10 | 7.6 | 13 | 14 | 12 |
| Naphthalene | 91-20-3 | ug/kg | 350 | 26 | 11 | 7.1 | 3.6 | 2.4 | 7.2 | 8 | 5.8 | 8.5 | 8.6 | 6.7 |
| Perylene | 198-55-0 | ug/kg | 170 | 39 | 28 | 32 | 21 | 9.3 | 24 | 22 | 15 | 19 | 12 | 20 |
| Phenanthrene | 85-01-8 | ug/kg | 3300 | 95 | 67 | 10 | 8.8 | 17 | 15 | 20 | 15 | 18 | 14 | 22 |
| Pyrene | 129-00-0 | ug/kg | 2400 | 140 | 140 | 25 | 18 | 42 | 33 | 44 | 28 | 36 | 39 | 37 |
| High Molecular Weight PAH | HPAH | ug/kg | 11000 T | 690 T | 700 T | 130 JT | 100 JT | 200 T | 150 JT | 210 JT | 130 JT | 180 T | 190 JT | 190 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 4400 T | 220 T | 110 T | 25 JT | 20 JT | 30 JT | 33 JT | 40 JT | 30 JT | 40 JT | 34 JT | 44 JT |
| Total PAHs | 130498-29-2 | ug/kg | 16000 T | 910 T | 810 T | 160 JT | 120 JT | 230 JT | 190 JT | 250 JT | 160 JT | 220 JT | 220 JT | 240 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 430 | 73 | 52 | 43 J | 5.9 | 26 | 31 J | 38 J | 26 | 22 J | 16 J | 36 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 24 | 18 | 13 | 1.4 J | 1.2 J | 4 | 2.9 | 3.3 | 2.9 | 3.7 | 2.3 J | 2.8 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 670 | 86 | 59 | 19 | 13 | 28 | 17 | 23 | 18 | 23 | 26 | 22 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 44 | 14 | 9.1 | 2 J | 1.3 J | 2.7 | 2.6 J | 2.8 | 2.1 J | 3.4 | 2.4 J | 2.6 J |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 650 | 72 | 37 | 8.7 | 6.3 | 19 | 7.7 | 12 | 9.8 | 11 | 14 | 11 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 170 | 40 | 47 | 16 | 6.9 | 26 | 17 | 21 | 15 | 14 | 12 | 15 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 54 | 29 | 20 | 4.3 | 3.2 | 7.5 | 4.4 | 7.1 | 4 | 5.3 | 7.3 | 4.7 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 190 | 52 | 41 | 17 | 11 | 24 | 15 | 22 | 13 | 17 | 15 | 19 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 49 | 26 | 13 | 4.1 | 3.1 | 6.2 | 5 | 4.2 | 4.6 | 6 | 5.6 | 4 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 160 | 46 | 17 | 2.4 J | 2.5 | 2.8 | 3.7 | 3.5 | 2.7 J | 4.5 | 3.7 | 3.2 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 310 | 66 | 73 | 19 | 5.8 | 21 | 19 | 22 | 26 | 20 | 13 | 21 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 95 | 31 | 37 | 13 | 9.3 | 41 | 14 | 20 | 12 | 14 | 17 | 12 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 52 | 18 | 30 | 4 | 4.3 | 8.7 | 5.6 | 7.3 | 5.5 | 7.8 | 6 | 5.2 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 110 | 29 | 23 | 12 | 7.2 | 22 | 11 | 16 | 9.2 | 12 | 13 | 10 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 67 | 37 | 29 | 6.8 | 3.8 | 12 | 7.7 | 8.8 | 5.8 | 9.5 | 6.8 | 7.8 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 140 | 49 | 17 | 2.3 J | 2.2 J | 3.8 | 3.8 | 3.4 | 2.7 J | 4.6 | 3.9 | 3 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 120 | 49 | 78 | 24 | 9.2 | 28 | 25 | 32 | 27 | 16 | 13 | 21 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 5 U | 18 | 25 | 0.25 U | 8.5 | 28 | 0.25 U | 9.5 | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 70 | 40 | 26 | 4.1 | 2.7 | 10 | 4.3 | 4.5 | 6.4 | 5.4 | 6.3 | 3.6 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 33 | 23 | 21 | 13 | 4.4 | 13 | 11 | 17 | 14 | 12 | 8.7 | 6.1 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 4070 | 59.7 | 433 | | | | | | | 12.4 U | | |
| PCB002 | 2051-61-8 | pg/g | 127 | 17.8 | 27.7 | | | | | | | 14.5 | | |
| PCB003 | 2051-62-9 | pg/g | 823 | 49.4 | 272 | | | | | | | 12.4 U | | |
| PCB004 & 010 | PCB004_010 | pg/g | 20800 | 291 | 2370 | | | | | | | 28.7 UJ | | |
| PCB005 & 008 | PCB005_008 | pg/g | 30200 | 716 | 2790 | | | | | | | 30 UJ | | |
| PCB006 | 25569-80-6 | pg/g | 5380 | 229 | 1160 | | | | | | | 24.7 U | | |
| PCB007 & 009 | PCB007_009 | pg/g | 1740 | 58.3 | 188 | | | | | | | 24.7 U | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G738 | LW3-G739 | LW3-G740 | LW3-G741 | LW3-G742 | LW3-G743 | LW3-G744 | LW3-G745 | LW3-G746 | LW3-G747 | LW3-G748 | LW3-G750 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 28 | 0 - 22 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 218 | 181 | 210 | | | | | | | 171 | | |
| PCB012 & 013 | PCB012_013 | pg/g | 1400 | 63.5 | 174 | | | | | | | 24.7 U | | |
| PCB014 | 34883-41-5 | pg/g | 9.93 U | 9.83 U | 27.1 UJ | | | | | | | 24.7 U | | |
| PCB015 | 2050-68-2 | pg/g | 7170 | 400 | 1340 | | | | | | | 36.4 UJ | | |
| PCB016 & 032 | PCB016_032 | pg/g | 15300 | 552 | 1770 | | | | | | | 52.3 | | |
| PCB017 | 37680-66-3 | pg/g | 12300 | 394 | 896 | | | | | | | 41 | | |
| PCB018 | 37680-65-2 | pg/g | 22600 | 869 | 2360 | | | | | | | 65 | | |
| PCB019 | 38444-73-4 | pg/g | 3950 | 150 | 1040 | | | | | | | 44.4 | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 18900 | 688 | 1450 | | | | | | | 63.8 | | |
| PCB022 | 38444-85-8 | pg/g | 11000 | 406 | 855 | | | | | | | 41.5 | | |
| PCB023 | 55720-44-0 | pg/g | 40.9 | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB024 & 027 | PCB024_027 | pg/g | 2030 | 75 | 337 | | | | | | | 12.4 U | | |
| PCB025 | 55712-37-3 | pg/g | 3160 | 182 | 378 | | | | | | | 18.4 | | |
| PCB026 | 38444-81-4 | pg/g | 5130 | 257 | 653 | | | | | | | 26.1 | | |
| PCB028 | 7012-37-5 | pg/g | 27300 | 1250 | 2020 | | | | | | | 136 | | |
| PCB029 | 15862-07-4 | pg/g | 315 | 8.64 | 15.9 | | | | | | | 12.4 U | | |
| PCB030 | 35693-92-6 | pg/g | 20.4 | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB031 | 16606-02-3 | pg/g | 27400 | 1020 | 2630 | | | | | | | 110 | | |
| PCB034 | 37680-68-5 | pg/g | 126 | 9.28 | 16.3 | | | | | | | 12.4 U | | |
| PCB035 | 37680-69-6 | pg/g | 381 | 21.2 | 29.7 | | | | | | | 12.4 U | | |
| PCB036 | 38444-87-0 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB037 | 38444-90-5 | pg/g | 7760 | 356 | 682 | | | | | | | 51 | | |
| PCB038 | 53555-66-1 | pg/g | 120 | 18.9 | 38.8 | | | | | | | 12.4 U | | |
| PCB039 | 38444-88-1 | pg/g | 19.9 | 5.56 | 4.98 U | | | | | | | 12.4 U | | |
| PCB040 | 38444-93-8 | pg/g | 3380 | 158 | 142 | | | | | | | 35 | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 15100 | 869 | 862 | | | | | | | 173 | | |
| PCB042 & 059 | PCB042_059 | pg/g | 5860 | 303 | 378 | | | | | | | 61.5 | | |
| PCB043 & 049 | PCB043_049 | pg/g | 11900 | 1530 | 2680 | | | | | | | 241 | | |
| PCB044 | 41464-39-5 | pg/g | 13300 | 844 | 1380 | | | | | | | 229 | | |
| PCB045 | 70362-45-7 | pg/g | 2650 | 117 | 232 | | | | | | | 20.1 UJ | | |
| PCB046 | 41464-47-5 | pg/g | 1080 | 64.7 | 183 | | | | | | | 14.6 | | |
| PCB047 | 2437-79-8 | pg/g | 4950 | 1080 | 2180 | | | | | | | 151 | | |
| PCB048 & 075 | PCB048_075 | pg/g | 3970 | 177 | 197 | | | | | | | 32.3 | | |
| PCB050 | 62796-65-0 | pg/g | 70.7 | 5.57 | 13.5 | | | | | | | 12.4 U | | |
| PCB051 | 68194-04-7 | pg/g | 1500 | 379 | 1340 | | | | | | | 38.4 | | |
| PCB052 & 069 | PCB052_069 | pg/g | 12500 | 1540 | 2920 | | | | | | | 311 | | |
| PCB053 | 41464-41-9 | pg/g | 2700 | 425 | 2000 | | | | | | | 63.5 | | |
| PCB054 | 15968-05-5 | pg/g | 109 | 45.8 | 253 | | | | | | | 12.4 U | | |
| PCB055 | 74338-24-2 | pg/g | 382 | 19.2 | 43.1 | | | | | | | 12.4 U | | |
| PCB056 & 060 | PCB056_060 | pg/g | 10300 | 444 | 657 | | | | | | | 98.6 | | |
| PCB057 | 70424-67-8 | pg/g | 122 | 13.4 | 14 | | | | | | | 12.4 U | | |
| PCB058 | 41464-49-7 | pg/g | 38.8 | 6.2 | 5.29 | | | | | | | 12.4 U | | |
| PCB061 & 070 | PCB061_070 | pg/g | 14000 | 1010 | 1670 | | | | | | | 256 | | |
| PCB062 | 54230-22-7 | pg/g | 10.7 | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB063 | 74472-34-7 | pg/g | 566 | 35.1 | 42.8 | | | | | | | 12.4 U | | |
| PCB065 | 33284-54-7 | pg/g | 18.3 | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB066 & 076 | PCB066_076 | pg/g | 12000 | 781 | 1410 | | | | | | | 193 | | |
| PCB067 | 73575-53-8 | pg/g | 701 | 37.8 | 46.5 | | | | | | | 12.4 U | | |
| PCB068 | 73575-52-7 | pg/g | 121 | 27.8 | 15 | | | | | | | 12.4 U | | |
| PCB073 | 74338-23-1 | pg/g | 4.97 U | 26.4 | 4.98 U | | | | | | | 12.4 U | | |
| PCB074 | 32690-93-0 | pg/g | 7110 | 368 | 559 | | | | | | | 97 | | |
| PCB077 | 32598-13-3 | pg/g | 1250 | 89.7 | 124 | | | | | | | 19.4 UJ | | |
| PCB078 | 70362-49-1 | pg/g | 4.97 U | 4.91 U | 6.23 | | | | | | | 12.4 U | | |
| PCB079 | 41464-48-6 | pg/g | 115 | 36.4 | 36.3 | | | | | | | 12.4 U | | |
| PCB080 | 33284-52-5 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB081 | 70362-50-4 | pg/g | 45.3 | 5.53 | 17.3 | | | | | | | 1.8 U | | |
| PCB082 | 52663-62-4 | pg/g | 846 | 119 | 349 | | | | | | | 50.5 | | |
| PCB083 | 60145-20-2 | pg/g | 12.2 | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB084 & 092 | PCB084_092 | pg/g | 4230 | 1340 | 2040 | | | | | | | 194 | | |
| PCB085 & 116 | PCB085_116 | pg/g | 1090 | 218 | 380 | | | | | | | 65.2 | | |
| PCB086 | 55312-69-1 | pg/g | 104 | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 2070 | 539 | 1210 | | | | | | | 138 | | |
| PCB088 & 091 | PCB088_091 | pg/g | 1880 | 647 | 1090 | | | | | | | 91.5 | | |
| PCB089 | 73575-57-2 | pg/g | 149 | 13.5 | 27 | | | | | | | 12.4 U | | |
| PCB090 & 101 | PCB090_101 | pg/g | 10600 | 4280 | 7730 | | | | | | | 542 | | |
| PCB093 | 73575-56-1 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G738 | LW3-G739 | LW3-G740 | LW3-G741 | LW3-G742 | LW3-G743 | LW3-G744 | LW3-G745 | LW3-G746 | LW3-G747 | LW3-G748 | LW3-G750 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 28 | 0 - 22 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 215 | 58.8 | 57.3 | | | | | | | 12.4 U | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 7850 | 3230 | 7130 | | | | | | | 393 | | |
| PCB096 | 73575-54-9 | pg/g | 218 | 58.5 | 97.6 | | | | | | | 12.4 U | | |
| PCB097 | 41464-51-1 | pg/g | 1640 | 373 | 806 | | | | | | | 126 | | |
| PCB099 | 38380-01-7 | pg/g | 5050 | 1510 | 2030 | | | | | | | 251 | | |
| PCB100 | 39485-83-1 | pg/g | 526 | 197 | 276 | | | | | | | 16.3 | | |
| PCB103 | 60145-21-3 | pg/g | 568 | 247 | 276 | | | | | | | 15.9 | | |
| PCB104 | 56558-16-8 | pg/g | 14.7 | 7.11 | 13.3 | | | | | | | 12.4 U | | |
| PCB105 | 32598-14-4 | pg/g | 1590 | 383 | 999 | | | | | | | 136 | | |
| PCB106 & 118 | PCB106_118 | pg/g | 4420 | 1550 | 2970 | | | | | | | 429 | | |
| PCB107 & 109 | PCB107_109 | pg/g | 627 | 177 | 197 | | | | | | | 30.8 | | |
| PCB108 & 112 | PCB108_112 | pg/g | 349 | 78.7 | 112 | | | | | | | 20.1 | | |
| PCB110 | 38380-03-9 | pg/g | 7140 | 2660 | 5280 | | | | | | | 554 | | |
| PCB111 & 115 | PCB111_115 | pg/g | 170 | 23.2 | 37.9 | | | | | | | 12.4 U | | |
| PCB113 | 68194-10-5 | pg/g | 101 | 38.6 | 4.98 U | | | | | | | 12.4 U | | |
| PCB114 | 74472-37-0 | pg/g | 122 | 19.2 | 46.5 | | | | | | | 11 U | | |
| PCB119 | 56558-17-9 | pg/g | 712 | 236 | 221 | | | | | | | 18.8 | | |
| PCB120 | 68194-12-7 | pg/g | 127 | 32.7 | 32.9 | | | | | | | 12.4 U | | |
| PCB121 | 56558-18-0 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB122 | 76842-07-4 | pg/g | 68.8 | 12.7 | 29.6 | | | | | | | 12.4 U | | |
| PCB123 | 65510-44-3 | pg/g | 87.7 | 17.5 | 54.2 | | | | | | | 7.39 J | | |
| PCB124 | 70424-70-3 | pg/g | 162 | 36.6 | 234 | | | | | | | 14.4 | | |
| PCB126 | 57465-28-8 | pg/g | 26.1 | 14.7 | 27.6 | | | | | | | 3.4 J | | |
| PCB127 | 39635-33-1 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB128 & 162 | PCB128_162 | pg/g | 722 | 477 | 1160 | | | | | | | 86.5 | | |
| PCB129 | 55215-18-4 | pg/g | 199 | 118 | 265 | | | | | | | 23 | | |
| PCB130 | 52663-66-8 | pg/g | 746 | 377 | 564 | | | | | | | 46.6 | | |
| PCB131 | 61798-70-7 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB132 & 161 | PCB132_161 | pg/g | 3360 | 1960 | 4470 | | | | | | | 181 | | |
| PCB133 & 142 | PCB133_142 | pg/g | 1070 | 313 | 453 | | | | | | | 24.3 | | |
| PCB134 & 143 | PCB134_143 | pg/g | 613 | 325 | 773 | | | | | | | 33.6 | | |
| PCB135 | 52744-13-5 | pg/g | 4000 | 1850 | 2640 | | | | | | | 133 | | |
| PCB136 | 38411-22-2 | pg/g | 2850 | 1630 | 3140 | | | | | | | 118 | | |
| PCB137 | 35694-06-5 | pg/g | 182 | 80.3 | 197 | | | | | | | 31.2 | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 13400 | 7620 | 14100 | | | | | | | 733 | | |
| PCB139 & 149 | PCB139_149 | pg/g | 17100 | 10700 | 14200 | | | | | | | 679 | | |
| PCB140 | 59291-64-4 | pg/g | 605 | 159 | 93.6 | | | | | | | 12.4 U | | |
| PCB141 | 52712-04-6 | pg/g | 2570 | 1840 | 5070 | | | | | | | 183 | | |
| PCB144 | 68194-14-9 | pg/g | 692 | 490 | 882 | | | | | | | 32.2 | | |
| PCB145 | 74472-40-5 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB146 & 165 | PCB146_165 | pg/g | 6340 | 2120 | 2960 | | | | | | | 123 UJ | | |
| PCB147 | 68194-13-8 | pg/g | 1450 | 302 | 289 | | | | | | | 27.4 | | |
| PCB148 | 74472-41-6 | pg/g | 365 | 87.6 | 45.7 | | | | | | | 12.4 U | | |
| PCB150 | 68194-08-1 | pg/g | 317 | 75.8 | 66.5 | | | | | | | 12.4 U | | |
| PCB151 | 52663-63-5 | pg/g | 6430 | 3790 | 6230 | | | | | | | 221 UJ | | |
| PCB152 | 68194-09-2 | pg/g | 71.5 | 13.5 | 15.7 | | | | | | | 12.4 U | | |
| PCB153 | 35065-27-1 | pg/g | 20000 | 10400 | 21200 | | | | | | | 798 | | |
| PCB154 | 60145-22-4 | pg/g | 1960 | 531 | 370 | | | | | | | 24.4 | | |
| PCB155 | 33979-03-2 | pg/g | 14.5 | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB156 | 38380-08-4 | pg/g | 723 | 396 | 805 | | | | | | | 55.9 | | |
| PCB157 | 69782-90-7 | pg/g | 68 | 45.6 | 106 | | | | | | | 10.3 U | | |
| PCB158 & 160 | PCB158_160 | pg/g | 966 | 610 | 1380 | | | | | | | 75 | | |
| PCB159 | 39635-35-3 | pg/g | 4.97 U | 4.91 U | 263 | | | | | | | 12.4 U | | |
| PCB166 | 41411-63-6 | pg/g | 7.99 | 5.09 | 12.2 | | | | | | | 12.4 U | | |
| PCB167 | 52663-72-6 | pg/g | 289 | 188 | 410 | | | | | | | 25.3 | | |
| PCB168 | 59291-65-5 | pg/g | 88.9 | 23.9 | 28.2 | | | | | | | 12.4 U | | |
| PCB169 | 32774-16-6 | pg/g | 4.73 U | 2.37 J | 8.75 UJ | | | | | | | 1.77 U | | |
| PCB170 | 35065-30-6 | pg/g | 6890 | 3620 | 7380 | | | | | | | 248 | | |
| PCB171 | 52663-71-5 | pg/g | 1770 | 933 | 1940 | | | | | | | 62.9 | | |
| PCB172 | 52663-74-8 | pg/g | 1240 | 644 | 1250 | | | | | | | 39 UJ | | |
| PCB173 | 68194-16-1 | pg/g | 144 | 85.1 | 172 | | | | | | | 12.4 U | | |
| PCB174 | 38411-25-5 | pg/g | 8420 | 4820 | 9060 | | | | | | | 308 | | |
| PCB175 | 40186-70-7 | pg/g | 356 | 199 | 428 | | | | | | | 13.3 | | |
| PCB176 | 52663-65-7 | pg/g | 1220 | 654 | 1030 | | | | | | | 43.2 | | |
| PCB177 | 52663-70-4 | pg/g | 6470 | 2690 | 5520 | | | | | | | 184 | | |
| PCB178 | 52663-67-9 | pg/g | 2950 | 1140 | 1840 | | | | | | | 78.7 | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G738 | LW3-G739 | LW3-G740 | LW3-G741 | LW3-G742 | LW3-G743 | LW3-G744 | LW3-G745 | LW3-G746 | LW3-G747 | LW3-G748 | LW3-G750 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 28 | 0 - 22 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 5370 | 2410 | 4540 | | | | | | | 165 | | |
| PCB180 | 35065-29-3 | pg/g | 19000 | 10100 | 19400 | | | | | | | 656 | | |
| PCB181 | 74472-47-2 | pg/g | 24.1 | 23.8 | 4.98 U | | | | | | | 12.4 U | | |
| PCB182 & 187 | PCB182_187 | pg/g | 15600 | 7040 | 10600 | | | | | | | 459 | | |
| PCB183 | 52663-69-1 | pg/g | 4500 | 2540 | 5000 | | | | | | | 201 | | |
| PCB184 | 74472-48-3 | pg/g | 12.6 | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB185 | 52712-05-7 | pg/g | 833 | 493 | 1150 | | | | | | | 27.4 UJ | | |
| PCB186 | 74472-49-4 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB188 | 74487-85-7 | pg/g | 79.9 | 14.5 | 13.5 | | | | | | | 12.4 U | | |
| PCB189 | 39635-31-9 | pg/g | 284 | 127 | 215 | | | | | | | 10.2 J | | |
| PCB190 | 41411-64-7 | pg/g | 1620 | 792 | 1460 | | | | | | | 50.1 | | |
| PCB191 | 74472-50-7 | pg/g | 289 | 151 | 271 | | | | | | | 12.4 U | | |
| PCB192 | 74472-51-8 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB193 | 69782-91-8 | pg/g | 1210 | 527 | 888 | | | | | | | 32.3 | | |
| PCB194 | 35694-08-7 | pg/g | 6020 | 2430 | 4080 | | | | | | | 154 | | |
| PCB195 | 52663-78-2 | pg/g | 2430 | 1040 | 1830 | | | | | | | 62.5 | | |
| PCB196 & 203 | PCB196_203 | pg/g | 6330 | 3090 | 3980 | | | | | | | 218 | | |
| PCB197 | 33091-17-7 | pg/g | 229 | 93.9 | 144 | | | | | | | 12.4 U | | |
| PCB198 | 68194-17-2 | pg/g | 308 | 134 | 270 | | | | | | | 12.4 U | | |
| PCB199 | 52663-75-9 | pg/g | 5870 | 2940 | 3950 | | | | | | | 228 | | |
| PCB200 | 52663-73-7 | pg/g | 755 | 372 | 524 | | | | | | | 22.7 | | |
| PCB201 | 40186-71-8 | pg/g | 811 | 310 | 540 | | | | | | | 24.7 | | |
| PCB202 | 2136-99-4 | pg/g | 1070 | 429 | 647 | | | | | | | 38.6 | | |
| PCB204 | 74472-52-9 | pg/g | 4.97 U | 4.91 U | 4.98 U | | | | | | | 12.4 U | | |
| PCB205 | 74472-53-0 | pg/g | 261 | 106 | 177 | | | | | | | 12.4 U | | |
| PCB206 | 40186-72-9 | pg/g | 1250 | 659 | 750 | | | | | | | 91.5 | | |
| PCB207 | 52663-79-3 | pg/g | 167 | 80 | 85 | | | | | | | 12.4 U | | |
| PCB208 | 52663-77-1 | pg/g | 211 | 139 | 123 | | | | | | | 25.5 | | |
| PCB209 | 2051-24-3 | pg/g | 162 | 236 | 65.6 | | | | | | | 52.6 | | |
| Total PCB Congeners | 1336-36-3 | pg/g | 600000 T | 134000 JT | 249000 T | | | | | | | 12700 JT | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 2.98 T | 1.63 JT | 2.95 T | | | | | | | 0.36 JT | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 5020 T | 127 T | 733 T | | | | | | | 14.5 T | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 66900 T | 1940 T | 8230 T | | | | | | | 171 T | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 158000 T | 6260 T | 15200 T | | | | | | | 650 T | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 126000 T | 10400 T | 19400 T | | | | | | | 1990 T | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 52800 T | 18100 T | 33800 T | | | | | | | 3100 JT | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 87200 T | 46500 JT | 82200 T | | | | | | | 3310 T | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 78300 T | 39000 T | 72200 T | | | | | | | 2510 JT | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 24100 T | 10900 T | 16100 T | | | | | | | 749 T | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 1630 T | 878 T | 958 T | | | | | | | 117 T | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 4.8 J | 1.9 | 3.9 | 0.61 U | 0.16 U | 0.16 U | 0.91 U | 0.84 U | 1.1 U | 0.2 U | 0.33 | 0.68 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 4.5 U | 1.6 U | 1.2 U | 0.17 U | 0.046 U | 0.046 U | 0.15 NJ | 0.22 U | 0.23 U | 0.2 U | 0.046 U | 0.22 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 6.3 NJ | 4.5 NJ | 2.8 U | 0.61 NJ | 0.33 U | 0.25 J | 0.5 J | 0.82 NJ | 0.7 U | 1.1 NJ | 0.38 U | 0.37 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 3.4 | 1.6 | 0.75 | 0.57 | 0.46 | 0.56 J | 0.71 | 0.64 | 0.88 | 0.64 | 0.54 | 0.86 J |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.3 NJ | 1.9 | 0.83 NJ | 1.4 J | 0.89 | 0.39 J | 1.5 J | 1.3 J | 1.7 | 1.2 | 0.85 | 1.5 |
| 4,4'-DDT | 50-29-3 | ug/kg | 5.7 U | 5.2 U | 12 U | 0.6 J | 2.5 J | 0.41 U | 0.2 U | 1.1 NJ | 3.7 | 1.7 J | 0.47 U | 0.91 U |
| Aldrin | 309-00-2 | ug/kg | 2.6 U | 0.36 U | 1.2 U | 0.47 | 0.28 U | 0.12 U | 0.47 | 0.43 | 0.44 U | 0.48 | 0.29 | 0.41 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.37 U | 0.14 U | 0.32 U | 0.19 U | 0.16 J | 0.19 NJ | 0.29 J | 0.16 U | 0.23 J | 0.15 J | 0.61 U | 0.3 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.099 U | 0.097 U | 0.11 U | 0.097 U | 0.097 U | 0.13 U | 0.11 U | 0.11 U | 0.097 U | 0.097 U | 0.13 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 1.4 | 0.35 U | 0.59 U | 0.074 U | 0.031 U | 0.13 U | 0.1 J | 0.071 NJ | 0.2 U | 0.17 U | 0.12 U | 0.21 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.31 U | 0.21 U | 0.76 J | 0.2 J | 0.14 U | 0.14 | 0.35 | 0.28 U | 0.32 J | 0.23 U | 0.14 U | 0.3 |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.41 U | 0.058 NJ | 0.2 U | 0.14 J | 0.087 J | 0.091 U | 0.23 J | 0.26 | 0.21 J | 0.06 U | 0.09 U | 0.12 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 1.2 U | 3.7 U | 0.57 U | 0.44 U | 0.22 U | 0.21 U | 0.38 U | 0.49 U | 0.63 U | 0.37 U | 0.29 U | 0.43 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.43 U | 0.21 U | 0.46 U | 0.12 U | 0.11 U | 0.11 U | 0.12 U | 0.13 U | 0.13 U | 0.11 U | 0.11 U | 0.12 U |
| Dieldrin | 60-57-1 | ug/kg | 0.18 U | 0.62 U | 0.15 J | 0.032 U | 0.22 U | 0.13 U | 0.033 U | 0.033 U | 0.034 U | 0.03 U | 0.35 U | 0.032 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.18 U | 0.24 U | 0.42 U | 0.21 U | 0.19 U | 0.21 U | 0.22 U | 0.22 U | 0.23 U | 0.2 U | 0.2 U | 0.22 U |
| Endrin | 72-20-8 | ug/kg | 0.35 U | 1.5 U | 0.2 U | 0.075 U | 0.071 U | 0.071 U | 0.078 U | 0.078 U | 0.079 U | 0.071 U | 0.38 U | 0.075 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 1.8 U | 1.2 U | 1.6 U | 0.044 U | 0.19 U | 0.23 NJ | 0.046 U | 0.22 U | 0.23 U | 0.042 U | 0.2 U | 0.045 U |
| Endrin ketone | 53494-70-5 | ug/kg | 1.6 U | 1.1 U | 3.1 U | 0.45 J | 0.17 U | 0.068 U | 0.39 NJ | 0.22 U | 0.63 U | 0.29 U | 0.33 NJ | 0.23 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 5.6 NJ | 0.25 | 0.33 | 0.065 U | 0.14 U | 0.12 U | 0.068 U | 0.068 U | 0.23 U | 0.2 U | 0.083 U | 0.22 U |
| Heptachlor | 76-44-8 | ug/kg | 0.33 U | 0.67 J | 0.29 NJ | 0.08 U | 0.076 U | 0.076 U | 0.083 U | 0.084 U | 0.085 U | 0.076 U | 0.076 U | 0.22 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 2.1 U | 0.35 U | 0.43 U | 0.21 U | 0.068 U | 0.068 U | 0.22 U | 0.22 U | 0.23 U | 0.2 U | 0.2 U | 0.22 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.72 U | 0.92 U | 1.3 U | 0.21 U | 0.19 U | 0.075 U | 0.47 U | 0.39 U | 0.23 U | 0.6 U | 0.22 U | 0.079 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G738 | LW3-G739 | LW3-G740 | LW3-G741 | LW3-G742 | LW3-G743 | LW3-G744 | LW3-G745 | LW3-G746 | LW3-G747 | LW3-G748 | LW3-G750 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 28 | 0 - 22 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.13 U | 0.12 U | 0.13 U | 0.12 U | 0.12 U | 0.14 U | 0.14 U | 0.14 U | 0.12 U | 0.12 U | 0.13 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.19 J | 0.062 U | 0.18 U | 0.31 U | 0.24 U | 0.31 U | 0.067 U | 0.22 U | 0.23 U | 0.2 U | 0.27 U | 0.26 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.19 JT | 0.058 JT | 3 JT | 0.74 JT | 0.087 JT | 0.33 T | 0.93 JT | 1.1 JT | 1.1 JT | 0.34 T | 0.42 JT | 0.7 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 1.4 T | 0.35 UT | 0.59 UT | 0.21 UT | 0.16 JT | 0.19 JT | 0.39 JT | 0.071 JT | 0.23 JT | 0.15 JT | 0.61 UT | 0.3 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 8.2 JT | 3.5 T | 4.7 T | 0.57 T | 0.46 T | 0.56 JT | 0.71 T | 0.64 T | 0.88 T | 0.64 T | 0.87 T | 0.86 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 16 JT | 9.9 JT | 5.5 JT | 3.2 JT | 3.9 JT | 1.2 JT | 2.9 JT | 3.9 JT | 6.3 T | 4.6 JT | 1.7 T | 2.4 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.3 JT | 1.9 T | 0.83 JT | 1.4 JT | 0.89 T | 0.39 JT | 1.7 JT | 1.3 JT | 1.7 T | 1.2 T | 0.85 T | 1.5 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 6.3 JT | 4.5 JT | 12 UT | 1.2 JT | 2.5 JT | 0.25 JT | 0.5 JT | 1.9 JT | 3.7 T | 2.8 JT | 0.47 UT | 0.91 UT |
| Toxaphene | 8001-35-2 | ug/kg | 57 U | 61 U | 120 U | 17 U | 9.1 U | 13 U | 18 U | 18 U | 59 U | 23 U | 28 U | 19 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.48 U | 0.24 U | 3 J | 0.44 J | 0.16 U | 0.33 | 0.51 J | 0.63 J | 0.63 | 0.34 | 0.33 | 0.56 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.18 U | 0.13 U | 0.2 U | 0.16 J | 0.13 U | 0.093 U | 0.19 J | 0.23 | 0.21 J | 0.11 U | 0.088 J | 0.14 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 120 J | 93 J | 90 J | 39 J | 34 J | 36.5 JT | 46 J | 52 J | 61 J | 57 J | 52 J | 60 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 71 J | 86 J | 68 J | 29 J | 26 J | 36 JT | 34 J | 38 J | 36 J | 39 J | 47 J | 38 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 350 J | 430 J | 610 J | 310 J | 220 J | 260 JT | 350 J | 370 J | 450 J | 360 J | 320 J | 410 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 160 J | 310 J | 270 J | 120 J | 120 J | 205 JT | 130 J | 150 J | 160 J | 170 J | 190 J | 170 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 470 JA | 523 JA | 700 JA | 349 JA | 254 JA | 297 JA | 396 JA | 422 JA | 511 JA | 417 JA | 372 JA | 470 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 231 JA | 396 JA | 338 JA | 149 JA | 146 JA | 241 JA | 164 JA | 188 JA | 196 JA | 209 JA | 237 JA | 208 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 1.4 J | 0.43 U | 0.5 U | 0.44 U | 0.38 U | 0.27 U | 0.46 U | 0.46 U | 0.46 U | 0.41 U | 0.4 U | 0.44 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.29 U | 0.35 U | 0.38 NJ | 0.36 U | 0.31 U | 0.22 U | 1 NJ | 0.37 U | 0.38 U | 0.34 U | 0.33 U | 0.36 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.94 U | 1.2 U | 0.95 U | 1.2 U | 0.99 U | 0.69 U | 5.7 U | 1.2 U | 1.3 U | 1.1 U | 1.1 U | 1.2 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.24 J | 0.23 U | 0.19 U | 0.23 U | 0.2 U | 0.14 U | 0.24 U | 0.24 U | 0.25 U | 0.22 U | 0.21 U | 0.23 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 5 U | 1.1 U | 5 U | 1.1 U | 1 U | 5 U | 1.1 U | 2.2 U | 5.6 U | 5 U | 1 U | 2.1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 28 UJ | 5.7 UJ | 28 U | 5.8 U | 5.5 UJ | 28 UJ | 6 U | 12 U | 31 U | 28 U | 5.5 UJ | 12 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 85 U | 18 U | 85 U | 18 U | 17 U | 85 U | 19 U | 38 U | 94 U | 85 U | 17 U | 36 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 10 U | 2.1 U | 10 U | 2.1 U | 2 U | 10 U | 2.2 U | 4.4 U | 12 U | 10 U | 2 U | 4.2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 7.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 1.7 U | 3.3 U | 8.3 U | 7.5 U | 1.5 U | 3.2 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 7.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 1.7 U | 3.3 U | 8.3 U | 7.5 U | 1.5 U | 3.2 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 7 U | 1.5 U | 7 U | 1.5 U | 1.4 U | 7 U | 1.6 U | 3.1 U | 7.8 U | 7 U | 1.4 U | 3 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 7 U | 1.5 U | 7 U | 1.5 U | 1.4 U | 7 U | 1.6 U | 3.1 U | 7.8 U | 7 U | 1.4 U | 3 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 50 J | 32 J | 16 J | 5.3 J | 7.6 J | 7.5 U | 13 | 8.9 J | 10 J | 17 J | 7.3 J | 7.9 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 90 U | 19 U | 90 U | 19 U | 18 U | 90 U | 20 U | 40 U | 100 U | 90 U | 18 U | 38 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 4.2 NJ | 4.5 NJ | 2.9 U | 3.4 NJ | 0.29 U | 1 J | 0.62 U | 5 U | 0.35 U | 1.9 NJ | 2.1 NJ | 3.3 NJ |
| Phenol | 108-95-2 | ug/kg | 10 U | 7.8 J | 24 U | 13 U | 3.7 J | 10 U | 20 U | 22 U | 12 U | 10 U | 4.3 J | 11 J |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 490 J | 260 J | 1100 | 130 | 71 J | 230 J | 200 | 190 | 210 | 220 | 3300 J | 180 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 17 J | 15 | 84 | 6.3 J | 6.7 J | 16 U | 15 | 14 J | 18 U | 22 J | 23 | 6.7 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 57 U | 28 U | 40 U | 19 | 55 U | 40 U | 26 | 22 | 44 U | 40 U | 31 U | 37 |
| Diethyl phthalate | 84-66-2 | ug/kg | 7.8 J | 6.2 J | 7.1 U | 4.1 U | 6.3 J | 6.5 U | 6.4 U | 5.2 U | 7.9 J | 8.1 J | 3.6 J | 5.8 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 5 U | 1.8 J | 22 J | 1.1 U | 1 U | 5 U | 1.4 J | 2.2 U | 5.6 U | 5 U | 1.1 J | 2.1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 8.5 U | 1.8 U | 8.5 U | 1.8 U | 1.7 U | 8.5 U | 1.9 U | 3.8 U | 9.4 U | 8.5 U | 1.7 U | 3.6 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 13 U | 2.7 U | 13 U | 2.7 U | 2.6 U | 13 U | 2.9 U | 5.7 U | 15 U | 13 U | 2.6 U | 5.5 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 15 U | 3 U | 15 U | 3.1 U | 2.9 U | 15 U | 3.2 U | 6.4 U | 17 U | 15 U | 2.9 U | 6.1 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 15 U | 3.1 U | 15 U | 3.2 U | 3 U | 15 U | 3.3 U | 6.6 U | 17 U | 15 U | 3 U | 6.3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 15 U | 4.5 J | 15 U | 3.1 U | 2.9 U | 15 U | 3.2 U | 6.4 U | 17 U | 15 U | 2.9 U | 6.1 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 7.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 1.7 U | 3.3 U | 8.3 U | 7.5 U | 1.5 U | 3.2 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 10 U | 2.1 U | 10 U | 2.1 U | 2 U | 10 U | 2.2 U | 4.4 U | 12 U | 10 U | 2 U | 4.2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 8 U | 1.7 U | 8 U | 1.7 U | 1.6 U | 8 U | 1.8 U | 3.5 U | 8.9 U | 8 U | 1.6 U | 3.4 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 16 U | 3.3 U | 16 U | 3.4 U | 3.2 U | 16 U | 3.5 U | 7 U | 18 U | 16 U | 3.2 U | 6.7 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 19 UJ | 3.8 UJ | 19 U | 3.9 U | 3.7 UJ | 19 UJ | 4 U | 8.1 U | 21 U | 19 U | 3.7 UJ | 7.8 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 13 U | 2.6 U | 13 U | 2.6 U | 2.5 U | 13 U | 2.7 U | 5.5 U | 14 U | 13 U | 2.5 U | 5.3 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 8 U | 1.7 U | 8 U | 1.7 U | 1.6 U | 8 U | 1.8 U | 3.5 U | 8.9 U | 8 U | 1.6 U | 3.4 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 9.5 U | 2 U | 9.5 U | 2 U | 1.9 U | 13 J | 2.1 U | 4.2 U | 11 U | 9.5 U | 1.9 U | 4 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 7 U | 1.5 U | 7 U | 1.5 U | 1.4 U | 7 U | 1.6 U | 3.1 U | 7.8 U | 7 U | 1.4 U | 3 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 9 U | 1.9 U | 9 U | 1.9 U | 1.8 U | 9 U | 2 U | 4 U | 10 U | 9 U | 1.8 U | 3.8 U |
| Aniline | 62-53-3 | ug/kg | 7.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 1.7 U | 3.3 U | 8.3 U | 7.5 U | 1.5 U | 3.2 U |
| Azobenzene | 103-33-3 | ug/kg | 5.5 U | 1.2 U | 5.5 U | 1.2 U | 1.1 U | 5.5 U | 1.2 U | 2.4 U | 6.1 U | 5.5 U | 1.1 U | 2.3 U |
| Benzoic acid | 65-85-0 | ug/kg | 480 U | 98 U | 480 U | 150 J | 96 U | 480 U | 210 J | 220 J | 540 U | 480 U | 96 U | 210 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 11 U | 12 | 16 J | 13 | 6 J | 11 U | 16 | 9.1 J | 12 U | 11 U | 6.8 J | 12 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 7.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 7.5 U | 1.7 U | 3.3 U | 8.3 U | 7.5 U | 1.5 U | 3.2 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 9.5 U | 2 U | 9.5 U | 2 U | 1.9 U | 9.5 U | 2.1 U | 4.2 U | 11 U | 9.5 U | 1.9 U | 4 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 13 U | 2.7 U | 13 U | 2.7 U | 2.6 U | 13 U | 2.9 U | 5.7 U | 15 U | 13 U | 2.6 U | 5.5 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G738 | LW3-G739 | LW3-G740 | LW3-G741 | LW3-G742 | LW3-G743 | LW3-G744 | LW3-G745 | LW3-G746 | LW3-G747 | LW3-G748 | LW3-G750 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 24 | 0 - 29 | 0 - 27 | 0 - 30 | 0 - 28 | 0 - 22 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 400 | 5.3 J | 10 J | 2.4 J | 1.9 J | 6.5 U | 2.9 J | 3.8 J | 7.2 U | 6.5 U | 2.3 J | 4.7 J |
| Dibenzofuran | 132-64-9 | ug/kg | 320 | 11 | 3.6 | 0.96 J | 0.84 J | 0.9 J | 1.4 J | 1.7 J | 1.4 J | 1.5 J | 1.6 J | 2.1 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.56 U | 0.21 U | 0.3 U | 0.15 J | 0.19 U | 0.13 U | 0.22 U | 0.17 J | 0.23 U | 0.2 U | 0.068 U | 1.7 |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.25 J | 2.6 U | 0.14 U | 0.15 U | 0.2 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.14 U | 0.46 | 0.15 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 150 U | 30 U | 150 U | 31 U | 29 U | 150 U | 32 U | 64 U | 170 U | 150 U | 29 U | 61 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 3.2 U | 0.16 U | 0.17 U | 0.16 U | 0.16 U | 0.18 U | 0.18 U | 0.18 U | 0.16 U | 0.16 U | 0.17 U |
| Isophorone | 78-59-1 | ug/kg | 5 U | 1.1 U | 5 U | 1.1 U | 1 U | 5 U | 1.1 U | 2.2 U | 5.6 U | 5 U | 1 U | 2.1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 11 U | 2.3 U | 11 U | 2.3 U | 2.2 U | 11 U | 2.4 U | 4.8 U | 13 U | 11 U | 2.2 U | 4.6 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 31 U | 6.3 U | 31 U | 6.4 U | 6.1 U | 31 U | 6.6 U | 14 U | 34 U | 31 U | 6.1 U | 13 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 8 U | 1.7 U | 8 U | 1.7 U | 1.6 U | 8 U | 1.8 U | 3.5 U | 8.9 U | 8 U | 1.6 U | 3.4 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 12 U | 2.5 U | 12 U | 2.5 U | 2.4 U | 12 U | 2.6 U | 5.3 U | 14 U | 12 U | 2.4 U | 5.1 U |

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Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G751 | LW3-G752 | LW3-G753 | LW3-G754 | LW3-G755 | LW3-G756 | LW3-G758 | LW3-G759-1 | LW3-G759-2 | LW3-G760 | LW3-G761 | LW3-G763 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 22 | 0 - 29 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.5 U | 1.5 U | 13 U | 9.3 U | 1.3 U | 1.3 U | 1.3 U | 6 U | 5.9 U | 37 U | 10 U | 1.4 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.5 U | 1.5 U | 21 U | 2.6 U | 1.3 U | 1.3 U | 1.3 U | 2.9 U | 5.6 U | 6.8 U | 2 U | 1.4 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.5 U | 1.5 U | 21 U | 15 U | 1.3 U | 1.3 U | 1.3 U | 7 U | 5.7 U | 45 U | 17 U | 1.4 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.5 U | 1.5 U | 13 U | 5.2 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.3 U | 16 U | 7.4 U | 1.4 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.7 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 18 U | 2 U | 1.4 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 7.2 J | 18 J | 6.2 U | 4.5 U | 11 J | 27 J | 8.4 J | 4.9 U | 6.3 U | 8.2 U | 4.8 U | 7.5 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 6.8 | 17 | 8.4 | 4.8 | 13 | 26 | 12 | 12 | 15 | 6 U | 4.1 U | 8 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.7 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3 U | 2 U | 1.4 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.7 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.8 U | 2 U | 1.4 U |
| Aroclors | 12767-79-2 | ug/kg | 14 JT | 35 JT | 8.4 T | 4.8 T | 24 JT | 53 JT | 20.4 JT | 12 T | 15 T | 45 UT | 17 UT | 15.5 JT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 83 | 96 | | | 59.4 | 69.2 | | | | | | 116 T |
| Specific Gravity | SPEC_GRAV | NA | 1.63 | 1.68 | 1.36 | 1.32 | 1.72 | 1.77 | 1.83 | 1.55 | 1.46 | 1.32 | 1.27 | 1.7 T |
| Sulfide | 18496-25-8 | mg/kg | 3.6 | 9.6 | | | 5.1 | 1.4 | 0.45 U | | | | | 4.7 T |
| Total organic carbon | TOC | percent | 1.77 | 2 | 2.06 | 2.49 | 2.07 | 1.53 | 1.34 | 1.32 | 1.33 | 2.98 | 2.62 | 1.66 |
| Total solids | TSO | percent | 44.9 | 45.7 | 43.6 | 37.9 | 51.5 | 51 | 52.7 | 52.9 | 50.3 | 36.8 | 33.1 | 47.2 T |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | 0.683 JA | | | | | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.22 | 0.55 | 0 | 0.68 | 1.96 | 0.01 | 0.48 | 0.05 | 0 | 0.71 | 1.09 | 0.09 |
| Fine gravel | GS_FG | percent | 1.66 | 2.31 | 1.21 | 3.21 | 4.04 | 0.51 | 0.86 | 0.52 | 0.38 | 2.41 | 6 | 0.85 |
| Very coarse sand | GS_VCS | percent | 1 | 1.78 | 1.36 | 1.15 | 5.54 | 0.77 | 1.23 | 1 | 0.55 | 2.8 | 2.76 | 0.61 |
| Coarse sand | GS_CS | percent | 0.72 | 2.82 | 0.8 | 0.67 | 6.18 | 0.93 | 1.93 | 1.59 | 1.03 | 2.67 | 1.11 | 0.31 |
| Medium sand | GS_MS | percent | 1.22 | 4 | 1.42 | 0.9 | 6.21 | 2.59 | 4.59 | 5.36 | 3.83 | 3.41 | 1.31 | 0.77 |
| Fine sand | GS_FS | percent | 8.75 | 11.2 | 9.26 | 5.31 | 12.4 | 19.4 | 25.7 | 25.4 | 20.4 | 11.4 | 4.51 | 16.2 |
| Very fine sand | GS_VFS | percent | 25.4 | 20.2 | 17.2 | 11.4 | 16.3 | 34.7 | 33.5 | 23.2 | 18.6 | 17.8 | 13.5 | 27 |
| Fines | GS_FINES | percent | 60.5 T | 57.8 T | 65.5 T | 75.7 T | 45 T | 40.4 T | 33.2 T | 42.7 T | 39.6 T | 58.9 T | 71.8 T | 55.6 T |
| Coarse silt | GS_CSILT | percent | 34.3 | 30.2 | 32.5 | 47.7 | 20.3 | 22.5 | 17.4 | 16.4 | 16.1 | 36.1 | 44.5 | 33.8 |
| Medium silt | GS_MSILT | percent | 9.31 | 10.2 | 13.1 | 11.2 | 11.9 | 7.08 | 5.48 | 10 | 8.66 | 9.42 | 10.7 | 8.11 |
| Fine silt | GS_FSILT | percent | 6.6 | 6.99 | 7.56 | 6.95 | 4.86 | 3.85 | 3.71 | 5.99 | 5.96 | 5.76 | 7.59 | 5.04 |
| Very fine silt | GS_VFSILT | percent | 3.72 | 4.33 | 4.48 | 3.23 | 3.21 | 2.49 | 2.28 | 4.55 | 4.42 | 3.31 | 4.01 | 2.8 |
| 8-9 Phi clay | GS_CCLAY | percent | 2.49 | 2.32 | 2.99 | 1.27 | 2.28 | 1.75 | 1.58 | 3.14 | 2.2 | 1.88 | 2.64 | 2.13 |
| >9 Phi clay | GS_MFCLAY | percent | 4.07 | 3.72 | 4.88 | 5.34 | 2.44 | 2.76 | 2.72 | 2.61 | 2.24 | 2.4 | 2.37 | 3.72 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G751 | LW3-G752 | LW3-G753 | LW3-G754 | LW3-G755 | LW3-G756 | LW3-G758 | LW3-G759-1 | LW3-G759-2 | LW3-G760 | LW3-G761 | LW3-G763 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 22 | 0 - 29 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 31100 | 29300 | 25700 | 24300 | 27700 | 29400 | 23800 | 21700 | 23100 | 23700 | 30200 | 30100 T |
| Antimony | 7440-36-0 | mg/kg | 0.54 J | 0.76 J | 0.37 J | 0.33 J | 0.7 J | 0.54 J | 0.48 J | 0.32 J | 0.29 J | 0.67 J | 0.36 J | 0.565 JT |
| Arsenic | 7440-38-2 | mg/kg | 3.52 | 3.91 | 2.5 | 2.85 | 3.8 | 3.09 | 2.78 | 2.29 | 2.42 | 2.96 | 2.96 | 3.12 T |
| Cadmium | 7440-43-9 | mg/kg | 0.171 | 0.206 | 0.229 | 0.229 | 0.182 | 0.226 | 0.177 | 0.233 | 0.247 | 0.216 | 0.233 | 0.149 T |
| Chromium | 7440-47-3 | mg/kg | 32 | 32.2 | 26.3 | 25.8 | 35.8 | 29.6 | 24.6 | 26 | 28 | 23.7 | 26.1 | 27.6 T |
| Copper | 7440-50-8 | mg/kg | 38.2 | 49 | 36.1 | 34.8 | 97.3 | 33.1 | 30.6 | 31.4 | 34.5 | 30.2 | 33.7 | 33.1 T |
| Lead | 7439-92-1 | mg/kg | 10 J | 20 J | 13.9 | 12.8 | 25 J | 20 J | 12 J | 16.9 | 14.8 | 11.6 | 12.1 | 10.3 JT |
| Mercury | 7439-97-6 | mg/kg | 0.054 | 0.091 | 0.062 | 0.082 | 0.082 | 0.173 | 0.065 | 0.06 | 0.052 | 0.047 | 0.059 | 0.054 T |
| Nickel | 7440-02-0 | mg/kg | 26.4 | 26.3 | 23 | 21.5 | 24.3 | 24 | 22.5 | 23.5 | 25.1 | 21 J | 21.8 | 24.5 T |
| Silver | 7440-22-4 | mg/kg | 0.19 | 0.46 | 0.19 | 0.18 | 0.53 | 0.57 | 0.18 | 0.18 | 0.18 | 0.22 | 0.18 | 0.18 T |
| Zinc | 7440-66-6 | mg/kg | 84.5 | 115 | 110 | 97.5 | 125 | 91.8 | 83 | 96.2 | 96.6 | 90.4 | 110 | 80 T |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.2 J | 3 | 1.1 J | 1.8 J | 2.7 | 1.6 J | 0.78 J | 3.7 | 1 J | 0.7 J | 1.5 J | 1.2 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 1.6 J | 4.5 | 1.7 J | 2.4 J | 4.8 | 2.6 | 1.4 J | 3.7 | 1.7 J | 0.95 J | 2.5 J | 1.8 J |
| Acenaphthene | 83-32-9 | ug/kg | 1.5 J | 10 | 1.4 J | 2.2 J | 5.6 | 1.8 J | 0.73 J | 33 | 1.2 J | 1.4 J | 1.3 J | 3.2 |
| Acenaphthylene | 208-96-8 | ug/kg | 1.7 J | 3.5 | 2 J | 3.1 J | 30 | 2.4 J | 1.2 J | 14 | 2.6 | 0.81 J | 2.8 J | 2.8 |
| Anthracene | 120-12-7 | ug/kg | 3 | 11 | 4.7 | 5.8 | 20 | 5.5 | 2.9 | 29 | 8.6 | 2.4 J | 3.8 | 8.2 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 11 | 37 | 20 | 14 | 220 | 18 | 15 | 59 | 21 | 9.8 | 11 | 60 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 12 | 37 | 17 | 16 | 290 | 19 | 11 | 77 | 21 | 9.3 | 9.5 | 51 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 17 | 57 | 30 | 22 | 340 | 27 | 17 | 88 | 28 | 16 | 14 | 66 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 11 | 33 | 16 | 17 | 220 | 18 | 10 | 59 | 17 | 12 | 11 | 37 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 11 | 32 | 18 | 16 | 240 | 18 | 9.1 | 88 | 19 | 8.4 | 13 | 25 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 4.9 | 20 | 11 | 7.5 | 120 | 8.1 | 6 | 28 | 9.3 | 5 | 4.7 | 24 |
| Chrysene | 218-01-9 | ug/kg | 17 | 70 | 25 | 18 | 240 | 28 | 24 | 58 | 26 | 20 | 11 | 54 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 1.7 J | 5.2 | 3.6 | 2.4 J | 36 | 3 | 1.6 J | 9.4 | 3.1 | 1.4 U | 1.5 J | 6 |
| Dibenzothiophene | 132-65-0 | ug/kg | 1 J | 5.9 | 1.1 J | 1.3 J | 3.5 | 1.4 J | 0.48 J | 15 | 1 J | 0.72 J | 1 J | 1.5 J |
| Fluoranthene | 206-44-0 | ug/kg | 30 | 130 | 44 | 43 | 340 | 50 | 22 | 200 | 37 | 23 | 26 | 86 |
| Fluorene | 86-73-7 | ug/kg | 2 J | 12 | 1.9 J | 2.5 J | 5.5 | 2.8 | 1.5 J | 12 | 1.8 J | 1.2 J | 1.8 J | 3.8 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 8.6 | 30 | 15 | 14 | 250 | 15 | 7.6 | 73 | 18 | 8 | 12 | 28 |
| Naphthalene | 91-20-3 | ug/kg | 6 | 21 | 6.8 | 11 | 21 | 6.7 | 3.4 | 10 | 6.6 | 4 | 11 | 4 |
| Perylene | 198-55-0 | ug/kg | 16 | 32 | 14 | 19 | 100 | 17 | 8 | 25 | 13 | 5.7 | 12 | 17 |
| Phenanthrene | 85-01-8 | ug/kg | 14 | 98 | 17 | 22 | 76 | 23 | 9 | 170 | 16 | 11 | 16 | 27 |
| Pyrene | 129-00-0 | ug/kg | 27 | 110 | 41 | 46 | 340 | 49 | 24 | 250 | 42 | 23 | 28 | 90 |
| High Molecular Weight PAH | HPAH | ug/kg | 140 JT | 530 T | 220 T | 200 JT | 2400 T | 240 T | 140 JT | 930 T | 220 T | 120 T | 130 JT | 490 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 30 JT | 160 T | 36 JT | 49 JT | 160 T | 45 JT | 20 JT | 270 T | 39 JT | 22 JT | 39 JT | 51 JT |
| Total PAHs | 130498-29-2 | ug/kg | 170 JT | 690 T | 260 JT | 250 JT | 2600 T | 280 JT | 160 JT | 1200 T | 260 JT | 140 JT | 170 JT | 540 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 26 | 50 J | 12 | 13 | 200 | 57 | 19 | 22 | 19 | 16 | 9.1 | 50 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 2.3 J | 9 | 2.1 J | 3.3 J | 11 | 4.3 | 1.6 J | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 10 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 16 | 52 | 23 | 25 | 180 | 44 | 22 | 49 | 26 | 15 | 18 | 66 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 2 J | 8.9 | 2.4 J | 3.1 J | 8.8 | 2.8 | 1.5 J | 5.3 | 3.3 | 1.3 J | 2.3 J | 3.9 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 8.7 | 36 | 14 | 18 | 76 | 14 | 6.7 | 33 | 16 | 8.4 | 11 | 22 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 11 | 28 | 14 | 16 | 130 | 25 | 14 | 15 | 17 | 15 | 15 | 24 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 4.4 | 14 | 4.7 | 7.5 | 29 | 7.3 | 3 | 7.1 | 6.1 | 4.6 | 5.1 | 5.4 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 13 | 28 | 17 | 20 | 110 | 25 | 14 | 19 | 17 | 12 | 13 | 45 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 2.5 J | 12 | 3.4 | 6.4 | 15 | 6.1 | 3.3 | 4 | 4.1 | 2.9 J | 4.1 | 9.2 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 3.5 | 7.6 | 2.6 J | 4 | 7 | 4.8 | 2.1 J | 8 | 3.3 | 1.9 J | 4.3 | 4.2 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 13 | 39 | 11 | 16 | 110 | 31 | 15 | 12 | 10 | 7.9 | 11 | 44 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 12 | 23 | 17 | 20 | 120 | 23 | 14 | 14 | 18 | 20 | 16 | 17 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 3.9 | 15 | 7.9 | 10 | 53 | 9.6 | 4.9 | 5.5 | 5.7 | 5.8 | 7.2 | 5.5 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 8.8 | 20 | 13 | 14 | 77 | 14 | 8.7 | 8.8 | 10 | 8.7 | 9.3 | 22 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 6.6 | 18 | 6.3 | 7.8 | 34 | 9.7 | 6.2 | 5.3 | 5.8 | 0.5 U | 6.1 | 13 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 2.5 J | 9.6 | 2.8 J | 4.9 | 9.1 | 5 | 2.9 | 5.7 | 3.2 | 1.6 J | 3.6 J | 6.8 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 19 | 30 | 14 | 18 | 130 | 18 | 20 | 11 | 12 | 15 | 15 | 32 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 5.3 | 7.9 | 0.25 U | 0.25 U | 78 | 0.25 U | 0.25 U | 0.25 U | 8.4 | 0.25 U | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 3.7 | 12 | 3.1 | 6.4 | 17 | 6 | 4.9 | 3.4 | 4.6 | 2.7 J | 4.3 | 15 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 5.2 | 17 | 6.9 | 9.3 | 59 | 12 | 6.8 | 6.8 | 7 | 12 | 0.75 U | 8.9 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | 17.1 | | | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | 18.1 | | | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | 14 | | | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | 24.1 U | | | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | 49.6 | | | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | 24.1 U | | | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | 24.1 U | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G751 | LW3-G752 | LW3-G753 | LW3-G754 | LW3-G755 | LW3-G756 | LW3-G758 | LW3-G759-1 | LW3-G759-2 | LW3-G760 | LW3-G761 | LW3-G763 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 22 | 0 - 29 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | 205 | | | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | 24.1 U | | | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | 24.1 U | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | 54.9 | | | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | 62.3 | | | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | 46.9 | | | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | 70.9 | | | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | 35.2 | | | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | 61.9 | | | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | 44.5 | | | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | 12 U | | | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | 12 U | | | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | 18 | | | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | 26 | | | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | 149 | | | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | 12 U | | | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | 12 U | | | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | 111 | | | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | 12 U | | | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | 12 U | | | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | 12 U | | | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | 49.5 | | | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | 12 U | | | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | 12 U | | | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | 34.5 | | | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | 217 | | | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | 73.6 | | | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | 338 | | | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | 288 | | | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | 23.2 | | | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | 14.6 | | | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | 225 | | | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | 30.4 | | | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | 12 U | | | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | 56.5 | | | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | 443 | | | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | 78.3 | | | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | 12 U | | | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | 12 U | | | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | 111 | | | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | 12 U | | | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | 12 U | | | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | 353 | | | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | 12 U | | | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | 12 U | | | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | 12 U | | | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | 259 | | | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | 12 U | | | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | 12 U | | | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | 12 U | | | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | 111 | | | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | 28.1 | | | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | 12 U | | | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | 12 U | | | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | 12 U | | | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | 1.48 U | | | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | 87.3 | | | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | 12 U | | | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | 388 | | | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | 108 | | | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | 12 U | | | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | 264 | | | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | 164 | | | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | 12 U | | | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | 1090 | | | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | 12 U | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G751 | LW3-G752 | LW3-G753 | LW3-G754 | LW3-G755 | LW3-G756 | LW3-G758 | LW3-G759-1 | LW3-G759-2 | LW3-G760 | LW3-G761 | LW3-G763 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 22 | 0 - 29 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | 12 U | | | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | 774 | | | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | 12 U | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | 236 | | | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | 468 | | | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | 23.3 | | | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | 27.4 | | | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | 12 U | | | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | 221 | | | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | 723 | | | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | 56.4 | | | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | 35.4 UJ | | | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | 1060 | | | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | 12 U | | | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | 12 U | | | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | 11.5 J | | | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | 36.1 | | | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | 12 U | | | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | 12 U | | | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | 12 U | | | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | 10.8 U | | | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | 27.4 | | | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | 6.44 J | | | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | 12 U | | | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | 170 | | | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | 44.7 | | | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | 102 | | | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | 12 U | | | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | 413 | | | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | 60.2 | | | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | 84.1 | | | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | 303 | | | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | 295 | | | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | 45.1 | | | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | 1780 | | | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | 1680 | | | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | 19.6 | | | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | 467 | | | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | 91.2 | | | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | 12 U | | | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | 351 | | | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | 44 | | | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | 12 U | | | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | 12 U | | | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | 617 | | | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | 12 U | | | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | 2360 | | | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | 61.4 | | | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | 12 U | | | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | 129 | | | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | 21.3 | | | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | 167 | | | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | 12 U | | | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | 12 U | | | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | 53.7 | | | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | 12 U | | | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | 3.26 U | | | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | 832 | | | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | 203 | | | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | 145 | | | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | 17.3 | | | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | 982 | | | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | 50.1 | | | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | 138 | | | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | 570 | | | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | 235 | | | | | | | | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G751 | LW3-G752 | LW3-G753 | LW3-G754 | LW3-G755 | LW3-G756 | LW3-G758 | LW3-G759-1 | LW3-G759-2 | LW3-G760 | LW3-G761 | LW3-G763 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 22 | 0 - 29 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | 499 | | | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | 2310 | | | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | 12 U | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | 1430 | | | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | 642 | | | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | 12 U | | | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | 111 | | | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | 12 U | | | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | 12 U | | | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | 30.6 | | | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | 162 | | | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | 34.9 | | | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | 12 U | | | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | 101 | | | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | 574 | | | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | 221 | | | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | 699 | | | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | 24.5 | | | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | 35.3 | | | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | 653 | | | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | 76.2 | | | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | 80.7 | | | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | 102 | | | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | 12 U | | | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | 24.9 | | | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | 173 | | | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | 20.7 | | | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | 42.5 | | | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | 76.8 | | | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | 30100 JT | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | 0.683 JT | | | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | 49.2 T | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | 310 T | | | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | 675 T | | | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | 2680 T | | | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | 5770 JT | | | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | 9360 T | | | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | 8490 T | | | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | 2490 T | | | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | 236 T | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 1 U | 0.73 U | 0.54 U | 0.24 U | 0.16 U | 1.4 U | 0.44 U | 0.48 | 0.54 | 0.22 U | 0.24 U | 0.17 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.18 U | 0.22 U | 0.053 U | 0.061 U | 0.046 U | 0.51 U | 0.2 U | 0.19 U | 0.2 U | 0.062 U | 0.069 U | 0.39 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.47 U | 1.2 J | 0.98 U | 0.37 U | 0.52 U | 1.4 J | 0.43 U | 0.6 U | 1.1 NJ | 1.1 | 0.64 U | 0.48 J |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.99 | 0.93 | 0.69 J | 0.68 | 0.8 | 0.38 U | 0.45 | 0.4 | 0.36 J | 0.71 J | 0.68 | 1 |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.6 | 2 J | 1.2 | 1.4 | 1.5 J | 1 J | 0.86 | 0.8 | 1 J | 1.9 J | 1.4 | 1.6 |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.45 U | 2.1 U | 1.9 NJ | 1.2 U | 1.4 U | 3.5 J | 1.3 U | 1.8 J | 2 J | 3.6 J | 1.8 NJ | 1.2 U |
| Aldrin | 309-00-2 | ug/kg | 0.44 U | 0.14 U | 0.37 U | 0.57 U | 0.14 U | 0.4 U | 0.26 U | 0.37 J | 0.19 U | 0.5 U | 0.47 J | 0.93 J |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.22 J | 0.15 NJ | 0.23 J | 0.36 NJ | 0.29 | 0.31 U | 0.12 J | 0.14 U | 0.098 U | 0.29 U | 0.18 U | 0.19 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.11 U | 0.11 U | 0.12 U | 0.13 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.19 U | 0.15 U | 0.11 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.12 U | 0.23 U | 0.41 U | 0.041 U | 0.26 U | 0.36 U | 0.17 U | 0.12 U | 0.2 U | 1 NJ | 0.077 U | 0.033 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.28 | 0.26 NJ | 0.23 U | 0.21 U | 0.59 J | 0.2 U | 0.14 U | 0.14 U | 0.14 U | 0.51 U | 0.26 U | 0.15 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.11 U | 0.094 U | 0.19 NJ | 0.09 U | 0.3 U | 2.1 | 0.093 U | 0.092 U | 0.13 NJ | 0.15 U | 0.086 NJ | 0.033 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.6 U | 0.61 U | 0.51 U | 0.38 U | 0.59 U | 1.6 U | 0.34 U | 0.67 U | 0.91 U | 0.32 U | 0.3 U | 0.6 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.13 U | 0.13 U | 0.13 U | 0.18 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.33 U | 0.17 U | 0.12 U |
| Dieldrin | 60-57-1 | ug/kg | 0.034 U | 0.24 U | 0.3 U | 0.46 U | 0.24 NJ | 0.17 U | 0.15 J | 0.16 U | 0.17 U | 0.4 U | 0.64 U | 0.032 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.23 U | 0.22 U | 0.63 U | 0.34 U | 0.59 U | 0.2 U | 0.2 U | 0.19 U | 0.2 U | 1.5 U | 0.45 U | 0.22 U |
| Endrin | 72-20-8 | ug/kg | 0.079 U | 0.079 J | 0.23 U | 0.15 U | 0.071 U | 0.11 U | 0.071 U | 0.19 U | 0.2 U | 0.47 U | 0.23 U | 0.075 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.047 U | 0.22 U | 0.51 NJ | 0.27 U | 0.53 U | 0.28 U | 0.042 U | 0.19 U | 0.2 U | 0.85 U | 0.3 U | 0.045 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.22 U | 0.4 U | 0.28 U | 0.21 U | 0.26 U | 0.47 U | 0.33 U | 0.38 U | 0.36 U | 0.27 U | 0.13 U | 0.36 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.23 U | 0.13 U | 0.23 U | 0.36 U | 0.41 U | 0.41 U | 0.2 U | 0.19 U | 0.2 U | 0.41 U | 0.3 U | 0.14 U |
| Heptachlor | 76-44-8 | ug/kg | 0.085 U | 0.22 U | 0.087 U | 0.1 U | 0.2 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.71 J | 0.12 U | 0.48 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.23 U | 0.26 U | 0.23 U | 0.27 U | 0.34 U | 0.34 U | 0.2 U | 0.19 U | 0.2 U | 0.29 U | 0.3 U | 0.35 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.4 U | 0.39 U | 0.29 U | 0.65 U | 0.92 J | 0.24 U | 0.46 U | 0.45 U | 0.4 U | 0.74 U | 0.3 U | 0.079 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G751 | LW3-G752 | LW3-G753 | LW3-G754 | LW3-G755 | LW3-G756 | LW3-G758 | LW3-G759-1 | LW3-G759-2 | LW3-G760 | LW3-G761 | LW3-G763 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 22 | 0 - 29 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 0.16 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.17 U | 0.18 U | 0.13 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.32 U | 0.22 U | 0.31 U | 0.47 U | 0.2 U | 0.24 U | 0.31 U | 0.19 U | 0.2 U | 1.6 U | 0.65 U | 0.68 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.63 JT | 0.91 JT | 0.84 JT | 0.47 UT | 0.73 JT | 7.2 T | 0.33 JT | 0.43 T | 0.57 JT | 1.6 UT | 0.31 JT | 0.58 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.22 JT | 0.15 JT | 0.23 JT | 0.36 JT | 0.29 T | 0.36 UT | 0.12 JT | 0.19 UT | 0.2 UT | 1 JT | 0.45 UT | 0.19 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.99 T | 0.93 T | 0.69 JT | 0.68 T | 0.8 T | 1.4 UT | 0.45 T | 0.88 T | 0.9 JT | 0.71 JT | 0.68 T | 1 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 2.6 T | 4.1 JT | 3.8 JT | 2.1 T | 2.3 JT | 5.9 JT | 1.3 T | 3.5 JT | 5 JT | 7.3 JT | 3.9 JT | 3.1 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.6 T | 2 JT | 1.2 T | 1.4 T | 1.5 JT | 1 JT | 0.86 T | 0.8 T | 1 JT | 1.9 JT | 1.4 T | 1.6 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.47 UT | 1.2 JT | 1.9 JT | 1.2 UT | 1.4 UT | 4.9 JT | 1.3 UT | 1.8 JT | 3.1 JT | 4.7 JT | 1.8 JT | 0.48 JT |
| Toxaphene | 8001-35-2 | ug/kg | 24 U | 34 U | 29 U | 72 U | 27 U | 43 U | 24 U | 52 U | 59 U | 31 U | 29 U | 21 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.46 J | 0.91 NJ | 0.51 J | 0.25 U | 0.55 | 3.6 | 0.33 J | 0.43 | 0.44 J | 0.39 U | 0.3 U | 0.47 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.17 J | 0.22 U | 0.14 J | 0.18 U | 0.18 J | 1.5 | 0.098 U | 0.12 U | 0.086 U | 0.57 U | 0.22 J | 0.11 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 58 J | 120 J | 87 J | 81 J | 100 J | 85 J | 54 J | 62 J | 55 J | 110 J | 93 J | 52 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 34 J | 76 J | 64 J | 62 J | 74 J | 55 J | 33 J | 63 J | 55 J | 45 J | 64 J | 36 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 410 J | 550 J | 490 J | 490 J | 600 J | 520 J | 350 J | 310 J | 310 J | 620 J | 550 J | 350 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 150 J | 260 J | 260 J | 270 J | 310 J | 240 J | 160 J | 220 J | 220 J | 240 J | 300 J | 160 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 468 JA | 670 JA | 577 JA | 571 JA | 700 JA | 605 JA | 404 JA | 372 JA | 365 JA | 730 JA | 643 JA | 402 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 184 JA | 336 JA | 324 JA | 332 JA | 384 JA | 295 JA | 193 JA | 283 JA | 275 JA | 285 JA | 364 JA | 196 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.47 U | 0.46 U | 0.48 U | 0.55 U | 0.41 U | 0.41 U | 0.4 U | 0.4 U | 0.42 U | 0.56 U | 0.64 U | 0.44 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.38 U | 0.37 U | 0.39 U | 0.45 U | 0.33 U | 0.34 U | 0.32 U | 0.32 U | 0.34 U | 0.45 U | 0.52 U | 2.5 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.3 U | 1.2 U | 1.3 U | 1.5 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.5 U | 1.7 U | 1.2 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.25 U | 0.24 U | 0.25 U | 0.29 U | 0.22 U | 0.22 U | 0.21 U | 0.21 U | 0.22 U | 0.29 U | 0.34 U | 0.23 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 2.3 U | 2.2 U | 1.2 U | 6.6 U | 5 U | 5 U | 2 U | 1 U | 1 U | 1.4 U | 7.6 U | 1.1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 13 U | 12 U | 6.4 UJ | 37 UJ | 28 U | 28 U | 11 U | 5.5 UJ | 5.5 UJ | 7.5 UJ | 42 UJ | 5.8 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 38 U | 37 U | 20 U | 120 U | 85 U | 85 U | 34 U | 17 U | 17 U | 23 U | 130 U | 18 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 4.5 U | 4.3 U | 2.3 U | 14 U | 10 U | 10 U | 4 U | 2 U | 2 U | 2.8 U | 16 U | 2.1 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 3.4 U | 3.3 U | 1.8 U | 9.9 U | 7.5 U | 7.5 U | 3 U | 1.5 U | 1.5 U | 2.1 U | 12 U | 1.6 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 3.4 U | 3.3 U | 1.8 U | 9.9 U | 7.5 U | 7.5 U | 3 U | 1.5 U | 1.5 U | 2.1 U | 12 U | 1.6 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 3.2 U | 3 U | 1.7 U | 9.3 U | 7 U | 7 U | 2.8 U | 1.4 U | 1.4 U | 1.9 U | 11 U | 1.5 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 3.2 U | 3 U | 1.7 U | 9.3 U | 7 U | 7 U | 2.8 U | 1.4 U | 1.4 U | 1.9 U | 11 U | 2.4 J |
| 4-Methylphenol | 106-44-5 | ug/kg | 9 J | 16 J | 7.4 J | 19 J | 16 J | 16 J | 10 J | 3.1 J | 6.1 J | 380 J | 18 J | 4.4 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 40 U | 39 U | 21 U | 120 U | 90 U | 90 U | 36 U | 18 U | 18 U | 25 U | 140 U | 19 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 2.6 J | 6.5 U | 0.36 U | 5.1 NJ | 0.98 J | 59 | 2.7 J | 3.8 NJ | 3.2 U | 4.6 NJ | 4.9 NJ | 6 NJ |
| Phenol | 108-95-2 | ug/kg | 12 J | 7.9 J | 8.5 J | 14 U | 10 J | 12 J | 7.2 J | 5.1 J | 4.6 J | 130 | 16 U | 8.8 J |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 190 | 230 | 220 J | 330 J | 550 | 410 | 270 | 120 J | 160 J | 86 U | 280 J | 99 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 25 | 24 | 8.3 J | 22 U | 16 U | 16 U | 11 J | 9.1 J | 13 | 4.4 U | 25 U | 6.6 J |
| Dibutyl phthalate | 84-74-2 | ug/kg | 29 | 18 J | 20 U | 52 U | 40 U | 40 U | 33 | 20 U | 72 U | 19 | 60 U | 23 |
| Diethyl phthalate | 84-66-2 | ug/kg | 4.9 J | 4.8 J | 4.8 J | 9.4 J | 6.5 U | 6.5 U | 5.1 J | 4.3 J | 4.9 J | 4.8 J | 11 J | 4.2 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 2.3 U | 2.2 U | 1.2 U | 6.6 U | 5 U | 5 U | 2 U | 1 U | 1 U | 1.4 U | 7.6 U | 1.5 J |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 3.8 U | 3.7 U | 2 U | 12 U | 8.5 U | 8.5 U | 3.4 U | 1.7 U | 1.7 U | 2.3 U | 13 U | 1.8 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 5.8 U | 5.6 U | 3 U | 18 U | 13 U | 13 U | 5.2 U | 2.6 U | 2.6 U | 3.6 U | 20 U | 2.8 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 6.5 U | 6.2 U | 3.4 U | 20 U | 15 U | 15 U | 5.8 U | 2.9 U | 2.9 U | 4 U | 22 U | 3.1 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 6.7 U | 6.5 U | 3.5 U | 20 U | 15 U | 15 U | 6 U | 3 U | 3 U | 4.1 U | 23 U | 3.2 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 6.5 U | 6.2 U | 3.4 U | 20 U | 25 J | 42 J | 5.8 U | 2.9 U | 2.9 U | 4 U | 22 U | 3.1 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 3.4 U | 3.3 U | 1.8 U | 9.9 U | 7.5 U | 7.5 U | 3 U | 1.5 U | 1.5 U | 2.1 U | 12 U | 1.6 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 4.5 U | 4.3 U | 2.3 U | 14 U | 10 U | 10 U | 4 U | 2 U | 2 U | 2.8 U | 16 U | 2.1 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 3.6 U | 3.5 U | 1.9 U | 11 U | 8 U | 8 U | 3.2 U | 1.6 U | 1.6 U | 2.2 U | 13 U | 1.7 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 7.2 U | 6.9 U | 3.7 U | 22 U | 16 U | 16 U | 6.4 U | 3.2 U | 3.2 U | 4.4 U | 25 U | 3.4 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 8.3 U | 8 U | 4.3 UJ | 25 UJ | 19 U | 19 U | 7.4 U | 3.7 UJ | 3.7 UJ | 5 U | 28 UJ | 3.9 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 5.6 U | 5.4 U | 2.9 U | 17 U | 13 U | 13 U | 5 U | 2.5 U | 2.5 U | 3.4 U | 19 U | 2.7 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 3.6 U | 3.5 U | 1.9 U | 11 U | 8 U | 8 U | 3.2 U | 1.6 U | 1.6 U | 2.2 U | 13 U | 1.7 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 4.3 U | 4.1 U | 2.2 U | 13 U | 12 J | 9.5 U | 3.8 U | 1.9 U | 1.9 U | 2.6 U | 15 U | 2 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 3.2 U | 3 U | 1.7 U | 9.3 U | 7 U | 7 U | 2.8 U | 1.4 U | 1.4 U | 1.9 U | 11 U | 1.5 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 4 U | 3.9 U | 2.1 U | 12 U | 9 U | 9 U | 3.6 U | 1.8 U | 1.8 U | 2.5 U | 14 U | 1.9 U |
| Aniline | 62-53-3 | ug/kg | 3.4 U | 3.3 U | 1.8 U | 9.9 U | 7.5 U | 7.5 U | 3 U | 1.5 U | 1.5 U | 2.1 U | 12 U | 1.6 U |
| Azobenzene | 103-33-3 | ug/kg | 2.5 U | 2.4 U | 1.3 U | 7.3 U | 5.5 U | 5.5 U | 2.2 U | 1.1 U | 1.1 U | 1.5 U | 8.3 U | 1.2 U |
| Benzoic acid | 65-85-0 | ug/kg | 220 U | 210 U | 120 U | 640 U | 480 U | 480 U | 200 U | 96 U | 96 U | 190 J | 730 U | 110 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 13 J | 10 J | 8.5 J | 14 U | 11 U | 11 U | 11 J | 5 J | 4 J | 24 | 18 J | 7.2 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 3.4 U | 3.3 U | 1.8 U | 9.9 U | 7.5 U | 7.5 U | 3 U | 1.5 U | 1.5 U | 2.1 U | 12 U | 1.6 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 4.3 U | 4.1 U | 2.2 U | 13 U | 9.5 U | 9.5 U | 3.8 U | 1.9 U | 1.9 U | 2.6 U | 15 U | 2 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 5.8 U | 5.6 U | 3 U | 18 U | 13 U | 13 U | 5.2 U | 2.6 U | 2.6 U | 3.6 U | 20 U | 2.8 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G751 | LW3-G752 | LW3-G753 | LW3-G754 | LW3-G755 | LW3-G756 | LW3-G758 | LW3-G759-1 | LW3-G759-2 | LW3-G760 | LW3-G761 | LW3-G763 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 30 | 0 - 30 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 22 | 0 - 29 | 0 - 30 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 3.2 J | 7.4 J | 4 J | 8.6 U | 8.6 J | 6.5 U | 2.6 U | 4.7 J | 2.7 J | 2.8 J | 9.9 U | 5.5 J |
| Dibenzofuran | 132-64-9 | ug/kg | 1.5 J | 6.9 | 1.3 J | 2 J | 4.9 | 1.6 J | 0.82 J | 1.9 J | 1.2 J | 0.82 J | 1.8 J | 2.2 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.25 | 0.19 J | 1.4 | 0.27 U | 0.18 J | 0.27 | 0.068 U | 1.2 U | 1.2 U | 0.45 U | 0.3 U | 0.22 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.16 U | 0.16 U | 2.9 U | 0.71 | 0.41 U | 0.14 U | 0.14 U | 0.26 U | 2.5 U | 0.2 U | 0.73 U | 0.15 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 65 U | 62 U | 34 U | 200 U | 150 U | 150 U | 58 U | 29 U | 29 U | 40 U | 220 U | 31 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.18 U | 0.18 U | 0.19 U | 0.21 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.22 U | 0.24 U | 0.17 U |
| Isophorone | 78-59-1 | ug/kg | 2.3 U | 2.2 U | 1.2 U | 6.6 U | 5 U | 5 U | 2 U | 1 U | 1 U | 1.4 U | 7.6 U | 1.1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 4.9 U | 4.8 U | 2.6 U | 15 U | 11 U | 11 U | 4.4 U | 2.2 U | 2.2 U | 3 U | 17 U | 2.4 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 14 U | 14 U | 7 U | 41 U | 31 U | 31 U | 13 U | 6.1 U | 6.1 U | 8.3 U | 46 U | 6.4 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 3.6 U | 3.5 U | 1.9 U | 11 U | 8 U | 8 U | 3.2 U | 1.6 U | 1.6 U | 2.2 U | 13 U | 1.7 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 5.4 U | 5.2 U | 2.8 U | 16 U | 12 U | 12 U | 4.8 U | 2.4 U | 2.4 U | 3.3 U | 19 U | 2.6 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G764 | LW3-G765 | LW3-G766 | LW3-G767 | LW3-G768 | LW3-G769 | LW3-G770 | LW3-G771 | LW3-G772 | LW3-G774 | LW3-G775 | LW3-G776 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 27 | 0 - 30 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 23 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 4.2 U | 4.5 U | 1.3 U | 1.4 U | 6.5 U | 1.4 U | 1.5 U | 1.3 U | 1.4 U | 1.5 U | 1.3 U | 6.5 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 1.7 U | 1.3 U | 1.4 U | 4.9 U | 1.4 U | 1.5 U | 1.3 U | 1.4 U | 1.5 U | 1.3 U | 6.5 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 6 U | 1.3 U | 1.3 U | 1.4 U | 12 U | 1.4 U | 1.5 U | 1.3 U | 1.4 U | 1.5 U | 1.3 U | 6.5 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 4.2 U | 3.2 U | 1.3 U | 1.4 U | 3 U | 1.4 U | 2.6 U | 6.4 NJ | 1.4 U | 1.5 U | 1.3 U | 6.5 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.5 U | 1.3 U | 1.4 U | 1.5 U | 1.3 U | 6.5 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 4.9 U | 4.3 U | 5.6 | 4.1 J | 6.1 J | 8.9 | 8.5 NJ | 29 | 6.7 | 5.4 J | 5.7 | 6.5 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 17 | 5.1 | 11 | 4.2 | 6.2 J | 7.3 | 14 | 55 | 7.3 | 4.2 | 6.7 | 480 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.5 U | 1.3 U | 1.4 U | 1.5 U | 1.3 U | 6.5 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.5 U | 2.1 U | 1.4 U | 1.5 U | 1.3 U | 6.5 U |
| Aroclors | 12767-79-2 | ug/kg | 17 T | 5.1 T | 16.6 T | 8.3 JT | 12.3 JT | 16.2 T | 22.5 JT | 90.4 JT | 14 T | 9.6 JT | 12.4 T | 480 T |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | 31.1 | 59.7 | | 94.3 | | | 79.4 | | 78.8 | 36.5 T |
| Specific Gravity | SPEC_GRAV | NA | 1.65 | 1.43 | 1.75 | 1.75 | 1.29 | 1.72 | 1.31 | 1.52 | 1.67 | 1.61 | 1.79 | 1.73 |
| Sulfide | 18496-25-8 | mg/kg | | | 1.6 | 5.6 | | 5.9 | | | 3.8 | 0.45 U | 3.6 | 2.4 |
| Total organic carbon | TOC | percent | 1.15 | 1.55 | 1.24 | 1.46 T | 1.62 | 1.64 | 2.26 | 1.14 | 2.06 | 1.52 | 1.24 | 0.75 |
| Total solids | TSO | percent | 62.3 | 51 | 51.2 | 49 | 51.8 | 49.8 | 44.1 | 62 | 48.8 | 45.4 | 51.8 | 66.2 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | | | | | 17.6 JA |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.1 | 0 | 7.59 | 0.12 | 0.67 | 0.77 | 2.46 | 0.04 | 0.58 | 0.25 | 0 | 0.84 |
| Fine gravel | GS_FG | percent | 0.32 | 0.31 | 3.79 | 0.32 | 0.58 | 3.37 | 4.91 | 2.57 | 1.79 | 0.99 | 0.48 | 0.47 |
| Very coarse sand | GS_VCS | percent | 1.77 | 0.5 | 2.22 | 0.31 | 0.43 | 4.76 | 1.4 | 2.35 | 1.46 | 0.95 | 0.94 | 1.12 |
| Coarse sand | GS_CS | percent | 16.7 | 0.43 | 6.49 | 0.35 | 0.35 | 3.95 | 1.15 | 3.95 | 2.65 | 0.8 | 2.53 | 4.8 |
| Medium sand | GS_MS | percent | 35.2 | 0.79 | 18.7 | 0.81 | 1.01 | 3.97 | 2.13 | 14.9 | 3.84 | 8.06 | 12.5 | 26.5 |
| Fine sand | GS_FS | percent | 10.4 | 11 | 18.4 | 16.7 | 17.3 | 17.7 | 10.2 | 23.6 | 14.5 | 36.9 | 24.2 | 35.3 |
| Very fine sand | GS_VFS | percent | 7.97 | 27.9 | 11.8 | 26 | 20.6 | 20.7 | 12.4 | 19.1 | 29.3 | 13.7 | 27.1 | 12.8 |
| Fines | GS_FINES | percent | 25.7 T | 54.3 T | 35.7 T | 55.6 T | 53.7 T | 40 T | 62.9 T | 24.7 T | 48 T | 39.5 T | 32.5 T | 14 T |
| Coarse silt | GS_CSILT | percent | 13.2 | 25.9 | 21.1 | 31.7 | 30.5 | 22.4 | 32 | 12.4 | 26.1 | 21.4 | 15 | 4.91 |
| Medium silt | GS_MSILT | percent | 4.55 | 10.5 | 5.54 | 8.8 | 8.15 | 7.84 | 11.8 | 3.99 | 7.59 | 7.02 | 9.22 | 3.25 |
| Fine silt | GS_FSILT | percent | 3.14 | 6.02 | 3.48 | 4.71 | 5.66 | 3.29 | 7.42 | 3.02 | 4.91 | 4.43 | 3.77 | 1.79 |
| Very fine silt | GS_VFSILT | percent | 1.77 | 4.02 | 2.23 | 4.29 | 3.63 | 2.91 | 5.17 | 2.28 | 3.6 | 3.26 | 2.31 | 2.16 |
| 8-9 Phi clay | GS_CCLAY | percent | 1.28 | 3.19 | 1.42 | 2.78 | 2.49 | 1.34 | 2.54 | 1.27 | 2.56 | 1.67 | 1.11 | 0.69 |
| >9 Phi clay | GS_MFCLAY | percent | 1.79 | 4.63 | 1.91 | 3.33 | 3.23 | 2.24 | 3.98 | 1.76 | 3.23 | 1.72 | 1.12 | 1.19 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G764 | LW3-G765 | LW3-G766 | LW3-G767 | LW3-G768 | LW3-G769 | LW3-G770 | LW3-G771 | LW3-G772 | LW3-G774 | LW3-G775 | LW3-G776 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 27 | 0 - 30 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 23 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 16500 | 25100 | 20600 | 30800 | 24600 | 29800 | 26100 | 15700 | 28600 | 25300 | 26300 | 14200 |
| Antimony | 7440-36-0 | mg/kg | 0.27 J | 0.36 J | 0.47 J | 0.47 J | 0.13 J | 0.44 J | 0.17 J | 0.15 J | 0.53 J | 0.41 J | 0.5 J | 0.57 J |
| Arsenic | 7440-38-2 | mg/kg | 2.29 | 2.08 | 2.86 | 3.17 | 4.19 | 3.25 | 5.52 | 3.28 | 3.22 | 3.05 | 2.97 | 2.15 |
| Cadmium | 7440-43-9 | mg/kg | 0.127 | 0.184 | 0.148 | 0.134 | 0.158 | 0.148 | 0.219 | 0.195 | 0.211 | 0.132 | 0.126 | 0.205 |
| Chromium | 7440-47-3 | mg/kg | 17.6 | 23.5 | 20.4 | 31.3 | 29.3 | 31.4 | 28.7 | 20.6 | 32.2 | 23.8 | 26.8 | 20.2 |
| Copper | 7440-50-8 | mg/kg | 22.4 | 30.8 | 24.5 | 30.5 | 34.2 | 33.3 | 38.7 | 27.6 | 37.8 | 28.3 | 29.4 | 25.4 |
| Lead | 7439-92-1 | mg/kg | 9.96 | 11 | 10 J | 8.5 J | 16.7 | 12 J | 18.6 | 35.1 | 19 J | 9.4 J | 9.3 J | 179 |
| Mercury | 7439-97-6 | mg/kg | 0.04 | 0.048 | 0.056 | 0.05 | 0.053 J | 0.05 | 0.132 J | 0.094 J | 0.04 | 0.043 | 0.047 | 0.037 |
| Nickel | 7440-02-0 | mg/kg | 17.9 | 21.4 | 20.2 | 23.5 | 24.8 | 24.5 | 23.1 | 20.8 | 25.2 | 22.5 | 22.7 | 19.4 J |
| Silver | 7440-22-4 | mg/kg | 0.1 | 0.19 | 0.17 | 0.17 | 0.17 | 0.19 | 0.42 | 0.17 | 0.31 | 0.15 | 0.17 | 0.17 |
| Zinc | 7440-66-6 | mg/kg | 78.8 | 93.6 | 82.2 | 84.1 | 98.5 | 87.8 | 114 | 103 | 105 | 81.9 | 84.1 | 90 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.1 J | 1.4 J | 0.83 J | 0.94 J | 1.1 J | 1.3 J | 1.5 J | 2.3 | 3.6 | 1.5 J | 1.5 J | 2.2 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 1.5 J | 2.1 J | 1.1 J | 1.5 J | 1.7 J | 2.4 J | 2.2 J | 4.2 | 6.2 | 2.2 J | 2.2 J | 3.5 |
| Acenaphthene | 83-32-9 | ug/kg | 2.4 | 2.7 | 5.5 | 0.91 J | 2 J | 1.6 J | 1.9 J | 4.9 | 6.8 | 3.1 | 2.6 | 3 |
| Acenaphthylene | 208-96-8 | ug/kg | 1.4 J | 3.1 | 1.3 J | 1.6 J | 2.5 | 2.1 J | 4 | 3.3 | 3 | 4.3 | 2.6 | 2.4 |
| Anthracene | 120-12-7 | ug/kg | 2.1 | 6.7 | 2.9 | 1.6 J | 2.8 | 2.6 | 4.1 | 9.8 | 16 | 4.5 | 5.2 | 5.2 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 8.8 | 16 | 8.3 | 8.7 | 11 | 12 | 16 | 46 | 50 | 16 | 13 | 25 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 7.7 | 17 | 8.7 | 9.7 | 14 | 13 | 17 | 35 | 48 | 20 | 15 | 32 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 13 | 25 | 12 | 12 | 17 | 18 | 22 | 58 | 62 | 26 | 18 | 38 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 8 | 17 | 8.2 | 8.6 | 11 | 10 | 14 | 32 | 42 | 16 | 13 | 24 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 9.9 | 20 | 8.9 | 10 | 15 | 12 | 16 | 26 | 50 | 18 | 15 | 27 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 3.3 | 7.4 | 4.2 | 4.1 | 5.1 | 5.2 | 6.6 | 17 | 19 | 7.9 | 5.5 | 11 |
| Chrysene | 218-01-9 | ug/kg | 11 | 23 | 11 | 11 | 15 | 16 | 21 | 62 | 64 | 22 | 17 | 33 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 1.1 J | 2.8 | 1.3 J | 1.4 J | 2.1 U | 1.8 J | 2.4 U | 5.6 | 7.4 | 2.4 J | 2.2 J | 4.9 |
| Dibenzothiophene | 132-65-0 | ug/kg | 1.2 J | 1.5 J | 0.76 J | 0.54 J | 1 J | 0.92 J | 1.5 J | 3.7 | 4.9 | 1.7 J | 1.3 J | 2.3 |
| Fluoranthene | 206-44-0 | ug/kg | 22 | 41 | 21 | 18 | 27 | 24 | 40 | 96 | 130 | 43 | 30 | 54 |
| Fluorene | 86-73-7 | ug/kg | 1.9 J | 3.3 | 1.6 J | 1.1 J | 1.7 J | 1.7 J | 2.5 J | 6.3 | 7.6 | 2.4 J | 2.3 J | 3.2 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 8.5 | 18 | 6.7 | 8.1 | 14 | 10 | 13 | 23 | 36 | 17 | 12 | 26 |
| Naphthalene | 91-20-3 | ug/kg | 6 | 8.6 | 5.5 | 8.5 | 6.5 | 7.7 | 13 | 15 | 40 | 19 | 9.3 | 13 |
| Perylene | 198-55-0 | ug/kg | 6.9 | 33 | 5.5 | 9.4 | 16 | 15 | 15 | 25 | 23 | 11 | 14 | 14 |
| Phenanthrene | 85-01-8 | ug/kg | 13 | 25 | 12 | 8.9 | 16 | 13 | 23 | 53 | 78 | 25 | 18 | 28 |
| Pyrene | 129-00-0 | ug/kg | 29 | 40 | 24 | 19 | 28 | 25 | 40 | 83 | 150 | 46 | 32 | 54 |
| High Molecular Weight PAH | HPAH | ug/kg | 110 JT | 210 T | 110 JT | 100 JT | 150 T | 140 JT | 190 T | 450 T | 620 T | 220 JT | 160 JT | 300 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 28 JT | 52 JT | 30 JT | 24 JT | 33 JT | 31 JT | 51 JT | 97 T | 160 T | 61 JT | 42 JT | 58 T |
| Total PAHs | 130498-29-2 | ug/kg | 140 JT | 260 JT | 140 JT | 130 JT | 180 JT | 170 JT | 240 JT | 550 T | 770 T | 280 JT | 200 JT | 360 T |
| C1-Chrysene | C1_218-01-9 | ug/kg | 7.6 | 29 J | 11 | 14 J | 15 J | 21 J | 31 | 45 | 88 | 15 | 22 J | 33 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 1.5 J | 2.7 | 1.7 J | 1.1 J | 2.1 J | 1.6 J | 6.8 | 11 | 10 | 2.3 J | 2.7 | 5.9 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 16 | 25 | 13 | 12 | 18 | 17 | 31 | 59 | 80 | 18 | 19 | 74 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 1.9 J | 3.1 | 1.8 J | 1.7 J | 1.9 J | 2.9 | 3.2 | 5.6 | 10 | 1.9 J | 2.7 | 3 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 13 | 17 | 6.1 | 6.3 | 11 | 9.4 | 19 | 39 | 62 | 8.5 | 12 | 20 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 10 | 19 | 13 | 9 | 12 | 12 | 42 | 42 | 100 | 11 | 16 | 43 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 6.9 | 7.4 | 2.7 | 2.5 J | 4.9 | 5.1 | 14 | 17 | 49 | 3.9 | 6.9 | 9.9 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 11 | 21 | 9.7 | 9.5 | 14 | 12 | 36 | 36 | 69 | 12 | 16 | 38 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 3.3 | 7.4 | 2.9 | 3 | 4.2 | 4.2 | 9.8 | 15 | 24 | 3.2 | 5.4 | 7.8 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 3.1 | 4.2 | 2.2 J | 2.4 J | 3.1 | 2.9 | 4.8 | 12 | 8.4 | 2.9 | 3.9 | 7.3 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 15 | 14 | 12 | 8.4 | 9.2 | 15 | 22 | 38 | 100 | 11 | 18 | 25 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 11 | 20 | 12 | 9.9 | 13 | 13 | 50 | 45 | 110 | 12 | 16 | 55 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 7.3 | 9.5 | 3 | 2.9 | 5.8 | 6.2 | 26 | 19 | 83 | 4.4 | 5.7 | 12 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 8.6 | 15 | 6.5 | 6.3 | 10 | 9.1 | 48 | 32 | 61 | 7.2 | 11 | 33 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 5.1 | 8.3 | 3.5 | 3.6 | 5.7 | 6.3 | 17 | 20 | 39 | 4.5 | 6.5 | 11 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 3.1 | 4.3 | 1.6 J | 2.2 J | 3.5 | 2.6 | 6.1 | 18 | 11 | 2.9 | 3.8 | 8.2 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 19 | 16 | 14 | 8.5 | 12 | 11 | 70 | 37 | 140 | 9.4 | 13 | 140 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 13 | 5.4 | 0.25 U | 11 | 0.25 U | 28 | 39 | 66 | 0.25 U | 5.8 | 41 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 3.6 | 6.2 | 2.1 J | 3 | 4.8 | 4.5 | 12 | 25 | 18 | 2.9 | 4.4 | 9 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 13 | 11 | 6.2 | 7.7 | 7.2 | 11 | 57 | 20 | 84 | 10 | 12 | 17 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | | 55.5 |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | | 13.4 J |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | | 25.6 J |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | | 1700 |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | | 631 |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | | 165 |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | | 65.5 J |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G764 | LW3-G765 | LW3-G766 | LW3-G767 | LW3-G768 | LW3-G769 | LW3-G770 | LW3-G771 | LW3-G772 | LW3-G774 | LW3-G775 | LW3-G776 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 27 | 0 - 30 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 23 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | | 77.5 J |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | | 53.4 J |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | | 96.2 U |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | | 296 |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | | 2730 |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | | 1460 |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | | 900 |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | | 3200 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | | 882 |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | | 724 |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | | 370 |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | | 675 |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | | 504 |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | | 8870 |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | | 2560 |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | | 22.7 J |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | | 26.6 J |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | | 307 |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | | 1350 |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | | 9.68 J |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | | 113 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | | 10900 |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | | 3470 |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | | 34400 |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | | 2210 |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | | 128 |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | | 943 |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | | 54600 |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | | 2110 |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | | 196 |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | | 10400 |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | | 8670 |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | | 7490 |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | | 1040 |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | | 766 |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | | 495 |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | | 102 |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | | 23.9 J |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | | 4820 |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | | 751 |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | | 18600 |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | | 33.1 J |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | | 1970 |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | | 690 |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | | 927 |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | | 68.7 |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | | 620 |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | | 8.42 J |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | | 492 |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | | 15100 |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | | 1470 |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | | 9170 |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | | 23100 |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | | 72000 |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | | 48.1 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G764 | LW3-G765 | LW3-G766 | LW3-G767 | LW3-G768 | LW3-G769 | LW3-G770 | LW3-G771 | LW3-G772 | LW3-G774 | LW3-G775 | LW3-G776 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 27 | 0 - 30 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 23 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | | 1450 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | | 38900 |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | | 1730 |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | | 3870 |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | | 26300 |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | | 4080 |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | | 2680 |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | | 190 |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | | 4080 |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | | 43800 |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | | 7200 |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | | 1950 |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | | 47800 |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | | 317 |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | | 370 |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | | 99 |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | | 7100 |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | | 887 |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | | 313 |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | | 58 UJ |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | | 212 |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | | 463 |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | | 153 |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | | 13200 |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | | 3010 |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | | 6840 |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | | 42300 |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | | 3630 |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | | 8020 |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | | 28900 |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | | 31900 |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | | 2350 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | | 213000 |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | | 233000 |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | | 843 |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | | 52300 |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | | 12700 |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | | 9.52 J |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | | 28700 |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | | 5930 |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | | 266 |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | | 603 |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | | 74500 |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | | 303 |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | | 258000 |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | | 2190 |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | | 24.1 J |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | | 16000 |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | | 1710 |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | | 19300 |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | | 182 |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | | 5900 |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | | 362 |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | | 18.8 U |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | | 95600 |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | | 24300 |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | | 14900 |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | | 2300 |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | | 112000 |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | | 5310 |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | | 16000 |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | | 58000 |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | | 21700 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G764 | LW3-G765 | LW3-G766 | LW3-G767 | LW3-G768 | LW3-G769 | LW3-G770 | LW3-G771 | LW3-G772 | LW3-G774 | LW3-G775 | LW3-G776 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 27 | 0 - 30 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 23 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | | 51800 |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | | 256000 |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | | 365 |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | | 147000 |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | | 70000 |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | | 29.8 J |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | | 11700 |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | | 87.3 |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | | 3400 |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | | 21000 |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | | 4100 |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | | 11200 |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | | 53800 |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | | 22900 |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | | 69500 |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | | 2030 |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | | 2960 |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | | 58600 |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | | 7870 |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | | 6670 |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | | 7630 |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | | 48.1 U |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | | 2570 |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | | 8940 |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | | 1320 |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | | 1480 |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | | 173 |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | | 2750000 JT |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | | 17.6 JT |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | | 94.5 JT |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | | 2990 JT |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | | 24600 JT |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | | 167000 JT |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | | 315000 T |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | | 1070000 JT |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | | 927000 JT |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | | 235000 T |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | | 11700 T |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.47 | 0.16 U | 0.38 U | 0.18 U | 0.19 U | 0.47 J | 0.49 U | 2.1 J | 2.1 U | 0.18 U | 0.32 U | 6.4 |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.16 U | 0.2 U | 0.52 U | 0.047 U | 0.2 U | 0.21 U | 0.23 U | 0.7 U | 0.048 U | 0.45 NJ | 0.2 U | 1.3 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.39 U | 0.42 U | 0.44 U | 0.22 U | 0.36 U | 0.81 | 0.68 U | 3.6 NJ | 0.91 U | 0.43 U | 0.39 U | 6.1 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.27 | 0.69 | 0.58 | 0.5 | 0.46 | 0.72 | 0.45 | 0.52 | 0.93 J | 0.47 | 0.58 | 0.53 NJ |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.59 | 1.3 J | 1 | 0.97 | 1.1 J | 1.3 | 1.7 J | 1.6 NJ | 1.9 J | 1 | 1 | 0.28 U |
| 4,4'-DDT | 50-29-3 | ug/kg | 1.6 | 0.44 U | 1.5 U | 0.37 U | 0.57 U | 0.29 U | 2.7 NJ | 4.1 | 0.55 U | 1.4 | 0.55 U | 49 J |
| Aldrin | 309-00-2 | ug/kg | 0.2 | 0.29 U | 0.2 U | 0.37 U | 0.24 J | 0.24 NJ | 0.14 U | 0.24 U | 0.39 U | 0.48 U | 0.36 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.46 J | 0.22 J | 0.2 J | 0.2 NJ | 0.17 J | 0.18 J | 0.31 NJ | 0.17 U | 1.2 J | 0.11 U | 0.26 NJ | 0.19 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.099 U | 0.097 U | 0.098 U | 0.11 U | 0.097 U | 0.19 U | 0.11 U | 0.097 U | 0.18 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.16 U | 0.039 U | 0.22 U | 0.032 U | 0.09 U | 0.15 U | 0.18 U | 0.53 U | 0.18 U | 0.22 U | 0.13 U | 0.55 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.16 U | 0.14 U | 0.14 U | 0.15 U | 0.14 U | 0.15 U | 0.19 U | 0.14 U | 0.15 U | 0.16 U | 0.22 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.067 U | 0.031 U | 0.032 U | 0.031 U | 0.054 U | 0.036 U | 0.031 U | 0.16 U | 0.034 U | 0.06 U | 0.15 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.94 U | 0.28 U | 0.35 U | 0.3 U | 2 U | 0.48 U | 0.94 U | 3.9 U | 0.67 U | 0.33 U | 0.46 U | 0.42 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.11 U | 0.11 U | 0.12 U | 0.11 U | 0.12 U | 0.13 U | 0.11 U | 0.12 U | 0.12 U | 0.11 U | 0.52 U |
| Dieldrin | 60-57-1 | ug/kg | 0.16 U | 0.24 | 0.03 U | 0.031 U | 0.45 J | 0.21 U | 0.82 J | 0.58 J | 0.25 U | 0.32 U | 0.03 U | 0.2 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.2 U | 0.54 U | 0.21 U | 0.058 U | 0.21 U | 0.23 U | 0.17 U | 0.21 U | 0.22 U | 0.2 U | 0.15 U |
| Endrin | 72-20-8 | ug/kg | 0.13 U | 0.15 U | 0.071 U | 0.073 U | 0.15 U | 0.072 U | 0.081 U | 1.1 U | 0.073 U | 0.077 U | 0.071 U | 4.3 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.21 U | 0.2 U | 0.2 U | 0.043 U | 0.24 U | 0.043 U | 0.23 U | 0.57 U | 0.21 U | 0.046 U | 0.042 U | 4.5 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.32 U | 0.18 U | 0.23 U | 0.18 U | 0.22 U | 0.26 U | 0.27 U | 0.89 U | 0.18 U | 0.15 U | 0.24 U | 11 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 0.2 U | 0.13 U | 0.21 U | 0.2 U | 0.21 U | 0.34 U | 0.17 U | 0.31 U | 0.18 U | 0.2 U | 0.1 J |
| Heptachlor | 76-44-8 | ug/kg | 0.16 U | 0.076 U | 0.31 U | 0.078 U | 0.076 U | 0.077 U | 0.086 U | 0.48 NJ | 0.21 U | 0.22 U | 0.076 U | 0.15 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.068 U | 0.068 U | 0.26 U | 0.21 U | 0.2 U | 0.21 U | 0.23 U | 0.27 U | 0.21 U | 0.22 U | 0.2 U | 0.42 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.27 U | 0.075 U | 1.3 U | 0.21 U | 0.67 U | 0.74 U | 0.62 U | 0.83 U | 0.45 U | 0.23 U | 0.34 U | 0.15 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G764 | LW3-G765 | LW3-G766 | LW3-G767 | LW3-G768 | LW3-G769 | LW3-G770 | LW3-G771 | LW3-G772 | LW3-G774 | LW3-G775 | LW3-G776 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 27 | 0 - 30 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 23 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.13 U | 0.12 U | 0.13 U | 0.14 U | 0.12 U | 0.13 U | 0.14 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.16 U | 0.17 J | 0.17 U | 0.27 U | 0.2 U | 0.3 U | 0.34 | 0.061 U | 0.14 U | 1.6 U | 0.27 U | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.37 JT | 0.4 JT | 0.43 T | 0.43 JT | 0.3 T | 0.46 JT | 1.1 JT | 3.9 UT | 1.1 JT | 0.34 JT | 0.43 JT | 2.1 UT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.46 JT | 0.22 JT | 0.2 JT | 0.2 JT | 0.17 JT | 0.18 JT | 0.31 JT | 0.53 UT | 1.2 JT | 0.22 UT | 0.26 JT | 0.55 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.74 T | 0.69 T | 0.58 T | 0.5 T | 0.46 T | 1.2 JT | 0.45 T | 2.6 JT | 0.93 JT | 0.47 T | 0.58 T | 6.9 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 2.9 T | 2 JT | 1.6 T | 1.5 T | 1.6 JT | 3.3 JT | 4.9 JT | 12 JT | 2.8 JT | 3.3 JT | 1.6 T | 56 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.59 T | 1.3 JT | 1 T | 0.97 T | 1.1 JT | 1.3 T | 1.7 JT | 1.6 JT | 1.9 JT | 1.5 JT | 1 T | 1.3 UT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 1.6 T | 0.44 UT | 1.5 UT | 0.37 UT | 0.57 UT | 0.81 T | 2.7 JT | 7.7 JT | 0.91 UT | 1.4 T | 0.55 UT | 49 JT |
| Toxaphene | 8001-35-2 | ug/kg | 28 U | 16 U | 35 U | 15 U | 41 U | 22 U | 18 U | 120 U | 50 U | 14 U | 15 U | 440 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.37 J | 0.23 J | 0.43 | 0.34 J | 0.3 | 0.37 | 0.52 J | 0.17 U | 1.1 NJ | 0.34 NJ | 0.43 J | 2.1 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.16 U | 0.13 U | 0.2 U | 0.088 J | 0.086 U | 0.088 J | 0.21 J | 0.2 U | 0.24 U | 0.089 U | 0.084 U | 0.2 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 35 J | 57 J | 58 J | 48.2 JT | 42 J | 55 J | 290 J | 150 J | 120 J | 61 J | 50 J | 45 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 24 J | 52 J | 36 J | 28 JT | 47 J | 37 J | 260 J | 94 J | 63 J | 28 J | 29 J | 32 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 200 J | 330 J | 340 J | 332 JT | 270 J | 370 J | 930 J | 670 J | 900 J | 360 J | 360 J | 280 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 110 J | 200 J | 160 J | 130 JT | 190 J | 160 J | 630 J | 320 J | 360 J | 120 J | 140 J | 160 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 235 JA | 387 JA | 398 JA | 380 JA | 312 JA | 425 JA | 1220 JA | 820 JA | 1020 JA | 421 JA | 410 JA | 325 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 134 JA | 252 JA | 196 JA | 158 JA | 237 JA | 197 JA | 890 JA | 414 JA | 423 JA | 148 JA | 169 JA | 192 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.34 U | 0.4 U | 0.41 U | 0.43 U | 0.41 U | 0.42 U | 0.47 U | 0.78 J | 0.43 U | 0.46 U | 0.41 U | 0.32 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.28 U | 0.33 U | 0.33 U | 0.35 U | 0.33 U | 0.34 U | 0.38 U | 0.27 U | 0.35 U | 0.38 U | 0.33 U | 0.26 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.88 U | 1.1 U | 1.1 U | 1.2 U | 1.1 U | 1.1 U | 1.3 U | 0.87 U | 1.2 U | 1.3 U | 1.1 U | 0.83 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.18 U | 0.21 U | 0.22 U | 0.23 U | 0.22 U | 0.22 U | 0.33 J | 0.18 U | 0.23 U | 0.25 U | 0.21 U | 0.17 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 1 U | 2 U | 1.1 U | 5 U | 1 U | 5.7 U | 5 U | 5.1 U | 1.1 U | 1 U | 5 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 UJ | 5.5 UJ | 11 U | 5.6 U | 28 UJ | 5.5 U | 31 UJ | 28 UJ | 28 U | 6 U | 5.5 U | 28 UJ |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 17 U | 34 U | 18 U | 85 U | 17 U | 96 U | 85 U | 87 U | 19 U | 17 U | 85 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 2 U | 4 U | 2.1 U | 10 U | 2 U | 12 U | 10 U | 11 U | 2.2 U | 2 U | 10 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 1.5 U | 3 U | 1.6 U | 7.5 U | 1.5 U | 8.5 U | 7.5 U | 7.7 U | 1.7 U | 1.5 U | 7.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 1.5 U | 3 U | 1.6 U | 7.5 U | 1.5 U | 8.5 U | 7.5 U | 7.7 U | 1.7 U | 1.5 U | 7.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 1.4 U | 2.8 U | 1.5 U | 7 U | 1.4 U | 7.9 U | 7 U | 7.2 U | 1.6 U | 1.4 U | 7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 1.4 U | 2.8 U | 1.5 U | 7 U | 1.4 U | 7.9 U | 7 U | 7.2 U | 1.6 U | 1.4 U | 7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 4.1 J | 8.4 J | 9.4 J | 6.9 J | 9.8 J | 8.1 J | 23 J | 38 J | 31 J | 10 J | 13 | 7.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 18 U | 36 U | 19 U | 90 U | 18 U | 110 U | 90 U | 92 U | 20 U | 18 U | 90 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.26 U | 3 NJ | 10 J | 0.33 U | 4.9 J | 0.32 U | 0.36 U | 4.1 NJ | 3.1 NJ | 0.35 U | 0.31 U | 0.25 U |
| Phenol | 108-95-2 | ug/kg | 3.9 J | 6.7 J | 11 J | 5.6 J | 10 U | 7.6 J | 12 U | 10 U | 41 J | 7.3 J | 5.5 J | 10 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 87 J | 160 J | 180 | 150 | 150 U | 260 | 160 U | 420 U | 1100 | 120 | 180 | 160 U |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 5.1 J | 9.9 | 6.4 U | 3.3 U | 16 U | 5.9 J | 24 J | 20 J | 29 J | 9 J | 5 J | 16 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 50 U | 27 U | 30 | 29 | 40 U | 29 | 45 U | 40 U | 41 J | 29 | 26 | 40 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 3 J | 5.9 J | 4.4 J | 3.5 J | 6.5 U | 3.7 J | 7.3 U | 6.5 U | 6.7 U | 4.3 J | 4 J | 6.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 2.9 J | 2 U | 1.1 U | 5 U | 1 U | 5.7 U | 5 U | 5.1 U | 1.1 U | 1 U | 5 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 1.7 U | 3.4 U | 1.8 U | 8.5 U | 1.7 U | 9.6 U | 8.5 U | 8.7 U | 1.9 U | 1.7 U | 8.5 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 2.6 U | 5.2 U | 2.7 U | 13 U | 2.6 U | 15 U | 13 U | 14 U | 2.9 U | 2.6 U | 13 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 2.9 U | 5.8 U | 3 U | 15 U | 2.9 U | 17 U | 15 U | 15 U | 3.2 U | 2.9 U | 15 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 3 U | 6 U | 3.1 U | 15 U | 3 U | 17 U | 15 U | 16 U | 3.3 U | 3 U | 15 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 2.9 U | 5.8 U | 3 U | 15 U | 2.9 U | 17 U | 15 U | 15 U | 3.2 U | 2.9 U | 15 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 1.5 U | 3 U | 1.6 U | 7.5 U | 1.5 U | 8.5 U | 7.5 U | 7.7 U | 1.7 U | 1.5 U | 7.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 2 U | 4 U | 2.1 U | 10 U | 2 U | 12 U | 10 U | 11 U | 2.2 U | 2 U | 10 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 1.6 U | 3.2 U | 1.7 U | 8 U | 1.6 U | 9 U | 8 U | 8.2 U | 1.8 U | 1.6 U | 8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 3.2 U | 6.4 U | 3.3 U | 16 U | 3.2 U | 18 U | 16 U | 17 U | 3.5 U | 3.2 U | 16 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 UJ | 3.7 UJ | 7.4 U | 3.8 U | 19 U | 3.7 U | 21 U | 19 U | 19 U | 4.1 U | 3.7 U | 19 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 2.5 U | 5 U | 2.6 U | 13 U | 2.5 U | 15 U | 13 U | 13 U | 2.8 U | 2.5 U | 13 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 1.6 U | 3.2 U | 1.7 U | 8 U | 1.6 U | 9 U | 8 U | 8.2 U | 1.8 U | 1.6 U | 8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 1.9 U | 3.8 U | 2 U | 9.5 U | 1.9 U | 11 U | 9.5 U | 9.7 U | 2.1 U | 1.9 U | 9.5 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 1.4 U | 2.8 U | 1.5 U | 7 U | 1.4 U | 7.9 U | 7 U | 7.2 U | 1.6 U | 1.4 U | 7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 1.8 U | 3.6 U | 1.9 U | 9 U | 1.8 U | 11 U | 9 U | 9.2 U | 2 U | 1.8 U | 9 U |
| Aniline | 62-53-3 | ug/kg | 1.5 U | 6.6 J | 3 U | 1.6 U | 7.5 U | 1.5 U | 8.5 U | 7.5 U | 7.7 U | 1.7 U | 1.5 U | 7.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 1.1 U | 2.2 U | 1.2 U | 5.5 U | 1.1 U | 6.2 U | 5.5 U | 5.6 U | 1.2 U | 1.1 U | 5.5 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 96 U | 200 U | 98 U | 480 U | 98 J | 550 J | 480 U | 490 U | 120 J | 96 U | 480 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 5 J | 13 | 5.8 J | 5.3 J | 11 U | 6.8 J | 12 U | 11 U | 36 J | 7.1 J | 4.6 J | 11 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 1.5 U | 3 U | 1.6 U | 7.5 U | 1.5 U | 8.5 U | 7.5 U | 7.7 U | 1.7 U | 1.5 U | 7.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 1.9 U | 3.8 U | 2 U | 9.5 U | 1.9 U | 11 U | 9.5 U | 9.7 U | 2.1 U | 1.9 U | 9.5 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 2.6 U | 5.2 U | 2.7 U | 13 U | 2.6 U | 15 U | 13 U | 14 U | 2.9 U | 2.6 U | 13 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G764 | LW3-G765 | LW3-G766 | LW3-G767 | LW3-G768 | LW3-G769 | LW3-G770 | LW3-G771 | LW3-G772 | LW3-G774 | LW3-G775 | LW3-G776 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 27 | 0 - 30 | 0 - 27 | 0 - 28 | 0 - 29 | 0 - 28 | 0 - 30 | 0 - 23 | 0 - 27 | 0 - 30 | 0 - 30 | 0 - 22 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 5.3 J | 2.6 U | 1.4 U | 6.5 U | 1.6 J | 7.3 U | 6.5 U | 12 J | 2 J | 2 J | 6.5 U |
| Dibenzofuran | 132-64-9 | ug/kg | 1.4 J | 2.1 J | 0.81 J | 0.87 J | 1.2 J | 1.4 J | 2.1 J | 3.2 | 3.8 | 1.4 J | 1.3 J | 2.2 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.089 U | 0.084 U | 0.25 U | 0.19 J | 0.2 U | 0.21 U | 0.23 U | 0.17 U | 180 | 1 | 0.2 U | 0.27 J |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.24 U | 0.14 U | 0.15 U | 0.37 J | 0.15 U | 0.23 | 0.14 U | 0.19 J | 0.16 U | 0.14 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 29 U | 58 U | 30 U | 150 U | 29 U | 170 U | 150 U | 150 U | 32 U | 29 U | 150 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.24 U | 0.16 U | 0.17 U | 0.16 U | 0.17 U | 0.39 U | 0.16 U | 0.17 U | 0.18 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 1 U | 2 U | 1.1 U | 5 U | 1 U | 5.7 U | 5 U | 5.1 U | 1.1 U | 1 U | 5 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 2.2 U | 4.4 U | 2.3 U | 11 U | 2.2 U | 13 U | 11 U | 12 U | 2.4 U | 2.2 U | 11 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 6.1 U | 13 U | 6.3 U | 31 U | 6.1 U | 35 U | 31 U | 32 U | 6.7 U | 6.1 U | 31 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 1.6 U | 9.9 J | 1.7 U | 8 U | 1.6 U | 9 U | 8 U | 9 J | 1.8 U | 1.6 U | 8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 2.4 U | 4.8 U | 2.5 U | 12 U | 2.4 U | 14 U | 12 U | 13 U | 2.7 U | 2.4 U | 12 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G777 | LW3-G778 | LW3-G779 | LW3-G780 | LW3-G781 | LW3-G783 | LW3-G784 | LW3-G785 | LW3-G786 | LW3-G787 | LW3-G788 | LW3-G788-R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 21 | 0 - 22 | 0 - 23 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 30 | 0 - 27 | 0 - 26 | 0 - 23 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 13 U | 12 U | 1.3 U | 6.4 U | 1.3 U | 15 U | 2 U | 1.3 U | 1.4 U | 1.3 U | |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 13 U | 3 U | 1.3 U | 6.5 U | 1.3 U | 1.5 U | 1.3 U | 5.9 U | 1.4 U | 1.3 U | |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 13 U | 15 U | 1.3 U | 8.7 U | 1.3 U | 17 U | 5.2 U | 1.3 U | 1.4 U | 1.3 U | |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.3 U | 13 U | 14 U | 6.4 NJ | 3.4 U | 27 | 7.5 U | 1.9 U | 1.3 U | 1.4 U | 1.3 U | |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 13 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.4 U | 1.4 U | 1.4 U | 1.3 U | |
| Aroclor 1254 | 11097-69-1 | ug/kg | 3.4 | 13 U | 87 | 16 J | 5.7 J | 53 | 19 J | 1.7 U | 1.4 U | 1.4 U | 1.3 U | |
| Aroclor 1260 | 11096-82-5 | ug/kg | 8.7 | 1300 | 100 NJ | 12 | 9 | 80 | 12 | 1.8 U | 1.3 U | 1.7 U | 1.3 U | |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 13 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.4 U | 2 U | 1.4 U | 1.3 U | |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 13 U | 1.3 U | 8.2 | 1.3 U | 15 U | 1.5 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | |
| Aroclors | 12767-79-2 | ug/kg | 12.1 T | 1300 T | 187 JT | 42.6 JT | 14.7 JT | 160 T | 31 JT | 5.2 UT | 5.9 UT | 1.7 UT | 1.3 UT | |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 0.07 U | 0.26 J | 17.3 | 54.2 | 54.6 | | | 95.8 | 64.7 | 42.8 J | 4.33 J | |
| Specific Gravity | SPEC_GRAV | NA | 2.06 | 1.87 | 1.87 | 1.58 | 1.61 | 1.57 T | 1.39 | 0.89 | 0.92 | 1.43 | 2.07 | |
| Sulfide | 18496-25-8 | mg/kg | 0.5 U | 0.5 U | 4.3 | 1.3 | 1.4 | | | 0.5 U | 0.5 U | 0.4 U | 0.4 U | |
| Total organic carbon | TOC | percent | 0.17 | 0.4 | 0.43 | 1.07 | 0.76 | 0.76 T | 1.83 | 1.18 | 1.34 | 1.37 | 0.12 | |
| Total solids | TSO | percent | 84.1 | 74.8 | 79.1 | 59.6 | 62.6 | 74.2 T | 43.1 | 53.8 | 55.8 | 48 | 80.3 | |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | 0.319 J | | | | | 0.109 J |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | 0.0167 U | | | | | 0.0719 J |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | 3.38 J | | | | | 0.878 J |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | 26 | | | | | 4.57 |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | 121 | | | | | 22.5 |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | 0.652 J | | | | | 0.0886 J |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | 1.29 J | | | | | 0.3 J |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | 3.25 J | | | | | 0.658 J |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | 6.88 | | | | | 1.03 J |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | 8.5 | | | | | 1.22 J |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | 171 JT | | | | | 31.4 JT |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | 0.0138 U | | | | | 0.0036 U |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | 0.0167 U | | | | | 0.0164 U |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | 0.112 J | | | | | 0.0192 U |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | 0.496 J | | | | | 0.131 J |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | 0.267 J | | | | | 0.0984 J |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | 12.4 | | | | | 2.19 J |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | 0.0721 U | | | | | 0.0547 U |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | 0.194 J | | | | | 0.00417 U |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | 0.106 J | | | | | 0.0052 U |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | 0.563 J | | | | | 0.0483 J |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | 0.157 J | | | | | 0.0306 J |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | 0.023 U | | | | | 0.0102 U |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | 0.118 U | | | | | 0.0326 J |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | 1.99 J | | | | | 0.363 J |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | 0.182 J | | | | | 0.0153 U |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | 0.382 JT | | | | | 0.0667 JT |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.194 JA | 2.27 A | 0.254 JA | | | | 0.382 JA | | | | 0.000674 JA | 0.0667 JA |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 43.3 | 11 | 30.4 | 0.11 | 0.05 | 14.8 T | 0 | 0.49 | 1.04 | 0.01 | 0 | |
| Fine gravel | GS_FG | percent | 13.7 | 7.79 | 6.07 | 0.41 | 0.37 | 19.7 T | 0.17 | 0.52 | 0.74 | 0.08 | 0.11 | |
| Very coarse sand | GS_VCS | percent | 6.13 | 6.46 | 6.47 | 0.58 | 0.37 | 8.61 T | 0.39 | 0.41 | 0.66 | 0.09 | 0.08 | |
| Coarse sand | GS_CS | percent | 14.2 | 13.9 | 13.2 | 0.96 | 1 | 12.7 T | 0.83 | 2.62 | 1.08 | 0.38 | 6.13 | |
| Medium sand | GS_MS | percent | 16.8 | 27.4 | 28.2 | 9.16 | 17.4 | 21.4 T | 6.68 | 39.3 | 2.8 | 1.11 | 54.3 | |
| Fine sand | GS_FS | percent | 5.92 | 20.8 | 11.5 | 52.6 | 48.9 | 7.93 T | 5.99 | 14.9 | 13.4 | 15.6 | 30.8 | |
| Very fine sand | GS_VFS | percent | 1.09 | 6.6 | 1.81 | 17.6 | 10 | 2.11 T | 14 | 9.12 | 30.1 | 21.3 | 4.89 | |
| Fines | GS_FINES | percent | 1.68 T | 6.01 T | 4.77 T | 19.7 T | 18.8 T | 16 T | 73.9 T | 35 T | 50.6 T | 55.6 T | 1.87 T | |
| Coarse silt | GS_CSILT | percent | 0.38 | 1.39 | 0.97 | 6.99 | 8.64 | 2.2 T | 30.6 | 17 | 26.9 | 20.2 | 0.81 | |
| Medium silt | GS_MSILT | percent | 0.29 | 1.33 | 1.34 | 4.17 | 3.47 | 3.87 T | 16.8 | 6.83 | 10.3 | 12.4 | 0.34 | |
| Fine silt | GS_FSILT | percent | 0.24 | 0.87 | 0.69 | 2.46 | 2.18 | 3.12 T | 10.3 | 4.13 | 4.94 | 8.64 | 0.13 | |
| Very fine silt | GS_VFSILT | percent | 0.23 | 0.83 | 0.71 | 2.19 | 2.03 | 2.8 T | 3.53 | 2.87 | 4.65 | 5.03 | 0.19 | |
| 8-9 Phi clay | GS_CCLAY | percent | 0.16 | 0.66 | 0.49 | 2.02 | 1.18 | 1.66 T | 6.47 | 1.69 | 0.39 | 3.82 | 0.16 | |
| >9 Phi clay | GS_MFCLAY | percent | 0.38 | 0.93 | 0.57 | 1.85 | 1.33 | 2.34 T | 6.17 | 2.46 | 3.37 | 5.51 | 0.24 | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G777 | LW3-G778 | LW3-G779 | LW3-G780 | LW3-G781 | LW3-G783 | LW3-G784 | LW3-G785 | LW3-G786 | LW3-G787 | LW3-G788 | LW3-G788-R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 21 | 0 - 22 | 0 - 23 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 30 | 0 - 27 | 0 - 26 | 0 - 23 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 5690 | 8100 | 9460 | 16800 | 14200 | 11500 T | 32300 | 20700 | 23500 | 32300 | 10800 T | |
| Antimony | 7440-36-0 | mg/kg | 0.28 J | 0.92 J | 0.37 J | 0.58 J | 0.71 J | 0.33 JT | 0.38 J | 0.08 J | 0.09 J | 0.11 J | 0.095 JT | |
| Arsenic | 7440-38-2 | mg/kg | 1.02 | 1.93 | 1.11 | 2.29 | 1.89 | 3.22 T | 4.49 | 2.53 | 2.51 | 3.15 | 1.97 T | |
| Cadmium | 7440-43-9 | mg/kg | 0.075 | 0.163 | 0.093 | 0.225 | 0.156 | 0.436 T | 0.281 | 0.09 J | 0.131 J | 0.125 | 0.0505 T | |
| Chromium | 7440-47-3 | mg/kg | 10.9 | 27.3 | 10 | 20.1 | 17.1 | 16.6 T | 32.2 | 20.4 | 24.5 | 23.6 | 12.5 T | |
| Copper | 7440-50-8 | mg/kg | 11.6 | 19.5 | 14.1 | 25.4 | 20.8 | 33.1 T | 40.4 | 22.5 | 27.5 | 30.9 J | 12.8 JT | |
| Lead | 7439-92-1 | mg/kg | 7.39 | 28.5 | 4.12 | 22.1 | 14 | 65.1 T | 14 | 7 | 6.9 | 8.42 J | 3.96 JT | |
| Mercury | 7439-97-6 | mg/kg | 0.019 | 0.055 | 0.019 | 0.316 | 0.046 | 0.316 JT | 0.105 | 0.034 | 0.061 | 0.034 | 0.009 J | |
| Nickel | 7440-02-0 | mg/kg | 11.9 J | 16.2 J | 14.7 J | 20.2 J | 18.2 J | 15.2 T | 24.3 | 18.7 | 21.4 | 22.4 J | 17.9 JT | |
| Silver | 7440-22-4 | mg/kg | 0.11 | 0.17 | 0.12 | 0.46 | 0.22 | 1.7 T | 0.21 | 0.1 | 0.11 | 0.138 | 0.0345 T | |
| Zinc | 7440-66-6 | mg/kg | 44 | 78.9 | 47.4 | 103 | 79.8 | 185 T | 112 | 76.6 | 80.3 | 98.2 | 57.8 T | |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 0.31 U | 0.94 J | 0.57 J | 4 | 2.2 | 18 | 3.3 | 0.55 J | 0.58 J | 0.94 J | 0.31 U | |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 0.39 U | 1.2 J | 1.1 J | 6.5 | 3.6 | 22 | 6.4 | 0.88 J | 0.91 J | 1.4 J | 0.44 J | |
| Acenaphthene | 83-32-9 | ug/kg | 0.33 J | 1.3 J | 0.54 J | 30 | 2.1 | 48 | 5.4 | 0.32 J | 0.33 J | 0.52 J | 0.23 U | |
| Acenaphthylene | 208-96-8 | ug/kg | 1 J | 6.5 | 0.38 J | 3.9 | 4 | 310 J | 5 | 1.1 J | 1.8 J | 1.8 J | 0.24 U | |
| Anthracene | 120-12-7 | ug/kg | 1.2 J | 21 | 1.1 J | 7.1 | 4.9 | 420 J | 14 | 0.95 J | 1.2 J | 1.5 J | 0.47 U | |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 5.3 | 67 | 1.8 U | 23 | 20 | 1700 | 38 | 2.7 | 9 | 4.4 | 0.61 J | |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 6.3 | 55 | 1.8 U | 32 | 34 | 2800 | 54 | 3.3 | 9.5 | 5.4 | 0.53 J | |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 6.6 | 76 | 2.3 U | 33 | 40 | 2400 | 62 | 4.5 | 12 | 7.1 | 0.45 J | |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 4.2 | 39 | 1.5 U | 21 | 30 | 1700 J | 43 | 3.4 | 7.6 | 4.7 | 0.37 J | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 5.2 | 36 | 2 | 30 | 42 | 2500 | 51 | 3.8 | 7 | 5.2 | 0.64 U | |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 2.2 | 24 | 0.85 U | 9.8 | 11 | 670 J | 23 | 1.5 J | 3.6 | 2.1 J | 0.19 J | |
| Chrysene | 218-01-9 | ug/kg | 6.3 | 66 | 2.5 U | 25 | 33 | 2100 | 57 | 4.4 | 11 | 6.7 | 0.42 J | |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 0.98 U | 8.9 | 0.49 U | 3.2 | 3.5 | 210 J | 6.8 | 0.55 J | 1.4 J | 1.1 J | 0.28 U | |
| Dibenzothiophene | 132-65-0 | ug/kg | 0.29 J | 2.7 | 0.59 J | 4.6 | 2 J | 310 J | 2.9 | 0.21 U | 0.3 J | 0.41 J | 0.21 U | |
| Fluoranthene | 206-44-0 | ug/kg | 8.6 | 130 | 5.3 | 58 | 59 | 6400 J | 84 | 8.9 | 14 | 11 | 1 J | |
| Fluorene | 86-73-7 | ug/kg | 0.5 U | 4.6 | 0.73 J | 11 | 2.8 | 160 J | 5.4 | 0.64 J | 0.85 J | 1.3 J | 0.5 U | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 5.8 | 42 | 1.5 U | 27 | 37 | 2300 | 44 | 2.7 | 6.2 | 3.6 | 0.25 J | |
| Naphthalene | 91-20-3 | ug/kg | 0.81 J | 2.4 | 1.6 J | 9.6 | 9.7 | 55 | 17 | 4.2 | 3.1 | 7 | 1.6 U | |
| Perylene | 198-55-0 | ug/kg | 2.3 | 17 | 3.1 | 15 | 15 | 740 J | 28 | 5.6 | 21 | 59 | 0.49 J | |
| Phenanthrene | 85-01-8 | ug/kg | 3.3 | 59 | 5.2 | 55 | 25 | 3900 | 37 | 4 | 5.3 | 6.3 | 0.75 U | |
| Pyrene | 129-00-0 | ug/kg | 10 | 99 | 6.1 | 58 | 70 | 7900 J | 97 | 8.9 | 17 | 11 | 0.82 J | |
| High Molecular Weight PAH | HPAH | ug/kg | 56 T | 600 T | 13 T | 300 T | 350 T | 29000 JT | 520 T | 41 JT | 91 JT | 58 JT | 4.3 JT | |
| Low Molecular Weight PAH | LPAH | ug/kg | 6.6 JT | 96 JT | 11 JT | 120 T | 52 T | 4900 JT | 90 T | 12 JT | 13 JT | 20 JT | 0.44 JT | |
| Total PAHs | 130498-29-2 | ug/kg | 63 JT | 700 JT | 24 JT | 420 T | 400 T | 34000 JT | 610 T | 53 JT | 100 JT | 77 JT | 4.7 JT | |
| C1-Chrysene | C1_218-01-9 | ug/kg | 4.4 | 40 | 2.1 | 23 | 16 | 710 | 36 | 7 | 25 | 17 | 0.57 J | |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 0.21 U | 0.21 U | 2.1 | 11 | 2.3 | 110 | 3.2 | 0.98 J | 0.61 J | 2.3 J | 0.21 U | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 6.7 | 120 | 3.8 | 35 | 22 | 1300 | 44 | 6.3 | 15 | 9.2 | 1.2 J | |
| C1-Fluorene | C1_86-73-7 | ug/kg | 0.7 J | 5.4 | 1.3 J | 7.5 | 2.4 | 130 | 4.4 | 1.1 J | 1.1 J | 1.9 J | 0.5 U | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 4.3 | 37 | 5 | 35 | 15 | 1100 | 17 | 4 | 6.1 | 6.3 | 0.75 U | |
| C2-Chrysene | C2_218-01-9 | ug/kg | 3.2 | 21 | 2.7 | 19 | 13 | 420 | 24 | 6.9 | 9.5 | 14 | 0.25 U | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 0.21 U | 4 | 2.8 | 13 | 5.1 | 310 | 6.2 | 2 J | 2.6 | 3.8 | 0.21 U | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 3.9 | 43 | 3 | 23 | 13 | 440 | 27 | 6.4 | 14 | 15 | 1.7 J | |
| C2-Fluorene | C2_86-73-7 | ug/kg | 0.9 J | 5.8 | 2.5 | 15 | 5.2 | 220 | 6.9 | 2.8 | 2.1 J | 0.5 U | 0.55 J | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 0.54 J | 3.2 | 2.1 | 21 | 6.5 | 190 | 6.9 | 1.6 J | 1.6 J | 2.4 J | 0.49 J | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 2.6 | 26 | 4.4 | 32 | 11 | 540 | 30 | 7.9 | 11 | 12 | 0.75 U | |
| C3-Chrysene | C3_218-01-9 | ug/kg | 0.25 U | 20 | 0.25 U | 20 | 10 | 230 | 20 | 9.1 | 7.7 | 5.5 | 0.25 U | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 0.21 U | 3.7 | 2.7 | 0.21 U | 5 | 240 | 15 | 2.3 J | 2.6 | 2.5 J | 0.21 U | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 0.61 U | 19 | 2.1 | 15 | 7.4 | 280 | 18 | 5 | 5.3 | 9.3 | 0.61 U | |
| C3-Fluorene | C3_86-73-7 | ug/kg | 0.5 U | 3.8 | 4.5 | 16 | 6.3 | 260 | 10 | 3.5 | 3.3 | 7.3 | 0.5 U | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 0.52 J | 3.5 | 2.5 | 20 | 6.1 | 350 | 4.9 | 1.3 J | 1.4 J | 2.2 J | 0.37 U | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 2.8 | 130 | 8.1 | 29 | 12 | 450 | 31 | 12 | 5.3 | 15 | 1.6 J | |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 14 | 0.25 U | 11 | 7.9 | 130 | 9.4 | 0.25 U | 0.25 U | 8.8 | 0.25 U | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 0.37 U | 4.4 | 3.4 | 18 | 6.1 | 270 | 5.8 | 1.6 J | 2 J | 2.7 | 0.37 U | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 0.75 U | 9 | 2.3 | 20 | 6.6 | 260 | 9.5 | 3.6 | 0.75 U | 3.9 | 0.75 U | |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 6.15 | 34.3 | 10.2 | | | | | | | | 4.97 U | |
| PCB002 | 2051-61-8 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB003 | 2051-62-9 | pg/g | 5.29 | 6 | 6.36 | | | | | | | | 4.97 U | |
| PCB004 & 010 | PCB004_010 | pg/g | 55.9 | 677 | 67.2 | | | | | | | | 9.94 U | |
| PCB005 & 008 | PCB005_008 | pg/g | 14 | 56.3 | 33 | | | | | | | | 9.94 U | |
| PCB006 | 25569-80-6 | pg/g | 9.73 U | 18.2 | 16.9 | | | | | | | | 9.94 U | |
| PCB007 & 009 | PCB007_009 | pg/g | 9.73 U | 9.7 | 9.66 U | | | | | | | | 9.94 U | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G777 | LW3-G778 | LW3-G779 | LW3-G780 | LW3-G781 | LW3-G783 | LW3-G784 | LW3-G785 | LW3-G786 | LW3-G787 | LW3-G788 | LW3-G788-R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 21 | 0 - 22 | 0 - 23 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 30 | 0 - 27 | 0 - 26 | 0 - 23 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 14.3 | 28.8 | 13.5 | | | | | | | | 13.9 | |
| PCB012 & 013 | PCB012_013 | pg/g | 9.73 U | 9.28 U | 9.66 U | | | | | | | | 9.94 U | |
| PCB014 | 34883-41-5 | pg/g | 9.73 U | 9.28 U | 9.66 U | | | | | | | | 9.94 U | |
| PCB015 | 2050-68-2 | pg/g | 12.3 | 86.3 | 13.8 | | | | | | | | 9.94 U | |
| PCB016 & 032 | PCB016_032 | pg/g | 81 | 512 | 689 | | | | | | | | 4.97 U | |
| PCB017 | 37680-66-3 | pg/g | 68 | 1020 | 293 | | | | | | | | 4.97 U | |
| PCB018 | 37680-65-2 | pg/g | 30.7 | 345 | 367 | | | | | | | | 4.97 U | |
| PCB019 | 38444-73-4 | pg/g | 271 | 3680 | 201 | | | | | | | | 4.97 U | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 37.7 | 238 | 482 | | | | | | | | 4.97 U | |
| PCB022 | 38444-85-8 | pg/g | 20.3 | 117 | 88.9 | | | | | | | | 4.97 U | |
| PCB023 | 55720-44-0 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB024 & 027 | PCB024_027 | pg/g | 41.5 | 459 | 195 | | | | | | | | 4.97 U | |
| PCB025 | 55712-37-3 | pg/g | 22.4 | 78.6 | 183 | | | | | | | | 4.97 U | |
| PCB026 | 38444-81-4 | pg/g | 45 | 146 | 641 | | | | | | | | 4.97 U | |
| PCB028 | 7012-37-5 | pg/g | 46.5 | 295 | 118 | | | | | | | | 6.29 | |
| PCB029 | 15862-07-4 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB030 | 35693-92-6 | pg/g | 4.86 U | 8.69 | 4.83 U | | | | | | | | 4.97 U | |
| PCB031 | 16606-02-3 | pg/g | 35.3 | 267 | 221 | | | | | | | | 4.97 U | |
| PCB034 | 37680-68-5 | pg/g | 4.86 U | 12.7 | 4.83 U | | | | | | | | 4.97 U | |
| PCB035 | 37680-69-6 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB036 | 38444-87-0 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB037 | 38444-90-5 | pg/g | 8.24 | 67.1 | 9.82 | | | | | | | | 4.97 U | |
| PCB038 | 53555-66-1 | pg/g | 21.6 | 108 | 78.3 | | | | | | | | 4.97 U | |
| PCB039 | 38444-88-1 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB040 | 38444-93-8 | pg/g | 7.35 | 128 | 17.2 | | | | | | | | 4.97 U | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 254 | 2150 | 2080 | | | | | | | | 6.52 | |
| PCB042 & 059 | PCB042_059 | pg/g | 55.5 | 384 | 366 | | | | | | | | 4.97 U | |
| PCB043 & 049 | PCB043_049 | pg/g | 1100 | 6570 | 14600 | | | | | | | | 5.2 | |
| PCB044 | 41464-39-5 | pg/g | 116 | 1300 | 579 | | | | | | | | 6.44 | |
| PCB045 | 70362-45-7 | pg/g | 8.17 | 145 | 14.5 | | | | | | | | 4.97 U | |
| PCB046 | 41464-47-5 | pg/g | 37.6 | 199 | 594 | | | | | | | | 4.97 U | |
| PCB047 | 2437-79-8 | pg/g | 888 | 4690 | 3060 | | | | | | | | 4.97 U | |
| PCB048 & 075 | PCB048_075 | pg/g | 22.6 | 254 | 108 | | | | | | | | 4.97 U | |
| PCB050 | 62796-65-0 | pg/g | 19.7 | 227 | 29.3 | | | | | | | | 4.97 U | |
| PCB051 | 68194-04-7 | pg/g | 363 | 1780 | 2060 | | | | | | | | 4.97 U | |
| PCB052 & 069 | PCB052_069 | pg/g | 1420 | 9570 | 22200 | | | | | | | | 8.42 | |
| PCB053 | 41464-41-9 | pg/g | 732 | 4820 | 11600 | | | | | | | | 4.97 U | |
| PCB054 | 15968-05-5 | pg/g | 117 | 1030 | 373 | | | | | | | | 4.97 U | |
| PCB055 | 74338-24-2 | pg/g | 39.2 | 124 | 108 | | | | | | | | 4.97 U | |
| PCB056 & 060 | PCB056_060 | pg/g | 17.3 | 365 | 24.3 | | | | | | | | 4.97 U | |
| PCB057 | 70424-67-8 | pg/g | 16.3 | 54 | 101 | | | | | | | | 4.97 U | |
| PCB058 | 41464-49-7 | pg/g | 4.86 U | 4.64 U | 25.5 | | | | | | | | 4.97 U | |
| PCB061 & 070 | PCB061_070 | pg/g | 97.7 | 1120 | 600 | | | | | | | | 8.12 | |
| PCB062 | 54230-22-7 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB063 | 74472-34-7 | pg/g | 2.38 J | 29 | 6.41 | | | | | | | | 4.97 U | |
| PCB065 | 33284-54-7 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB066 & 076 | PCB066_076 | pg/g | 84.1 | 766 | 214 | | | | | | | | 6.49 | |
| PCB067 | 73575-53-8 | pg/g | 7.39 | 20.8 | 18.9 | | | | | | | | 4.97 U | |
| PCB068 | 73575-52-7 | pg/g | 18.1 | 141 | 84.5 | | | | | | | | 4.97 U | |
| PCB073 | 74338-23-1 | pg/g | 23.8 | 365 | 4.83 U | | | | | | | | 4.97 U | |
| PCB074 | 32690-93-0 | pg/g | 17 | 284 | 44.6 | | | | | | | | 4.97 U | |
| PCB077 | 32598-13-3 | pg/g | 3.74 U | 52.7 | 9.4 UJ | | | | | | | | 1.79 U | |
| PCB078 | 70362-49-1 | pg/g | 4.86 U | 4.64 U | 7.28 | | | | | | | | 4.97 U | |
| PCB079 | 41464-48-6 | pg/g | 16.4 | 89.7 | 91.1 | | | | | | | | 4.97 U | |
| PCB080 | 33284-52-5 | pg/g | 4.86 U | 4.64 U | 5.38 | | | | | | | | 4.97 U | |
| PCB081 | 70362-50-4 | pg/g | 1.36 U | 10.6 | 0.585 J | | | | | | | | 0.371 U | |
| PCB082 | 52663-62-4 | pg/g | 16.7 | 186 | 11 | | | | | | | | 4.97 U | |
| PCB083 | 60145-20-2 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB084 & 092 | PCB084_092 | pg/g | 552 | 3570 | 3210 | | | | | | | | 6.24 | |
| PCB085 & 116 | PCB085_116 | pg/g | 24.5 | 365 | 22.9 | | | | | | | | 4.97 U | |
| PCB086 | 55312-69-1 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 159 | 1160 | 147 | | | | | | | | 5.6 | |
| PCB088 & 091 | PCB088_091 | pg/g | 1270 | 3800 | 3410 | | | | | | | | 4.97 U | |
| PCB089 | 73575-57-2 | pg/g | 4.95 | 32.8 | 8.68 | | | | | | | | 4.97 U | |
| PCB090 & 101 | PCB090_101 | pg/g | 1450 | 10300 | 7180 | | | | | | | | 16.9 | |
| PCB093 | 73575-56-1 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G777 | LW3-G778 | LW3-G779 | LW3-G780 | LW3-G781 | LW3-G783 | LW3-G784 | LW3-G785 | LW3-G786 | LW3-G787 | LW3-G788 | LW3-G788-R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 21 | 0 - 22 | 0 - 23 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 30 | 0 - 27 | 0 - 26 | 0 - 23 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 40.4 | 625 | 615 | | | | | | | | 4.97 U | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 2520 | 13500 | 15200 | | | | | | | | 12.3 | |
| PCB096 | 73575-54-9 | pg/g | 126 | 824 | 553 | | | | | | | | 4.97 U | |
| PCB097 | 41464-51-1 | pg/g | 70.6 | 709 | 105 | | | | | | | | 4.97 U | |
| PCB099 | 38380-01-7 | pg/g | 647 | 3890 | 3820 | | | | | | | | 7.15 | |
| PCB100 | 39485-83-1 | pg/g | 771 | 987 | 898 | | | | | | | | 4.97 U | |
| PCB103 | 60145-21-3 | pg/g | 384 | 1280 | 2390 | | | | | | | | 4.97 U | |
| PCB104 | 56558-16-8 | pg/g | 34.6 | 98.9 | 164 | | | | | | | | 4.97 U | |
| PCB105 | 32598-14-4 | pg/g | 61.1 | 703 | 99.1 | | | | | | | | 5.73 | |
| PCB106 & 118 | PCB106_118 | pg/g | 293 | 2790 | 861 | | | | | | | | 12.9 | |
| PCB107 & 109 | PCB107_109 | pg/g | 95.8 | 416 | 303 | | | | | | | | 4.97 U | |
| PCB108 & 112 | PCB108_112 | pg/g | 24.8 | 220 | 99.7 | | | | | | | | 4.97 U | |
| PCB110 | 38380-03-9 | pg/g | 1000 | 7940 | 4990 | | | | | | | | 19.9 | |
| PCB111 & 115 | PCB111_115 | pg/g | 10.9 | 99.5 | 91 | | | | | | | | 4.97 U | |
| PCB113 | 68194-10-5 | pg/g | 55 | 198 | 321 | | | | | | | | 4.97 U | |
| PCB114 | 74472-37-0 | pg/g | 1.72 J | 26.4 | 3.42 J | | | | | | | | 0.739 U | |
| PCB119 | 56558-17-9 | pg/g | 283 | 1410 | 1630 | | | | | | | | 4.97 U | |
| PCB120 | 68194-12-7 | pg/g | 11.4 | 114 | 156 | | | | | | | | 4.97 U | |
| PCB121 | 56558-18-0 | pg/g | 30.4 | 75.9 | 93.9 | | | | | | | | 4.97 U | |
| PCB122 | 76842-07-4 | pg/g | 4.86 U | 20.2 | 4.83 U | | | | | | | | 4.97 U | |
| PCB123 | 65510-44-3 | pg/g | 2.94 J | 27.2 | 4.12 U | | | | | | | | 0.913 U | |
| PCB124 | 70424-70-3 | pg/g | 5.06 | 49 | 186 | | | | | | | | 4.97 U | |
| PCB126 | 57465-28-8 | pg/g | 1.77 J | 20.7 | 2.18 J | | | | | | | | 0.766 U | |
| PCB127 | 39635-33-1 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB128 & 162 | PCB128_162 | pg/g | 75.8 | 776 | 101 | | | | | | | | 4.97 U | |
| PCB129 | 55215-18-4 | pg/g | 18.9 | 332 | 24.5 | | | | | | | | 4.97 U | |
| PCB130 | 52663-66-8 | pg/g | 81.6 | 1460 | 259 | | | | | | | | 4.97 U | |
| PCB131 | 61798-70-7 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB132 & 161 | PCB132_161 | pg/g | 492 | 5100 | 1710 | | | | | | | | 6.24 | |
| PCB133 & 142 | PCB133_142 | pg/g | 190 | 2270 | 1470 | | | | | | | | 4.97 U | |
| PCB134 & 143 | PCB134_143 | pg/g | 92.5 | 933 | 420 | | | | | | | | 4.97 U | |
| PCB135 | 52744-13-5 | pg/g | 563 | 7990 | 4120 | | | | | | | | 4.97 U | |
| PCB136 | 38411-22-2 | pg/g | 1130 | 6780 | 4270 | | | | | | | | 4.97 U | |
| PCB137 | 35694-06-5 | pg/g | 33.7 | 304 | 26.6 | | | | | | | | 4.97 U | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 1890 | 22600 | 5030 | | | | | | | | 24.7 | |
| PCB139 & 149 | PCB139_149 | pg/g | 3020 | 36000 | 11700 | | | | | | | | 20.9 | |
| PCB140 | 59291-64-4 | pg/g | 107 | 1270 | 604 | | | | | | | | 4.97 U | |
| PCB141 | 52712-04-6 | pg/g | 235 | 3010 | 397 | | | | | | | | 4.97 U | |
| PCB144 | 68194-14-9 | pg/g | 84 | 690 | 91.7 | | | | | | | | 4.97 U | |
| PCB145 | 74472-40-5 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB146 & 165 | PCB146_165 | pg/g | 716 | 13400 | 6130 | | | | | | | | 4.97 U | |
| PCB147 | 68194-13-8 | pg/g | 1990 | 2290 | 881 | | | | | | | | 4.97 U | |
| PCB148 | 74472-41-6 | pg/g | 114 | 617 | 541 | | | | | | | | 4.97 U | |
| PCB150 | 68194-08-1 | pg/g | 308 | 1190 | 691 | | | | | | | | 4.97 U | |
| PCB151 | 52663-63-5 | pg/g | 862 | 8320 | 3380 | | | | | | | | 6.06 | |
| PCB152 | 68194-09-2 | pg/g | 36 | 92.5 | 13.6 | | | | | | | | 4.97 U | |
| PCB153 | 35065-27-1 | pg/g | 2510 | 40800 | 11200 | | | | | | | | 23.4 | |
| PCB154 | 60145-22-4 | pg/g | 602 | 3880 | 2300 | | | | | | | | 4.97 U | |
| PCB155 | 33979-03-2 | pg/g | 24 | 47.9 | 41.6 | | | | | | | | 4.97 U | |
| PCB156 | 38380-08-4 | pg/g | 70 | 1180 | 120 | | | | | | | | 2.18 J | |
| PCB157 | 69782-90-7 | pg/g | 13.1 | 122 | 7.81 UJ | | | | | | | | 0.798 J | |
| PCB158 & 160 | PCB158_160 | pg/g | 102 | 1020 | 155 | | | | | | | | 4.97 U | |
| PCB159 | 39635-35-3 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB166 | 41411-63-6 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB167 | 52663-72-6 | pg/g | 35.3 | 464 | 48.5 | | | | | | | | 0.867 J | |
| PCB168 | 59291-65-5 | pg/g | 50.4 | 267 | 79.6 | | | | | | | | 4.97 U | |
| PCB169 | 32774-16-6 | pg/g | 2.67 U | 3.26 U | 0.942 U | | | | | | | | 0.596 U | |
| PCB170 | 35065-30-6 | pg/g | 1320 | 19900 | 1290 | | | | | | | | 7.06 | |
| PCB171 | 52663-71-5 | pg/g | 337 | 3770 | 386 | | | | | | | | 4.97 U | |
| PCB172 | 52663-74-8 | pg/g | 217 | 3070 | 277 | | | | | | | | 4.97 U | |
| PCB173 | 68194-16-1 | pg/g | 19.7 | 295 | 28.1 | | | | | | | | 4.97 U | |
| PCB174 | 38411-25-5 | pg/g | 1060 | 18500 | 1910 | | | | | | | | 8.24 | |
| PCB175 | 40186-70-7 | pg/g | 52.2 | 892 | 79 | | | | | | | | 4.97 U | |
| PCB176 | 52663-65-7 | pg/g | 208 | 2160 | 321 | | | | | | | | 4.97 U | |
| PCB177 | 52663-70-4 | pg/g | 1140 | 17500 | 3180 | | | | | | | | 4.97 U | |
| PCB178 | 52663-67-9 | pg/g | 652 | 7540 | 1970 | | | | | | | | 4.97 U | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G777 | LW3-G778 | LW3-G779 | LW3-G780 | LW3-G781 | LW3-G783 | LW3-G784 | LW3-G785 | LW3-G786 | LW3-G787 | LW3-G788 | LW3-G788-R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 21 | 0 - 22 | 0 - 23 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 30 | 0 - 27 | 0 - 26 | 0 - 23 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 847 | 13900 | 2570 | | | | | | | | 4.97 U | |
| PCB180 | 35065-29-3 | pg/g | 3310 | 53800 | 3650 | | | | | | | | 16.7 | |
| PCB181 | 74472-47-2 | pg/g | 12.1 | 65.1 | 13.9 | | | | | | | | 4.97 U | |
| PCB182 & 187 | PCB182_187 | pg/g | 3630 | 49800 | 7200 | | | | | | | | 12.4 | |
| PCB183 | 52663-69-1 | pg/g | 832 | 11400 | 882 | | | | | | | | 4.97 U | |
| PCB184 | 74472-48-3 | pg/g | 7.26 | 42.2 | 13.8 | | | | | | | | 4.97 U | |
| PCB185 | 52712-05-7 | pg/g | 94.6 | 1410 | 157 | | | | | | | | 4.97 U | |
| PCB186 | 74472-49-4 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB188 | 74487-85-7 | pg/g | 97.9 | 429 | 134 | | | | | | | | 4.97 U | |
| PCB189 | 39635-31-9 | pg/g | 77.2 | 1030 | 60.2 | | | | | | | | 0.425 U | |
| PCB190 | 41411-64-7 | pg/g | 418 | 4430 | 287 | | | | | | | | 4.97 U | |
| PCB191 | 74472-50-7 | pg/g | 69.7 | 773 | 64.8 | | | | | | | | 4.97 U | |
| PCB192 | 74472-51-8 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB193 | 69782-91-8 | pg/g | 376 | 3700 | 524 | | | | | | | | 4.97 U | |
| PCB194 | 35694-08-7 | pg/g | 2330 | 21100 | 1280 | | | | | | | | 4.97 U | |
| PCB195 | 52663-78-2 | pg/g | 953 | 7850 | 510 | | | | | | | | 4.97 U | |
| PCB196 & 203 | PCB196_203 | pg/g | 2930 | 28500 | 1510 | | | | | | | | 6.37 | |
| PCB197 | 33091-17-7 | pg/g | 101 | 764 | 74.6 | | | | | | | | 4.97 U | |
| PCB198 | 68194-17-2 | pg/g | 139 | 1210 | 62.2 | | | | | | | | 4.97 U | |
| PCB199 | 52663-75-9 | pg/g | 2630 | 24900 | 1670 | | | | | | | | 6.18 | |
| PCB200 | 52663-73-7 | pg/g | 284 | 2570 | 170 | | | | | | | | 4.97 U | |
| PCB201 | 40186-71-8 | pg/g | 281 | 2250 | 228 | | | | | | | | 4.97 U | |
| PCB202 | 2136-99-4 | pg/g | 342 | 3150 | 436 | | | | | | | | 4.97 U | |
| PCB204 | 74472-52-9 | pg/g | 4.86 U | 4.64 U | 4.83 U | | | | | | | | 4.97 U | |
| PCB205 | 74472-53-0 | pg/g | 134 | 1000 | 67.8 | | | | | | | | 4.97 U | |
| PCB206 | 40186-72-9 | pg/g | 555 | 4070 | 347 | | | | | | | | 4.97 U | |
| PCB207 | 52663-79-3 | pg/g | 81.4 | 567 | 50.7 | | | | | | | | 4.97 U | |
| PCB208 | 52663-77-1 | pg/g | 80.2 | 615 | 55.2 | | | | | | | | 4.97 U | |
| PCB209 | 2051-24-3 | pg/g | 13.2 | 140 | 46.2 | | | | | | | | 4.97 U | |
| Total PCB Congeners | 1336-36-3 | pg/g | 57300 JT | 577000 T | 197000 JT | | | | | | | | 290 JT | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 0.194 JT | 2.27 T | 0.254 JT | | | | | | | | 0.000674 JT | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 11.4 T | 40.3 T | 16.6 T | | | | | | | | 4.97 UT | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 96.5 T | 876 T | 144 T | | | | | | | | 13.9 T | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 729 T | 7350 T | 3570 T | | | | | | | | 6.29 T | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 5480 JT | 36700 T | 59000 JT | | | | | | | | 41.2 T | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 9950 JT | 55400 T | 46600 JT | | | | | | | | 86.7 T | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 15400 T | 163000 T | 55800 T | | | | | | | | 85.1 JT | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 14800 T | 214000 T | 25000 T | | | | | | | | 44.4 T | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 10100 T | 93300 T | 6010 T | | | | | | | | 12.6 T | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 717 T | 5250 T | 453 T | | | | | | | | 4.97 UT | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.26 | 23 | 5.4 J | 0.64 U | 0.2 U | 7 NJ | 0.46 U | 0.83 U | 0.16 U | 0.17 U | 0.16 U | |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.12 U | 5.4 U | 2.6 U | 0.22 U | 0.081 U | 0.23 U | 0.054 U | 0.12 U | 0.094 U | 0.14 U | 0.046 U | |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.16 U | 12 U | 8.8 NJ | 0.97 | 0.68 | 6.9 J | 1.1 | 0.16 U | 0.12 U | 0.15 U | 0.061 U | |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.073 U | 0.24 U | 0.31 J | 0.79 J | 0.45 | 5 | 1.3 | 1.2 NJ | 0.49 U | 0.97 J | 0.073 U | |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.027 U | 0.15 U | 0.68 NJ | 1.4 J | 0.84 J | 4.5 NJ | 2 J | 1.4 J | 2.3 NJ | 1.5 J | 0.12 U | |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.65 U | 120 | 1.5 U | 6.1 | 2.7 NJ | 9.6 | 3.2 NJ | 0.51 U | 0.32 U | 0.32 U | 0.18 U | |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.24 NJ | 0.26 | 0.6 U | 0.27 U | 0.28 U | 0.27 U | 0.26 U | 0.12 U | |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.037 U | 2.4 U | 0.45 U | 0.2 U | 0.16 U | 0.19 U | 0.24 U | 0.13 J | 0.1 J | 0.12 J | 0.037 U | |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.49 U | 0.12 U | 0.2 U | 0.097 U | 0.11 U | 0.097 U | |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 1.9 U | 0.13 U | 0.13 U | 0.094 U | 1.8 U | 0.036 U | 0.031 U | 0.058 U | 0.033 U | 0.031 U | |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.14 U | 0.52 | 0.14 U | 0.21 | 0.7 U | 0.33 U | 0.63 U | 0.14 U | 0.15 U | 0.14 U | |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.031 U | 1.5 J | 0.031 U | 0.031 U | 0.16 U | 0.036 U | 0.057 U | 0.061 J | 0.054 U | 0.031 U | |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.94 U | 700 U | 7.2 U | 0.72 U | 1.4 U | 4.1 U | 0.65 U | 0.087 U | 0.089 U | 0.12 U | 0.087 U | |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.59 U | 0.93 U | 0.12 J | 0.11 U | 0.55 U | 0.13 U | 0.11 U | 0.11 U | 0.12 U | 0.11 U | |
| Dieldrin | 60-57-1 | ug/kg | 0.03 U | 0.14 U | 0.047 U | 0.28 U | 0.23 U | 0.7 U | 1.2 NJ | 0.03 U | 0.11 U | 0.18 U | 0.03 U | |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.29 U | 0.067 U | 0.27 U | 0.2 U | 0.21 U | 0.058 U | |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.71 U | 3 U | 0.16 U | 0.071 U | 0.7 U | 0.24 U | 0.071 U | 0.13 U | 0.075 U | 0.071 U | |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.12 U | 12 U | 0.88 U | 0.31 U | 0.26 U | 0.94 U | 0.28 U | 0.042 U | 0.042 U | 0.12 U | 0.042 U | |
| Endrin ketone | 53494-70-5 | ug/kg | 0.12 U | 27 U | 1.4 U | 0.74 U | 0.22 U | 8.5 NJ | 0.27 U | 0.059 U | 0.091 U | 0.11 J | 0.029 U | |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 0.2 J | 0.24 NJ | 0.17 U | 0.062 U | 0.31 U | 0.24 U | 0.29 U | 0.062 U | 0.066 U | 0.062 U | |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.19 NJ | 0.12 J | 0.52 NJ | 0.076 U | 0.7 U | 0.42 U | 0.076 U | 0.076 U | 0.08 U | 0.076 U | |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.068 U | 0.59 U | 0.15 U | 0.24 U | 0.16 U | 0.96 U | 0.32 NJ | 0.2 U | 0.2 U | 0.14 NJ | 0.068 U | |
| Methoxychlor | 72-43-5 | ug/kg | 0.075 U | 11 U | 0.39 U | 0.46 U | 0.28 U | 1.9 U | 0.56 U | 0.075 U | 0.075 U | 0.47 U | 0.075 U | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G777 | LW3-G778 | LW3-G779 | LW3-G780 | LW3-G781 | LW3-G783 | LW3-G784 | LW3-G785 | LW3-G786 | LW3-G787 | LW3-G788 | LW3-G788-R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 21 | 0 - 22 | 0 - 23 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 30 | 0 - 27 | 0 - 26 | 0 - 23 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.47 | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.14 U | 0.12 U | 0.12 U | 0.13 U | 0.12 U | |
| Oxychlordane | 27304-13-8 | ug/kg | 0.2 U | 0.061 U | 0.061 U | 0.2 U | 0.36 U | 0.23 U | 0.24 U | 0.2 U | 0.35 U | 0.21 U | 0.2 U | |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.24 JT | 700 UT | 1.5 JT | 0.72 UT | 1.4 UT | 4.1 JT | 0.65 UT | 0.31 JT | 0.36 JT | 0.21 UT | 0.2 UT | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.058 UT | 2.4 UT | 0.45 UT | 0.2 UT | 0.16 UT | 1.8 UT | 0.24 UT | 0.13 JT | 0.1 JT | 0.12 JT | 0.058 UT | |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.26 T | 23 T | 5.7 JT | 0.79 JT | 0.45 T | 12 JT | 1.3 T | 1.2 JT | 0.49 UT | 0.97 JT | 0.16 UT | |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 0.26 T | 140 T | 15 JT | 9.3 JT | 4.7 JT | 33 JT | 7.6 JT | 2.6 JT | 2.3 JT | 2.5 JT | 0.18 UT | |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.12 UT | 5.4 UT | 0.68 JT | 1.4 JT | 0.84 JT | 4.5 JT | 2 JT | 1.4 JT | 2.3 JT | 1.5 JT | 0.12 UT | |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.65 UT | 120 T | 8.8 JT | 7.1 T | 3.4 JT | 17 JT | 4.3 JT | 0.51 UT | 0.32 UT | 0.32 UT | 0.18 UT | |
| Toxaphene | 8001-35-2 | ug/kg | 14 U | 1300 U | 79 U | 39 U | 36 U | 130 U | 14 U | 38 U | 14 U | 27 U | 3.4 U | |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.24 J | 4 U | 0.38 U | 0.17 U | 0.092 U | 3.9 J | 0.55 U | 0.31 J | 0.19 J | 0.16 U | 0.027 U | |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.2 U | 10 U | 0.2 U | 0.087 U | 0.2 U | 0.2 J | 0.04 U | 0.13 U | 0.11 J | 0.12 U | 0.034 U | |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 8.8 J | 21 J | 17 JT | 130 J | 38 J | 215 JT | 88 J | 37 J | 26 J | 31 J | 2.6 T | |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 6.5 U | 16 J | 13 JT | 130 J | 32 J | 190 JT | 56 J | 21 J | 13 J | 21 J | 1.7 T | |
| Residual Range Hydrocarbons | RRH | mg/kg | 58 J | 130 J | 66 JT | 360 J | 210 J | 575 JT | 480 J | 230 J | 210 J | 200 J | 9.2 T | |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 33 U | 80 J | 40 JT | 280 J | 120 J | 485 JT | 210 J | 92 J | 66 J | 83 J | 6.9 T | |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 66.8 JA | 151 JA | 83 JA | 490 JA | 248 JA | 790 JA | 568 JA | 267 JA | 236 JA | 231 JA | 11.8 A | |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 33 UA | 96 JA | 53 JA | 410 JA | 152 JA | 675 JA | 266 JA | 113 JA | 79 JA | 104 JA | 8.6 A | |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.25 U | 0.28 U | 0.27 U | 0.35 U | 0.33 U | 0.29 U | 0.49 U | 0.39 U | 0.37 U | 2.6 U | 2 U | |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.2 U | 0.23 U | 0.22 U | 0.29 U | 0.27 U | 0.24 U | 0.39 U | 0.32 U | 0.3 U | 0.35 U | 0.21 U | |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.64 U | 0.74 U | 0.69 U | 0.91 U | 0.86 U | 0.76 U | 1.3 U | 1.1 U | 0.97 U | 1.2 U | 0.68 U | |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.13 U | 0.15 U | 0.14 U | 0.19 U | 0.18 U | 0.16 U | 0.26 U | 0.21 U | 0.2 U | 0.23 U | 0.14 U | |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 1 U | 1 U | 5 U | 1 U | 50 U | 1.2 U | 1 U | 1 U | 2.1 U | 1 U | |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 UJ | 5.5 UJ | 5.5 UJ | 28 UJ | 5.5 UJ | 280 UJ | 6.4 U | 5.5 U | 5.5 U | R | R | |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 17 U | 17 U | 85 U | 17 U | R | 20 U | 17 U | 17 U | 36 U | 17 U | |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 2 U | 2 U | 10 U | 2 U | 100 U | 2.4 U | 2 U | 2 U | 4.2 U | 2 U | |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 75 U | 1.8 U | 1.5 U | 1.5 U | 3.2 U | 1.5 U | |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 75 U | 1.8 U | 1.5 U | 1.5 U | 3.2 U | 1.5 U | |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.4 U | 70 U | 1.7 U | 1.4 U | 1.4 U | 3 U | 1.4 U | |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.4 U | 70 U | 1.7 U | 1.4 U | 1.4 U | 3 U | 1.4 U | |
| 4-Methylphenol | 106-44-5 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 13 J | 6.8 J | 75 U | 7.6 J | 6.4 J | 4.9 J | 5.3 J | 1.5 U | |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 18 U | 18 U | 90 U | 18 U | 900 U | 21 U | 18 U | 18 U | 38 U | 18 U | |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.27 J | 1.4 NJ | 0.72 NJ | 0.27 U | 0.26 U | 3.3 U | 4.8 U | 0.3 U | 0.29 U | 2.4 U | 0.25 U | |
| Phenol | 108-95-2 | ug/kg | 2 U | 2 U | 2 U | 21 J | 3.2 J | 100 U | 9.2 J | 14 U | 7.8 U | 15 U | 5.1 U | |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 16 U | 48 U | 14 U | 200 U | 120 U | 560 UJ | 170 | 83 | 36 | 33 J | 9.1 J | |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 18 J | 5.8 J | 160 U | 26 | 17 | 3.2 U | 6.7 U | 3.2 U | |
| Dibutyl phthalate | 84-74-2 | ug/kg | 7.9 U | 15 | 18 | 40 U | 12 | 400 U | 21 | 18 | 360 | 17 U | 7.9 U | |
| Diethyl phthalate | 84-66-2 | ug/kg | 1.3 U | 2 J | 2.2 J | 6.5 U | 2.4 J | 65 U | 3.6 J | 3 J | 2.5 J | 2.9 J | 1.7 J | |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 1 U | 1 U | 5 U | 1 U | 50 U | 1.2 U | 1 U | 1 U | 2.1 U | 1 U | |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 1.7 U | 1.7 U | 8.5 U | 1.7 U | 85 U | 2 U | 1.7 U | 1.7 U | 3.6 U | 1.7 U | |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 2.6 U | 2.6 U | 13 U | 2.6 U | 130 U | 3.1 U | 2.6 U | 2.6 U | 5.5 U | 2.6 U | |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 2.9 U | 2.9 U | 15 U | 2.9 U | 150 U | 3.4 U | 2.9 U | 2.9 U | 6.1 U | 2.9 U | |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 3 U | 3 U | 15 U | 3 U | 150 U | 3.5 U | 3 U | 3 U | 6.3 U | 3 U | |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 4.3 J | 3.6 J | 15 U | 18 | 150 U | 3.4 U | 2.9 U | 2.9 U | 6.1 U | 2.9 U | |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 75 U | 1.8 U | 1.5 U | 1.5 U | 3.2 U | 1.5 U | |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 2 U | 2 U | 10 U | 2 U | 100 U | 2.4 U | 2 U | 2 U | 4.2 U | 2 U | |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 8 U | 1.6 U | 80 U | 1.9 U | 1.6 U | 1.6 U | 3.4 U | 1.6 U | |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 16 U | 3.2 U | 160 U | 3.7 U | 3.2 U | 3.2 U | 6.7 U | 3.2 U | |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 19 U | 3.7 U | 190 U | 4.3 U | R | 3.7 U | 7.8 U | 3.7 U | |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 2.5 U | 2.5 U | 13 U | 2.5 U | 130 U | 2.9 U | R | 2.5 U | 5.3 U | 2.5 U | |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 8 U | 1.6 U | 80 U | 1.9 U | 1.6 U | 1.6 U | 3.4 U | 1.6 U | |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 1.9 U | 1.9 U | 9.5 U | 1.9 U | 95 U | 2.2 U | R | 1.9 U | 4 U | 1.9 U | |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.4 U | 70 U | 1.7 U | 1.4 U | 1.4 U | 3 U | 1.4 U | |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 1.8 U | 1.8 U | 9 U | 1.8 U | 90 U | 2.1 U | 1.8 U | 1.8 U | 3.8 U | 1.8 U | |
| Aniline | 62-53-3 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U | R | 1.8 U | 9.8 J | 7.7 J | 3.2 U | 1.5 U | |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 1.1 U | 1.1 U | 5.5 U | 1.1 U | 55 U | 1.3 U | 1.1 U | 1.1 U | 2.3 U | 1.1 U | |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 96 U | 96 U | 480 U | 96 U | 4800 U | 130 J | 110 J | 100 J | 200 U | 96 U | |
| Benzyl alcohol | 100-51-6 | ug/kg | 2.1 U | 2.1 U | 2.2 J | 11 U | 4.3 J | 110 U | 4.7 J | 6.3 J | 7.5 J | 11 J | 3.6 J | |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 75 U | 1.8 U | 1.5 U | 1.5 U | 3.2 U | 1.5 U | |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 1.9 U | 1.9 U | 9.5 U | 1.9 U | 95 U | 2.2 U | 1.9 U | 1.9 U | 4 U | 1.9 U | |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 2.6 U | 2.6 U | 13 U | 2.6 U | 130 U | 3.1 U | 2.6 U | 2.6 U | 5.5 U | 2.6 U | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-G777 | LW3-G778 | LW3-G779 | LW3-G780 | LW3-G781 | LW3-G783 | LW3-G784 | LW3-G785 | LW3-G786 | LW3-G787 | LW3-G788 | LW3-G788-R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 21 | 0 - 22 | 0 - 23 | 0 - 30 | 0 - 30 | 0 - 26 | 0 - 30 | 0 - 30 | 0 - 27 | 0 - 26 | 0 - 23 | 0 - 23 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 6 J | 1.3 U | 6.5 U | 2.7 J | 65 U | 3.5 J | 1.3 U | 1.3 U | 2.8 U | 1.3 U | |
| Dibenzofuran | 132-64-9 | ug/kg | 0.59 U | 1.4 J | 0.59 U | 3.8 | 1.2 J | 13 | 3.1 | 0.59 U | 0.59 U | 0.96 J | 0.59 U | |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 U | 1.2 U | 0.13 U | 6 U | 1.3 | 0.34 U | 0.3 U | 0.14 U | 0.19 J | 0.14 J | 0.068 U | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.43 U | 0.17 U | 0.2 U | 0.14 U | 0.36 J | 0.14 U | |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 29 U | 29 U | 150 U | 29 U | R | 34 U | 29 U | 29 U | 61 U | 29 U | |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.19 U | 3.1 U | 0.16 U | 0.17 U | 0.16 U | |
| Isophorone | 78-59-1 | ug/kg | 1 U | 1 U | 1 U | 5 U | 1 U | 50 U | 1.2 U | 1 U | 1 U | 2.1 U | 1 U | |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 2.2 U | 2.2 U | 11 U | 2.2 U | 110 U | 2.6 U | 2.2 U | 2.2 U | 4.6 U | 2.2 U | |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 6.1 U | 6.1 U | 31 U | 6.1 U | 310 U | 7.1 U | 6.1 UJ | 6.1 U | 13 U | 6.1 U | |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 8.5 J | 1.8 J | 80 U | 1.9 U | 1.6 U | 1.6 U | 3.4 U | 1.6 U | |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 2.4 U | 2.4 U | 12 U | 2.4 U | 120 U | 2.8 U | 2.4 U | 2.4 U | 5 U | 2.4 U | |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-MG001 | LW3-MG002-1 | LW3-MG002-2 | LW3-MG003 | LW3-MG004 | LW3-MG006 | LW3-MG007 | LW3-MG008 | LW3-MG009 | LW3-MG010 | LW3-UG02A | LW3-UG02B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 28 | 0 - 26 | 0 - 24 | 0 - 21 | 0 - 23 | 0 - 30 | 0 - 28 | 0 - 21 | 0 - 22 | 0 - 26 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 8.9 U | 1.3 U | 3.1 UT | 1.3 U | 22 U | 1.3 U | 4.4 U | 1.8 U | 3.7 U | 1.3 U | 8 U | 2.8 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 6.6 U | 1.3 U | 1.3 UT | 1.3 U | 5 U | 1.3 U | 1.4 U | 1.3 U | 2.6 U | 1.3 U | 3.7 U | 2.8 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 17 U | 1.3 U | 5.7 UT | 1.3 U | 25 U | 1.3 U | 7.5 U | 1.8 U | 4.1 U | 1.3 U | 18 U | 14 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 7.1 U | 5.3 U | 1.5 UT | 1.3 U | 5 U | 1.3 U | 2.9 U | 1.8 U | 1.4 U | 1.3 U | 4 U | 2.1 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.4 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 5.9 NJ | 32 NJ | 6.2 JT | 1.3 U | 6.3 | 7.4 | 9 | 3.1 U | 6.6 J | 1.3 U | 2.5 | 1.8 J |
| Aroclor 1260 | 11096-82-5 | ug/kg | 6.8 | 22 | 19 JT | 1.3 U | 2.3 J | 3.5 | 7.9 | 1.3 U | 4.5 | 1.3 U | 2.3 J | 1.6 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.4 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.4 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 12.7 JT | 54 JT | 25.2 JT | 1.3 UT | 8.6 JT | 10.9 T | 16.9 T | 3.1 UT | 11.1 JT | 1.3 UT | 4.8 JT | 3.4 JT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | | | | | | | | | 66.9 T | 56.6 |
| Specific Gravity | SPEC_GRAV | NA | 1.37 | 1.51 | 1.54 T | 1.99 | 1.7 | 1.58 T | 1.43 | 1.89 | 1.47 | 1.34 | 1.51 T | 1.5 |
| Sulfide | 18496-25-8 | mg/kg | | | | | | | | | | | 11.8 JT | 2.3 J |
| Total organic carbon | TOC | percent | 2.18 | 1.46 | 1.46 T | 0.25 | 0.88 | 0.863 JT | 1.84 | 0.41 | 2.33 | 0.2 | 1.38 T | 1.41 |
| Total solids | TSO | percent | 46.7 | 53.3 | 56.3 T | 74 | 61.5 | 63.6 | 47.8 | 69 | 49.2 | 83.5 | 51.5 | 50.5 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | 0.578 J | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | 0.183 J | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | 2.33 J | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | 12.5 | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | 57.2 | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | 0.347 J | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | 0.42 J | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | 1.49 J | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | 3.26 J | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | 5.26 J | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | 83.6 JT | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | 0.0629 U | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | 0.0552 U | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | 0.0385 U | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | 0.398 J | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | 0.216 J | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | 6.25 | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | 0.164 J | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | 0.037 U | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | 0.037 U | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | 0.0972 J | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | 0.0438 U | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | 0.0495 U | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | 0.0465 U | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | 0.994 J | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | 0.0747 U | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | 0.179 JT | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | | | | 0.185 JT | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 2.05 | 0.37 | 1.96 T | 0.08 | 3.84 | 1.94 T | 0.5 | 0.44 | 1.32 | 49.2 | 0.343 T | 0.37 |
| Fine gravel | GS_FG | percent | 0.71 | 0.49 | 1.17 T | 1.24 | 4.5 | 0.677 T | 0.74 | 1.53 | 2.06 | 18.7 | 0.693 T | 0.45 |
| Very coarse sand | GS_VCS | percent | 0.77 | 0.59 | 0.8 T | 1.72 | 3.26 | 0.5 T | 0.66 | 0.81 | 1.58 | 4.26 | 0.603 T | 0.33 |
| Coarse sand | GS_CS | percent | 1.48 | 0.69 | 0.86 T | 33.2 | 2.17 | 0.947 T | 0.88 | 5.06 | 2.29 | 10 | 0.367 T | 0.32 |
| Medium sand | GS_MS | percent | 1.46 | 1.93 | 3.02 T | 53.1 | 26.3 | 29.3 T | 1.59 | 57 | 9.48 | 15.3 | 2.08 T | 2.02 |
| Fine sand | GS_FS | percent | 22.5 | 18 | 18.1 T | 7.38 | 39.9 | 45.4 T | 8.32 | 22.6 | 42.4 | 2.5 | 29.7 T | 25.3 |
| Very fine sand | GS_VFS | percent | 47.7 | 32.9 | 32 T | 1.03 | 9.47 | 11.2 T | 34.6 | 3.26 | 27 | 0.32 | 24.5 T | 25.3 |
| Fines | GS_FINES | percent | 25.6 T | 51.4 T | 43.3 T | 2.72 T | 17.7 T | 9.37 T | 56.8 T | 7.82 T | 11.8 T | 0.89 T | 45.9 T | 50.1 T |
| Coarse silt | GS_CSILT | percent | 13.2 | 15.6 | 14.4 T | 0.26 | 3.29 | 2.5 T | 33.2 | 1.44 | 2.94 | 0.15 | 19.6 T | 21.3 |
| Medium silt | GS_MSILT | percent | 4.31 | 10.4 | 9.74 T | 0.56 | 4.3 | 2.14 T | 10.2 | 2.26 | 2.57 | 0.21 | 10.4 T | 12.6 |
| Fine silt | GS_FSILT | percent | 2.9 | 8.1 | 7.22 T | 0.5 | 3.14 | 1.4 T | 4.67 | 1.3 | 2.02 | 0.17 | 5.35 T | 5.21 |
| Very fine silt | GS_VFSILT | percent | 0.9 | 3.27 | 2.95 T | 0.48 | 2.77 | 0.61 T | 2.43 | 1.23 | 0.98 | 0.2 | 3.69 T | 3.86 |
| 8-9 Phi clay | GS_CCLAY | percent | 2.34 | 6.46 | 4.41 T | 0.3 | 2.12 | 1.67 T | 3.81 | 0.91 | 2.54 | 0.15 | 2.84 T | 2.93 |
| >9 Phi clay | GS_MFCLAY | percent | 1.97 | 7.54 | 4.59 T | 0.62 | 2.09 | 1.05 T | 2.51 | 0.68 | 0.78 | 0.01 | 4.05 T | 4.16 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-MG001 | LW3-MG002-1 | LW3-MG002-2 | LW3-MG003 | LW3-MG004 | LW3-MG006 | LW3-MG007 | LW3-MG008 | LW3-MG009 | LW3-MG010 | LW3-UG02A | LW3-UG02B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 28 | 0 - 26 | 0 - 24 | 0 - 21 | 0 - 23 | 0 - 30 | 0 - 28 | 0 - 21 | 0 - 22 | 0 - 26 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 26600 | 26500 | 25000 T | 9250 | 18000 | 16500 T | 26800 | 13200 | 23300 | 8250 | 26000 | 29300 |
| Antimony | 7440-36-0 | mg/kg | 0.36 J | 0.41 J | 0.365 JT | 0.17 J | 0.25 J | 0.26 JT | 0.39 J | 0.23 J | 0.33 J | 0.23 J | 0.09 J | 0.08 J |
| Arsenic | 7440-38-2 | mg/kg | 4.23 | 4.39 | 4.85 T | 3.54 | 5.19 | 4.4 T | 3.22 | 2.32 | 3.65 | 3.48 | 2.59 | 2.6 |
| Cadmium | 7440-43-9 | mg/kg | 0.238 | 0.38 | 0.288 T | 0.084 | 0.118 | 0.167 T | 0.218 | 0.125 | 0.184 | 0.025 U | 0.12 | 0.116 |
| Chromium | 7440-47-3 | mg/kg | 27 | 28.1 | 26.2 T | 11 | 20 | 17 T | 24.9 | 14.9 | 20.1 | 8.99 | 28 | 27.9 |
| Copper | 7440-50-8 | mg/kg | 27.4 | 34.9 | 31.6 T | 10.3 | 17.7 | 17.2 T | 32.3 | 15.3 | 22.3 | 4.37 | 29 | 28.8 |
| Lead | 7439-92-1 | mg/kg | 13 | 18 | 21.5 T | 5.8 | 13 | 8.5 T | 9.6 | 6.4 | 9.9 | 2.2 | 8.1 | 7.4 |
| Mercury | 7439-97-6 | mg/kg | 0.052 | 0.179 | 0.172 T | 0.011 J | 0.03 | 0.0435 T | 0.062 | 0.019 | 0.051 | 0.007 J | 0.0375 T | 0.037 |
| Nickel | 7440-02-0 | mg/kg | 22.1 | 22.7 | 21.8 T | 12.2 | 17.3 | 20 T | 20.7 | 16.9 | 18.9 | 4.75 | 23.9 | 23.3 |
| Silver | 7440-22-4 | mg/kg | 0.17 | 0.28 | 0.26 T | 0.06 | 0.11 | 0.095 T | 0.16 | 0.07 | 0.12 | 0.04 | 0.14 | 0.14 |
| Zinc | 7440-66-6 | mg/kg | 97.3 | 138 | 107 T | 78.7 | 105 | 81.9 T | 100 | 66.6 | 100 | 52.1 | 89.2 | 91.7 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 28 | 28 | 19 T | 0.82 J | 2.7 | 8.5 | 5.1 | 1.8 J | 15 | 0.54 J | 0.78 J | 0.87 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 45 | 80 | 43 T | 1.3 J | 5.7 | 15 | 11 | 2.7 | 60 | 1.2 J | 1.3 J | 1.4 J |
| Acenaphthene | 83-32-9 | ug/kg | 46 | 94 | 65 T | 1.4 J | 5.3 | 27 | 14 | 5 | 22 | 1.7 J | 0.61 J | 0.56 J |
| Acenaphthylene | 208-96-8 | ug/kg | 30 | 65 | 70 T | 12 | 18 | 28 | 19 | 10 | 27 | 7.9 | 1.7 J | 1.8 J |
| Anthracene | 120-12-7 | ug/kg | 56 | 85 | 110 T | 5.9 | 18 | 48 | 44 | 12 | 98 | 6.1 | 1.3 J | 2.2 J |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 190 | 360 | 420 T | 87 | 110 | 180 | 140 | 110 | 190 | 47 | 6.1 | 8.2 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 330 | 540 | 690 T | 140 | 200 | 260 | 230 | 160 | 290 | 88 | 7.4 | 8.5 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 300 | 480 | 640 T | 130 | 200 | 230 | 210 | 160 | 310 | 78 | 11 | 11 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 220 | 350 | 450 T | 86 | 140 | 160 | 150 | 100 | 210 | 60 | 6.6 | 6.7 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 270 | 440 | 600 T | 110 | 160 | 200 | 190 | 130 | 240 | 76 | 7.1 | 6.6 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 97 | 150 | 210 T | 42 | 62 | 73 | 67 | 46 | 110 | 25 | 3.4 | 3.5 |
| Chrysene | 218-01-9 | ug/kg | 260 | 450 | 570 T | 110 | 140 | 220 | 190 | 100 | 320 | 63 | 8.4 | 13 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 34 | 58 | 60 T | 12 | 22 | 26 | 23 | 14 | 30 | 8.7 | 1.3 J | 0.97 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 21 | 61 | 41 T | 1.1 J | 5.1 | 25 | 11 | 2.9 | 16 | 5.7 | 0.34 J | 1.1 J |
| Fluoranthene | 206-44-0 | ug/kg | 400 | 760 | 770 T | 71 | 120 | 310 | 270 | 130 | 580 | 67 | 14 | 15 |
| Fluorene | 86-73-7 | ug/kg | 36 | 68 | 55 T | 1.1 J | 4.5 | 26 | 14 | 3.1 | 18 | 2.8 | 0.84 J | 1.3 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 260 | 410 | 540 T | 98 | 150 | 190 | 180 | 130 | 240 | 68 | 5.8 | 5.1 |
| Naphthalene | 91-20-3 | ug/kg | 63 | 130 | 140 T | 5.1 | 16 | 32 | 25 | 8.8 | 73 | 4.5 | 5.7 | 5.3 |
| Perylene | 198-55-0 | ug/kg | 110 | 170 | 320 T | 34 | 55 | 66 | 81 | 46 | 82 | 23 | 23 | 35 |
| Phenanthrene | 85-01-8 | ug/kg | 230 | 440 | 480 T | 11 | 47 | 190 | 100 | 34 | 190 | 74 | 6.6 | 8.7 |
| Pyrene | 129-00-0 | ug/kg | 470 | 920 | 1300 T | 120 | 160 | 410 | 310 | 150 | 600 | 94 | 15 | 17 |
| High Molecular Weight PAH | HPAH | ug/kg | 2600 T | 4600 T | 5800 T | 920 T | 1300 T | 2100 T | 1800 T | 1100 T | 2900 T | 610 T | 80 JT | 89 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 510 T | 960 T | 960 T | 38 JT | 110 T | 370 T | 230 T | 76 T | 490 T | 98 JT | 18 JT | 21 JT |
| Total PAHs | 130498-29-2 | ug/kg | 3100 T | 5500 T | 6800 T | 960 JT | 1400 T | 2500 T | 2000 T | 1200 T | 3400 T | 710 JT | 98 JT | 110 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 140 | 400 | 300 T | 67 | 130 | 160 | 110 | 73 | 130 | 37 | 12 | 21 J |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 15 | 75 | 31 T | 4.2 | 3.7 | 14 | 9.5 | 3.6 | 7.6 | 3.9 | 1.3 J | 8.6 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 200 | 570 | 480 T | 87 | 120 | 240 | 150 | 100 | 240 | 48 | 9.5 | 20 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 15 | 89 | 45 T | 2.7 | 5.2 | 26 | 11 | 3.4 | 10 | 10 | 1.5 J | 4.2 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 80 | 290 | 190 T | 23 | 47 | 98 | 53 | 41 | 81 | 25 | 3.6 | 14 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 86 | 310 | 180 T | 34 | 100 | 98 | 64 | 32 | 69 | 21 | 9.5 | 11 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 22 | 160 | 70 T | 12 | 17 | 37 | 17 | 20 | 26 | 4.7 | 1.8 J | 5.8 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 110 | 370 | 250 T | 56 | 98 | 150 | 87 | 50 | 100 | 33 | 9.8 | 16 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 18 | 170 | 67 T | 7.7 | 10 | 41 | 16 | 8.6 | 17 | 14 | 3 | 6.7 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 52 | 110 | 49 T | 1.8 J | 6.1 | 36 | 17 | 3.8 | 41 | 2.6 | 1.8 J | 4.1 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 110 | 540 | 260 T | 44 | 58 | 140 | 87 | 36 | 95 | 33 | 11 | 15 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 47 | 190 | 120 T | 16 | 77 | 54 | 41 | 19 | 41 | 12 | 8 | 12 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 30 | 170 | 110 T | 11 | 26 | 41 | 31 | 13 | 41 | 5 | 2.9 | 3.6 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 72 | 280 | 150 T | 29 | 85 | 81 | 41 | 28 | 53 | 18 | 6.6 | 8.2 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 32 | 250 | 96 T | 17 | 21 | 54 | 25 | 17 | 29 | 11 | 3.8 | 6.9 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 28 | 200 | 56 T | 2 J | 5.1 | 51 | 11 | 4.7 | 15 | 13 | 1.6 J | 12 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 160 | 430 | 250 T | 49 | 76 | 110 | 75 | 38 | 53 | 25 | 14 | 9.7 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 20 | 85 | 52 T | 6.4 | 43 | 24 | 19 | 10 | 12 | 0.25 U | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 27 | 170 | 53 T | 6 | 6.1 | 35 | 14 | 6.4 | 18 | 13 | 2.2 J | 18 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 32 | 250 | 95 T | 17 | 44 | 68 | 24 | 12 | 24 | 15 | 7.7 | 7.9 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | 13.7 | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | 20.2 U | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | 20.2 U | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | 20.2 U | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | 20.2 U | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-MG001 | LW3-MG002-1 | LW3-MG002-2 | LW3-MG003 | LW3-MG004 | LW3-MG006 | LW3-MG007 | LW3-MG008 | LW3-MG009 | LW3-MG010 | LW3-UG02A | LW3-UG02B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 28 | 0 - 26 | 0 - 24 | 0 - 21 | 0 - 23 | 0 - 30 | 0 - 28 | 0 - 21 | 0 - 22 | 0 - 26 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | 124 | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | 20.2 U | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | 20.2 U | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | 20.2 U | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | 13.8 | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | 10.4 | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | 21.4 | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | 16.9 | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | 12.9 | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | 6.92 J | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | 44.8 | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | 30 | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | 18.1 | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | 36 | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | 17.1 | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | 65.9 | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | 60.6 | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | 6.51 J | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | 29.8 | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | 10.9 | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | 79 | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | 7.91 J | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | 85.2 | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | 80.7 | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | 32.8 | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | 10.4 U | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | 1.27 U | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | 18.2 | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | 50.1 | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | 25.7 | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | 39.3 | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | 20.2 | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | 130 | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | 10.1 U | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-MG001 | LW3-MG002-1 | LW3-MG002-2 | LW3-MG003 | LW3-MG004 | LW3-MG006 | LW3-MG007 | LW3-MG008 | LW3-MG009 | LW3-MG010 | LW3-UG02A | LW3-UG02B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 28 | 0 - 26 | 0 - 24 | 0 - 21 | 0 - 23 | 0 - 30 | 0 - 28 | 0 - 21 | 0 - 22 | 0 - 26 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | 83.2 | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | 39.1 | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | 74.2 | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | 45.6 | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | 136 | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | 12 | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | 6.95 J | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | 166 | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | 2.38 J | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | 2.75 U | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | 5.94 J | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | 1.91 U | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | 25.2 | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | 12.5 | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | 37.5 | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | 21.7 | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | 19.9 | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | 159 | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | 119 | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | 28.1 | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | 7.21 J | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | 24.1 | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | 37.7 | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | 168 | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | 14.9 | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | 4.63 J | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | 17.2 | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | 7.49 J | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | 4.09 U | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | 47 | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | 11.2 | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | 9.37 J | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | 49.7 | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | 6.48 J | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | 33.5 | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | 11.5 UJ | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-MG001 | LW3-MG002-1 | LW3-MG002-2 | LW3-MG003 | LW3-MG004 | LW3-MG006 | LW3-MG007 | LW3-MG008 | LW3-MG009 | LW3-MG010 | LW3-UG02A | LW3-UG02B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 28 | 0 - 26 | 0 - 24 | 0 - 21 | 0 - 23 | 0 - 30 | 0 - 28 | 0 - 21 | 0 - 22 | 0 - 26 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | 26.9 | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | 111 | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | 73.2 | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | 28.6 | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | 6.94 J | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | 3.03 U | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | 11.8 | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | 6.29 J | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | 26.7 | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | 10.1 | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | 37.6 | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | 43.4 | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | 19.4 | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | 10.1 U | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | 6.01 J | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | 29.3 | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | 2980 JT | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | 0.00633 JT | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | 13.7 T | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | 124 T | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | 175 JT | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | 512 JT | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | 855 JT | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | 704 JT | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | 422 JT | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | 118 T | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | 25.4 JT | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 1.8 NJ | 3.2 J | 0.94 JT | 0.16 U | 0.76 J | 0.96 J | 1.2 J | 0.43 | 0.51 NJ | 0.16 U | 0.16 U | 0.16 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.05 U | 1.5 | 0.046 UT | 0.14 U | 0.097 U | 0.046 U | 0.21 U | 0.046 U | 0.047 U | 0.046 U | 0.093 U | 0.11 J |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.94 J | 2.2 U | 0.41 UT | 0.061 U | 0.68 | 0.2 U | 0.85 U | 0.13 U | 0.43 | 0.061 U | 0.32 | 0.23 J |
| 4,4'-DDD | 72-54-8 | ug/kg | 2.4 | 7.4 | 1.8 T | 0.17 J | 1 | 1.9 | 2 | 0.78 | 2.5 | 0.17 J | 0.33 | 0.36 |
| 4,4'-DDE | 72-55-9 | ug/kg | 2 J | 7.5 J | 1.1 JT | 0.17 U | 0.68 J | 0.86 J | 1.8 | 0.23 | 2.2 NJ | 0.12 U | 0.92 J | 0.93 |
| 4,4'-DDT | 50-29-3 | ug/kg | 2.4 J | 12 | 2 JT | 0.18 U | 2.3 | 0.76 J | 3.2 | 0.54 J | 0.95 U | 0.18 U | 0.18 U | 0.53 U |
| Aldrin | 309-00-2 | ug/kg | 0.48 | 0.12 U | 0.12 UT | 0.12 U | 0.12 U | 0.12 U | 0.65 | 0.12 U | 0.31 U | 0.12 U | 0.3 J | 0.32 J |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.15 J | 0.2 U | 0.15 UT | 0.058 U | 0.058 U | 0.25 U | 0.18 U | 0.038 U | 0.13 J | 0.037 U | 0.067 U | 0.089 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.15 U | 0.097 U | 0.097 UT | 0.097 U | 0.097 U | 0.097 U | 0.11 U | 0.097 U | 0.099 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.092 J | 0.31 U | 0.18 JT | 0.076 J | 0.18 U | 0.2 U | 0.16 J | 0.031 U | 0.63 | 0.031 U | 0.031 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.45 U | 0.38 U | 0.14 UT | 0.14 U | 0.14 U | 0.14 U | 0.15 U | 0.14 U | 0.65 U | 0.14 U | 0.14 U | 0.2 J |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.22 U | 0.031 U | 0.031 UT | 0.031 U | 0.031 U | 0.031 U | 0.033 U | 0.031 U | 0.11 U | 0.031 U | 0.06 J | 0.098 J |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.29 U | 1.4 U | 0.24 UT | 0.13 U | 0.087 U | 0.15 U | 0.46 U | 0.087 U | 0.19 U | 0.087 U | 0.23 U | 0.18 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.24 U | 0.8 U | 0.11 UT | 0.11 U | 0.11 U | 0.11 U | 0.12 U | 0.11 U | 0.15 U | 0.11 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.97 J | 0.28 U | 0.2 UT | 0.2 U | 0.33 | 0.2 U | 0.41 | 0.043 NJ | 0.46 U | 0.03 U | 0.03 U | 0.03 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.3 U | 0.2 U | 0.058 UT | 0.058 U | 0.058 U | 0.12 U | 0.21 U | 0.058 U | 0.25 U | 0.058 U | 0.2 U | 0.2 U |
| Endrin | 72-20-8 | ug/kg | 0.23 U | 0.071 U | 0.11 UT | 0.096 J | 0.071 U | 0.3 U | 0.21 U | 0.071 U | 0.21 U | 0.071 U | 0.071 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.045 U | 0.5 U | 0.042 UT | 0.042 U | 0.24 NJ | 0.2 U | 0.16 U | 0.052 U | 0.21 U | 0.042 U | 0.042 U | 0.087 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.26 U | 0.43 U | 0.19 UT | 0.029 U | 0.11 U | 0.14 U | 0.28 U | 0.045 U | 0.21 U | 0.029 U | 0.11 J | 0.12 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.35 U | 0.49 U | 1.4 JT | 0.062 U | 0.12 U | 0.74 NJ | 0.31 NJ | 0.073 U | 0.69 U | 0.062 U | 0.062 U | 0.062 U |
| Heptachlor | 76-44-8 | ug/kg | 0.67 J | 0.73 NJ | 0.076 UT | 0.076 U | 0.076 U | 0.076 U | 0.08 U | 0.076 U | 0.3 U | 0.076 U | 0.076 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.22 U | 0.3 U | 0.17 JT | 0.072 J | 0.12 U | 0.13 J | 0.21 U | 0.068 U | 0.25 U | 0.068 U | 0.2 U | 0.068 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.51 U | 0.32 U | 0.3 UT | 0.075 U | 0.2 U | 0.2 U | 0.37 U | 0.075 U | 1.3 U | 0.075 U | 0.5 U | 0.43 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-MG001 | LW3-MG002-1 | LW3-MG002-2 | LW3-MG003 | LW3-MG004 | LW3-MG006 | LW3-MG007 | LW3-MG008 | LW3-MG009 | LW3-MG010 | LW3-UG02A | LW3-UG02B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 28 | 0 - 26 | 0 - 24 | 0 - 21 | 0 - 23 | 0 - 30 | 0 - 28 | 0 - 21 | 0 - 22 | 0 - 26 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.13 U | 0.12 U | 0.12 UT | 0.12 U | 0.12 U | 0.12 U | 0.13 U | 0.12 U | 0.13 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.72 U | 0.2 U | 0.061 UT | 0.061 U | 0.061 U | 0.061 U | 0.44 U | 0.078 U | 2.8 NJ | 0.061 U | 0.23 U | 0.2 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.55 JT | 1.2 JT | 0.12 JT | 0.13 UT | 0.16 UT | 0.3 JT | 0.52 JT | 0.056 JT | 2.8 JT | 0.071 JT | 0.34 JT | 0.41 JT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.24 JT | 0.31 UT | 0.18 JT | 0.076 JT | 0.18 UT | 0.25 UT | 0.16 JT | 0.058 UT | 0.76 JT | 0.058 UT | 0.2 UT | 0.089 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 4.2 JT | 11 JT | 2.7 JT | 0.17 JT | 1.8 JT | 2.9 JT | 3.2 JT | 1.2 T | 3 JT | 0.17 JT | 0.33 T | 0.36 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 9.5 JT | 32 JT | 5.8 JT | 0.17 JT | 5.4 JT | 4.5 JT | 8.2 JT | 2 JT | 5.6 JT | 0.17 JT | 1.6 JT | 1.6 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 2 JT | 9 JT | 1.1 JT | 0.17 UT | 0.68 JT | 0.86 JT | 1.8 T | 0.23 T | 2.2 JT | 0.12 UT | 0.92 JT | 1 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 3.3 JT | 12 T | 2 JT | 0.18 UT | 3 T | 0.76 JT | 3.2 T | 0.54 JT | 0.43 T | 0.18 UT | 0.32 T | 0.23 JT |
| Toxaphene | 8001-35-2 | ug/kg | 44 U | 44 U | 24 UT | 4.2 U | 19 U | 13 U | 32 U | 12 U | 17 U | 4.5 U | 7.2 U | 9.9 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.38 | 1.2 U | 0.2 UT | 0.051 U | 0.16 U | 0.15 U | 0.31 NJ | 0.056 J | 0.28 U | 0.071 J | 0.21 J | 0.22 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.17 NJ | 1.2 NJ | 0.12 JT | 0.058 U | 0.074 U | 0.3 NJ | 0.21 J | 0.034 U | 0.035 U | 0.034 U | 0.07 J | 0.088 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 76 J | 190 J | 170 JT | 7.2 J | 28 J | 72 JT | 62 J | 10 J | 1500 J | 8.35 JT | 37.2 JT | 32 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 35 J | 160 J | 130 JT | 4.1 J | 15 J | 28.5 JT | 36 J | 7.1 U | 1200 J | 4.09 JT | 34 JT | 26 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 420 J | 450 J | 435 JT | 24 U | 90 J | 130 JT | 360 J | 45 J | 550 J | 18.5 JT | 217 JT | 230 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 110 J | 260 J | 245 JT | 13 U | 44 J | 40.2 JT | 120 J | 24 U | 200 J | 12.4 JT | 98.5 JT | 89 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 496 JA | 640 JA | 605 JA | 7.2 JA | 118 JA | 202 JA | 422 JA | 55 JA | 2050 JA | 26.9 JA | 254 JA | 262 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 145 JA | 420 JA | 375 JA | 4.1 JA | 59 JA | 68.7 JA | 156 JA | 24 UA | 1400 JA | 16.5 JA | 133 JA | 115 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.45 U | 0.39 U | 0.36 UT | 0.28 U | 0.33 U | 1.5 U | 0.43 U | 0.31 U | 0.42 U | 0.25 U | 0.41 U | 0.42 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.37 U | 0.31 U | 0.29 UT | 0.23 U | 0.27 U | 1.4 NJ | 0.35 U | 0.25 U | 0.34 U | 0.21 U | 0.33 U | 0.34 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.2 U | 1 U | 0.93 UT | 0.99 U | 0.86 U | 0.86 U | 1.2 U | 0.79 U | 1.1 U | 0.66 U | 1.1 U | 1.1 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.24 U | 0.2 U | 0.19 UT | 0.15 U | 0.18 U | 0.18 U | 0.23 U | 0.16 U | 0.22 U | 0.14 U | 0.22 U | 0.22 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1.1 U | 5 U | 5 UT | 1 U | 1 U | 1 U | 1.1 U | 5 U | 1.1 U | 1 U | 1 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.8 U | 28 U | 28 UT | R | R | 5.5 UJ | 5.8 UJ | 28 UJ | 5.6 U | 5.5 U | 5.5 U | 5.5 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 18 U | 85 U | 85 UT | 17 U | 17 U | 17 U | 18 U | 85 U | 18 U | 17 U | 17 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2.1 U | 10 U | 10 UT | 2 U | 2 U | 2 U | 2.1 U | 10 U | 2.1 U | 2 U | 2 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.6 U | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | 1.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 1.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.6 U | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | 1.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 1.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.5 U | 7 U | 7 UT | 1.4 U | 1.4 U | 1.4 U | 1.5 U | 7 U | 1.5 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.5 U | 7 U | 7 UT | 1.4 U | 1.4 U | 1.4 U | 1.5 U | 7 U | 1.5 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 10 J | 29 J | 37 JT | 1.5 U | 1.5 U | 4.5 J | 8.7 J | 7.5 U | 5.8 J | 2 J | 6.8 J | 6.5 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 19 U | 90 U | 90 UT | 18 U | 18 U | 18 U | 19 U | 90 U | 19 U | 18 U | 18 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 4 U | 5.8 U | 0.27 UT | 0.21 U | 1.6 J | 0.75 J | 0.33 U | 0.5 NJ | 2.3 U | 0.19 U | 0.31 U | 0.34 U |
| Phenol | 108-95-2 | ug/kg | 4.4 J | 10 U | 10 UT | 2 U | 3.2 J | 2 U | 5.6 J | 470 U | 2.1 U | 5.1 J | 18 U | 19 U |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 81 | 56 J | 81 JT | 7 U | 28 | 14 J | 140 | 43 J | 71 | 7 U | 65 J | 110 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.4 U | 16 U | 38 JT | 3.2 U | 3.2 U | 9 J | 3.4 U | 16 U | 3.3 U | 3.2 U | 5 J | 16 |
| Dibutyl phthalate | 84-74-2 | ug/kg | 21 | 40 U | 40 UT | 9.6 J | 10 | 28 | 21 | 40 U | 16 | 8.1 J | 15 J | 23 |
| Diethyl phthalate | 84-66-2 | ug/kg | 4.7 J | 6.5 U | 6.5 UT | 2 J | 2.2 J | 4.1 J | 4.2 J | 6.5 U | 2.6 J | 2 J | 3.7 UJ | 5.4 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1.9 J | 5 U | 5 UT | 1 U | 1 U | 1 U | 1.9 J | 5 U | 1.1 U | 1 U | 1 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.8 U | 8.5 U | 8.5 UT | 1.7 U | 1.7 U | 1.7 U | 1.8 U | 8.5 U | 1.8 U | 1.7 U | 1.7 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.8 U | 13 U | 13 UT | 2.6 U | 2.6 U | 2.6 U | 2.8 U | 13 U | 2.7 U | 2.6 U | 2.6 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 3.1 U | 15 U | 15 UT | 2.9 U | 2.9 U | 2.9 U | 3.1 U | 15 U | 3 U | 2.9 U | 2.9 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3.2 U | 15 U | 15 UT | 3 U | 3 U | 3 U | 3.2 U | 15 U | 3.1 U | 3 U | 3 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 3.1 U | 15 U | 15 UT | 2.9 U | 2.9 U | 2.9 U | 3.1 U | 15 U | 3 U | 2.9 U | 2.9 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.6 U | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | 1.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 1.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2.1 U | 10 U | 10 UT | 2 U | 2 U | 2 U | 2.1 U | 10 U | 2.1 U | 2 U | 2 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.7 U | 8 U | 8 UT | 1.6 U | 1.6 U | 1.6 U | 1.7 U | 8 U | 1.7 U | 1.6 U | 1.6 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.4 U | 16 U | 16 UT | 3.2 U | 3.2 U | 3.2 U | 3.4 U | 16 U | 3.3 U | 3.2 U | 3.2 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.9 U | 19 U | 19 UT | 3.7 U | 3.7 U | R | 3.9 U | 19 UJ | 3.8 U | 3.7 U | R | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.7 U | 13 U | 13 UT | 2.5 U | 2.5 U | 2.5 U | 2.7 U | 13 U | 2.6 U | 2.5 U | 2.5 UJ | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.7 U | 8 U | 8 UT | 1.6 U | 1.6 U | 1.6 U | 1.7 U | 8 U | 1.7 U | 1.6 U | 1.6 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 2 U | 9.5 U | 9.5 UT | 1.9 U | 1.9 U | 1.9 U | 2 U | 9.5 U | 2 U | 1.9 U | R | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.5 U | 7 U | 7 UT | 1.4 U | 1.4 U | 1.4 U | 1.5 U | 7 U | 1.5 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.9 U | 9 U | 9 UT | 1.8 U | 1.8 U | 1.8 U | 1.9 U | 9 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 1.6 U | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | R | 1.6 U | 7.5 U | 1.6 U | 1.5 U | R | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.2 U | 5.5 U | 5.5 UT | 1.1 U | 1.1 U | 1.1 U | 1.2 U | 5.5 U | 1.2 U | 1.1 U | 1.1 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 120 J | 480 U | 480 UT | 96 U | 96 U | 96 U | 110 J | 480 U | 99 J | 96 U | 120 J | 130 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 6 J | 11 U | 11 UT | 2.7 J | 4.4 J | 3.5 J | 5.3 J | 11 U | 5.5 J | 2.1 U | 15 | 17 |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.6 U | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | 1.5 U | 1.6 U | 7.5 U | 1.6 U | 1.5 U | 1.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 2 U | 9.5 U | 9.5 UT | 1.9 U | 1.9 U | 1.9 U | 2 U | 9.5 U | 2 U | 1.9 U | 1.9 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.8 U | 13 U | 13 UT | 2.6 U | 2.6 U | 2.6 U | 2.8 U | 13 U | 2.7 U | 2.6 U | 2.6 U | 2.6 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-MG001 | LW3-MG002-1 | LW3-MG002-2 | LW3-MG003 | LW3-MG004 | LW3-MG006 | LW3-MG007 | LW3-MG008 | LW3-MG009 | LW3-MG010 | LW3-UG02A | LW3-UG02B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 22 | 0 - 28 | 0 - 26 | 0 - 24 | 0 - 21 | 0 - 23 | 0 - 30 | 0 - 28 | 0 - 21 | 0 - 22 | 0 - 26 | 0 - 30 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 11 | 18 J | 17 JT | 1.3 U | 7 J | 6.7 J | 6.1 J | 6.5 U | 21 | 1.3 U | 1.6 J | 1.7 J |
| Dibenzofuran | 132-64-9 | ug/kg | 19 | 31 | 21 T | 0.59 U | 1.2 J | 4 | 4.7 | 0.82 J | 8.4 | 0.59 U | 0.72 J | 0.95 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.29 J | 0.62 J | 0.33 JT | 0.068 U | 0.086 U | 0.2 J | 0.26 J | 0.068 U | 0.44 | 0.068 U | 0.13 J | 0.13 J |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.15 U | 0.14 U | 0.14 UT | 0.14 U | 0.24 U | 0.14 U | 0.15 U | 0.14 U | 2.6 U | 0.14 U | 0.21 | 0.2 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 31 U | 150 U | 150 UT | 29 U | 29 U | 29 U | 31 U | 150 U | 30 U | 29 U | 29 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.18 U | 0.16 U | 0.16 UT | 0.16 U | 0.16 U | 0.16 U | 0.17 U | 0.16 U | 0.17 U | 0.16 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1.1 U | 5 U | 5 UT | 1 U | 1 U | 1 U | 1.1 U | 5 U | 1.1 U | 1 U | 1 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.4 U | 11 U | 11 UT | 2.2 U | 2.2 U | 2.2 U | 2.4 U | 11 U | 2.3 U | 2.2 U | 2.2 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.4 U | 31 U | 31 UT | 6.1 U | 6.1 U | 6.1 UJ | 6.4 U | 31 U | 6.2 U | 6.1 U | 6.1 UJ | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.7 U | 8 U | 8 UT | 1.6 U | 1.6 U | 1.6 U | 1.7 U | 8 U | 1.7 U | 1.6 U | 1.6 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.6 U | 12 U | 12 UT | 2.4 U | 2.4 U | 2.4 U | 2.6 U | 12 U | 2.5 U | 2.4 U | 2.4 U | 2.4 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG02C | LW3-UG02C-R | LW3-UG02D | LW3-UG02E-1 | LW3-UG02E-2 | LW3-UG02F | LW3-UG03A-1 | LW3-UG03A-2 | LW3-UG03B | LW3-UG03B-R | LW3-UG03C | LW3-UG04A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 28 | 0 - 27 | 0 - 28 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 27 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 15 | | 1.3 U | 1.5 U | 1.4 U | 1.5 U | 1.3 U | 1.4 UT | 9.2 U | | 14 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 5 U | | 1.3 U | 1.5 U | 1.4 U | 1.5 U | 1.3 U | 1.4 UT | 1.6 U | | 1.5 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 21 NJ | | 1.3 U | 1.5 U | 1.4 U | 1.5 U | 1.3 U | 1.4 UT | 34 U | | 29 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 13 NJ | | 1.3 U | 1.5 U | 1.4 U | 1.5 U | 1.3 U | 1.4 UT | 6.9 U | | 15 U | 1.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | | 1.3 U | 1.5 U | 1.4 U | 1.5 U | 1.3 U | 1.4 UT | 1.6 U | | 1.5 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 1.9 J | | 2.8 | 3 | 3.1 | 2.5 U | 1.9 U | 1.9 UT | 3.7 | | 4.3 | 1.3 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 1.9 J | | 2.3 J | 3 J | 2 J | 1.8 J | 1.8 U | 1.4 UT | 3.4 J | | 3.3 J | 1.3 U |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | | 1.3 U | 1.5 U | 1.4 U | 1.5 U | 1.3 U | 1.4 UT | 1.6 U | | 1.5 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | | 1.3 U | 1.5 U | 1.4 U | 1.5 U | 1.3 U | 1.4 UT | 1.6 U | | 1.5 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 52.8 JT | | 5.1 JT | 6 JT | 5.1 JT | 1.8 JT | 1.9 UT | 1.9 UT | 7.1 JT | | 7.6 JT | 1.3 UT |
| **Conventionals** | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 54.3 T | | | | | | 38.9 J | 35.1 JT | 117 | | 59.7 | |
| Specific Gravity | SPEC_GRAV | NA | 1.52 | | 1.51 | 1.41 | 1.44 | 1.37 | 1.47 | 1.44 T | 1.38 | | 1.38 | 1.52 |
| Sulfide | 18496-25-8 | mg/kg | 9.3 J | | | | | | 0.4 U | 0.2 UT | 2.5 J | | 2.9 J | |
| Total organic carbon | TOC | percent | 1.23 | | 1.08 | 1.93 | 1.75 | 1.94 | 1.24 | 1.23 T | 1.79 | | 1.62 | 1.12 |
| Total solids | TSO | percent | 52.1 | | 53.8 | 46 | 47.2 | 43.8 | 50 | 51 T | 41.8 | | 43.5 | 52.2 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | 1.07 | | 0.523 J | 0.491 J | | 0.683 | 1.13 T | | 0.646 | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | 0.642 J | | 0.244 J | 0.0986 J | | 0.0321 U | 0.486 JT | | 0.233 J | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | 8.2 | | 2.98 J | 2.8 J | | 1.71 J | 3.35 JT | | 3.52 | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | 22.4 | | 15.3 | 13.4 | | 9.45 | 17.5 T | | 16 | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | 102 | | 73.3 | 62.6 | | 41.7 | 80.2 T | | 65.3 | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | 0.76 | | 0.155 J | 0.486 J | | 0.465 J | 0.946 T | | 0.587 | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | 1.52 J | | 0.906 J | 0.765 J | | 0.00787 U | 1.16 JT | | 0.87 J | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | 4.08 | | 1.59 J | 2.19 J | | 1.28 J | 2.39 JT | | 1.78 J | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | 7.09 | | 5.25 | 4.15 | | 2.75 J | 5.24 T | | 3.73 | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | 9.43 | | 7.16 J | 5.47 J | | 3.5 J | 6.82 JT | | 4.94 | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | 157 JT | | 107 JT | 92.5 JT | | 61.5 JT | 119 JT | | 97.6 JT | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | 0.00506 U | | 0.0219 U | 0.00613 U | | 0.00601 U | 0.00589 UT | | 0.0117 U | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | 0.112 J | | 0.0819 U | 0.0784 J | | 0.0556 U | 0.0843 JT | | 0.0692 J | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | 0.101 J | | 0.083 J | 0.071 U | | 0.078 J | 0.0651 JT | | 0.0989 J | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | 0.568 U | | 0.454 J | 0.431 J | | 0.265 J | 0.497 JT | | 0.411 J | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | 1.01 J | | 0.206 J | 0.293 J | | 0.177 U | 0.33 JT | | 0.384 J | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | 11.2 | | 8.06 | 7.13 | | 4.67 | 8.73 T | | 7.44 | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | 0.245 J | | 0.05 U | 0.0584 U | | 0.074 U | 0.144 JT | | 0.0375 U | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | 0.0587 J | | 0.0122 U | 0.0394 J | | 0.00761 U | 0.0388 JT | | 0.011 U | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | 0.0846 J | | 0.0194 U | 0.0144 U | | 0.00787 U | 0.0804 JT | | 0.055 J | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | 0.191 J | | 0.134 J | 0.123 J | | 0.0722 J | 0.132 JT | | 0.109 U | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | 0.0926 U | | 0.0784 J | 0.0663 J | | 0.0513 J | 0.0877 JT | | 0.0593 U | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | 0.0988 UJ | | 0.0323 U | 0.0227 U | | 0.0335 U | 0.0207 UT | | 0.0246 U | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | 0.0317 U | | 0.0307 U | 0.105 J | | 0.0315 U | 0.123 JT | | 0.0217 U | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | 2.18 J | | 1.58 J | 1.32 J | | 0.885 J | 1.57 JT | | 1.15 J | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | 0.158 J | | 0.11 J | 0.1 J | | 0.0561 U | 0.0474 UT | | 0.0561 U | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | 0.463 JT | | 0.217 JT | 0.287 JT | | 0.116 JT | 0.377 JT | | 0.282 JT | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.136 JA | 0.463 JA | | 0.41 JT | 0.449 JT | | 0.123 JT | 1.03 JT | 0.00176 JA | 0.282 JA | | |
| **Grain Size** | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.11 | | 0.08 | 1.05 | 0.05 | 0.2 | 0 | 0.125 T | 0 | | 0.45 | 0.37 |
| Fine gravel | GS_FG | percent | 0.9 | | 0.31 | 0.34 | 0.86 | 1.16 | 0.23 | 0.335 T | 0.29 | | 1.43 | 0.33 |
| Very coarse sand | GS_VCS | percent | 0.81 | | 0.39 | 0.28 | 0.49 | 0.72 | 0.37 | 0.58 T | 0.6 | | 1.07 | 0.33 |
| Coarse sand | GS_CS | percent | 0.48 | | 0.37 | 0.44 | 0.33 | 0.54 | 3.29 | 0.767 T | 1.51 | | 1.56 | 1.03 |
| Medium sand | GS_MS | percent | 2.04 | | 1.91 | 1.6 | 1.5 | 3.28 | 44.6 | 5.43 T | 13.5 | | 13.2 | 17.4 |
| Fine sand | GS_FS | percent | 27.9 | | 29.4 | 19.4 | 22 | 23.6 | 16.6 | 28.5 T | 9.09 | | 10.6 | 32.5 |
| Very fine sand | GS_VFS | percent | 26.6 | | 29.3 | 19.8 | 20.9 | 17.1 | 7.52 | 22.9 T | 16.1 | | 18.5 | 13.5 |
| Fines | GS_FINES | percent | 40.6 T | | 39.6 T | 58.5 T | 56 T | 54.5 T | 44.8 T | 38.2 T | 67.1 T | | 55.9 T | 36.7 T |
| Coarse silt | GS_CSILT | percent | 20.7 | | 16.9 | 24 | 22.4 | 20.8 | 6.59 | 23.4 T | 29.2 | | 26.7 | 12.2 |
| Medium silt | GS_MSILT | percent | 8.6 | | 8.24 | 12 | 13.5 | 12.1 | 13 | 5.08 T | 14.9 | | 11.5 | 9.57 |
| Fine silt | GS_FSILT | percent | 3.32 | | 4.57 | 7.6 | 5.9 | 7.93 | 9.78 | 3.54 T | 9.09 | | 6.71 | 7.94 |
| Very fine silt | GS_VFSILT | percent | 2.83 | | 3.55 | 6.04 | 5.82 | 6.24 | 6.13 | 2.53 T | 5.98 | | 4.88 | 2.4 |
| 8-9 Phi clay | GS_CCLAY | percent | 2 | | 2.73 | 3.87 | 3.5 | 3.64 | 3.37 | 1.35 T | 3.11 | | 2.37 | 2.36 |
| >9 Phi clay | GS_MFCLAY | percent | 3.14 | | 3.61 | 4.99 | 4.9 | 3.83 | 5.93 | 2.32 T | 4.84 | | 3.73 | 2.19 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG02C | LW3-UG02C-R | LW3-UG02D | LW3-UG02E-1 | LW3-UG02E-2 | LW3-UG02F | LW3-UG03A-1 | LW3-UG03A-2 | LW3-UG03B | LW3-UG03B-R | LW3-UG03C | LW3-UG04A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 28 | 0 - 27 | 0 - 28 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 27 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 27800 | | 31900 | 31600 | 31700 | 32100 | 28900 | 26700 T | 29100 | | 28700 T | 23900 |
| Antimony | 7440-36-0 | mg/kg | 0.08 J | | 0.66 J | 0.76 J | 0.75 J | 0.77 J | 0.09 J | 0.08 JT | 0.1 J | | 0.105 JT | 0.63 J |
| Arsenic | 7440-38-2 | mg/kg | 2.81 | | 2.7 | 3.31 | 3.16 | 3.43 | 2.61 | 2.84 T | 3.38 J | | 3.03 T | 2.54 |
| Cadmium | 7440-43-9 | mg/kg | 0.122 | | 0.116 | 0.148 | 0.139 | 0.145 | 0.115 | 0.113 T | 0.151 | | 0.145 T | 0.099 |
| Chromium | 7440-47-3 | mg/kg | 27.8 | | 25.3 J | 27.1 J | 26.5 J | 27.1 J | 21.3 | 21.6 T | 26.7 | | 25.9 T | 20.9 J |
| Copper | 7440-50-8 | mg/kg | 28.6 | | 26.4 | 31.3 | 29.9 | 31.3 | 25.4 J | 26.5 JT | 32 | | 30.1 T | 23.6 |
| Lead | 7439-92-1 | mg/kg | 7.9 | | 7.1 | 8.8 | 7.7 | 8.1 | 7 J | 7.4 JT | 10 | | 8.75 T | 6.4 |
| Mercury | 7439-97-6 | mg/kg | 0.034 | | 0.035 | 0.051 | 0.042 | 0.047 | 0.035 | 0.0415 T | 0.054 | | 0.043 | 0.027 |
| Nickel | 7440-02-0 | mg/kg | 23.5 | | 21.8 | 22 | 21.9 | 22.5 | 21 J | 21.4 JT | 22.4 | | 21.7 T | 19.7 |
| Silver | 7440-22-4 | mg/kg | 0.12 | | 0.19 | 0.21 | 0.21 | 0.21 | 0.112 | 0.109 T | 0.146 | | 0.15 T | 0.17 |
| Zinc | 7440-66-6 | mg/kg | 87.9 | | 89.7 | 96.9 | 95.8 | 96.1 | 92.3 | 85.2 T | 94.5 | | 95 T | 79.3 |
| **PAHs** | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 0.78 J | | 0.75 J | 0.67 J | 0.93 J | 1 J | 0.72 J | 0.88 JT | 1.3 J | | 1.1 J | 0.71 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 1.1 J | | 1.2 J | 0.92 J | 1.3 J | 1.3 J | 1.2 J | 1.4 JT | 1.9 J | | 1.7 J | 0.89 J |
| Acenaphthene | 83-32-9 | ug/kg | 0.48 J | | 0.59 U | 0.55 U | 0.63 U | 0.63 U | 0.36 J | 0.45 JT | 0.74 J | | 1 J | 0.48 U |
| Acenaphthylene | 208-96-8 | ug/kg | 1.5 J | | 1.5 J | 1.4 J | 1.4 J | 1.6 J | 1.4 J | 1.6 JT | 2.8 J | | 2.3 J | 1 J |
| Anthracene | 120-12-7 | ug/kg | 1.6 J | | 1.4 U | 1.5 U | 1.5 U | 1.6 U | 1.3 J | 2.5 JT | 2.1 J | | 2.1 J | 0.96 U |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 5.1 | | 4.2 | 4.2 | 5.5 | 8 | 4.6 | 5.7 T | 6.9 | | 7.1 | 3.3 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 5.8 | | 5.1 | 4.6 | 5.7 | 8.5 | 9.6 | 6.9 T | 8.6 | | 8 | 3.2 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 7.9 | | 6.9 | 6.5 | 9.2 | 12 | 6.7 | 8.8 T | 12 | | 12 | 5.4 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 5.2 | | 4.5 | 4.3 | 5.6 | 7.2 | 4.6 | 6.3 T | 8.7 | | 7.7 | 3.5 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 5.7 | | 5.3 | 5.1 | 6 | 7.4 | 5.3 | 7.7 T | 11 | | 8.8 | 3.7 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 2.6 | | 2.1 J | 1.8 J | 2.7 | 3.4 | 2.2 J | 3.1 JT | 3.6 | | 3.9 | 1.5 J |
| Chrysene | 218-01-9 | ug/kg | 8.3 | | 6.2 | 6.1 | 8.1 | 11 | 7.6 | 9.1 T | 12 | | 10 | 4.7 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 0.84 J | | 0.78 J | 0.67 J | 0.89 J | 1.4 J | 0.93 J | 1.2 JT | 1.2 J | | 1.2 J | 0.56 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 0.37 J | | 0.32 U | 0.32 U | 0.32 U | 0.42 U | 0.3 J | 0.45 JT | 0.57 J | | 0.39 J | 0.31 U |
| Fluoranthene | 206-44-0 | ug/kg | 14 | | 11 | 10 | 13 | 14 | 12 | 16 T | 24 | | 21 | 8.6 |
| Fluorene | 86-73-7 | ug/kg | 0.88 J | | 0.98 J | 0.96 J | 1.2 J | 1.2 J | 0.8 J | 0.98 JT | 1.5 J | | 1.4 J | 0.77 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 4.3 | | 4.2 | 4.4 | 5.3 | 7.1 | 4.1 | 5.4 T | 7.8 | | 6.5 | 3 |
| Naphthalene | 91-20-3 | ug/kg | 5.1 | | 6 | 4.4 | 5.7 | 6.3 | 5.2 U | 6.7 T | 9.9 | | 8.1 | 4.6 |
| Perylene | 198-55-0 | ug/kg | 15 | | 18 | 12 | 19 | 12 | 8.9 | 9.9 T | 17 | | 15 | 7.1 |
| Phenanthrene | 85-01-8 | ug/kg | 6.8 | | 6.3 U | 6.4 U | 6.7 U | 6.9 U | 5.6 | 7.6 T | 11 | | 9 | 5.3 U |
| Pyrene | 129-00-0 | ug/kg | 15 | | 11 | 11 | 13 | 15 | 14 | 17 T | 24 | | 22 | 8.9 |
| High Molecular Weight PAH | HPAH | ug/kg | 70 JT | | 57 JT | 54 JT | 69 JT | 88 JT | 67 JT | 81 JT | 110 JT | | 100 JT | 43 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 17 JT | | 9.7 JT | 7.7 JT | 9.6 JT | 10 JT | 11 JT | 21 JT | 30 JT | | 26 JT | 7.3 JT |
| Total PAHs | 130498-29-2 | ug/kg | 87 JT | | 66 JT | 62 JT | 79 JT | 98 JT | 78 JT | 100 JT | 140 JT | | 130 JT | 50 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 13 J | | 4.1 | 3.6 | 4.9 | 6.9 | 11 | 11 T | 17 | | 16 | 2.9 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 1.6 J | | 0.21 U | 0.77 J | 0.21 U | 1.1 J | 0.96 J | 2.1 JT | 2.2 J | | 1.4 J | 1 J |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 10 | | 5.7 | 6.2 | 10 | 12 | 9.5 | 9.4 T | 18 | | 14 | 6.7 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 1.2 J | | 1.6 J | 1.4 J | 1.8 J | 1.6 J | 1.7 J | 1.7 JT | 2.3 J | | 2.1 J | 1.2 J |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 3.8 | | 5 | 5.8 | 5.9 | 6.6 | 5.9 | 4.9 T | 7.2 | | 5.1 | 3.4 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 6.9 | | 5.7 | 7.3 | 6.8 | 7.4 | 10 | 10 T | 17 | | 13 | 4.4 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 2.2 J | | 2.7 | 2.9 | 2.7 J | 3.3 | 2.7 | 3.2 T | 7.3 | | 4.2 | 2 J |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 9.1 | | 6.6 | 6.6 | 7.8 | 10 | 12 | 9.8 T | 14 | | 11 | 4.8 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 2.3 J | | 3.4 | 4.3 | 4.2 | 4.2 | 3 | 2.9 T | 5.6 | | 4.8 | 2 J |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 1.9 J | | 1.9 J | 1.9 J | 2.3 J | 2.2 J | 1.9 J | 1.9 JT | 3.2 | | 2.8 J | 1.8 J |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 12 | | 5.6 | 6 | 6.9 | 6.9 | 12 | 13 T | 24 | | 16 | 4.4 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 6.4 | | 6 | 5.8 | 5.3 | 6.5 | 6.8 | 7.4 T | 13 | | 12 | 4.9 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 3 | | 3.5 | 3.3 | 3.5 | 3.7 | 2.4 | 3.1 T | 6.4 | | 6.1 | 2.4 J |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 6.2 | | 5.7 | 4.9 | 0.61 U | 5.4 | 6.9 | 4.5 T | 10 | | 9.2 | 4.2 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 2.9 | | 5.2 | 5.3 | 4.3 | 4.4 | 4.7 | 5.2 T | 8.2 | | 6.2 | 2.4 J |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 1.5 J | | 1.7 J | 2 J | 2.2 J | 2.3 J | 1.4 J | 1.7 JT | 3.1 | | 2.3 J | 1.5 J |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 17 | | 6.6 | 7.1 | 6.8 | 8 | 15 | 16 T | 44 | | 24 | 5.4 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 4.9 T | 0.25 U | | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 2.5 | | 2.5 | 2.4 J | 2.8 | 2.3 J | 2.4 J | 2.4 JT | 4.2 | | 4 | 2 J |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 6.4 | | 5.1 | 5.2 | 5.1 | 5.5 | 5.4 | 6.5 T | 16 | | 9.3 | 5 |
| **PCB Congeners** | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB002 | 2051-61-8 | pg/g | 7.53 | | | 5.89 | 5.41 | | 7.53 | 6.4 T | 4.95 U | | | |
| PCB003 | 2051-62-9 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB004 & 010 | PCB004_010 | pg/g | 9.89 U | | | 9.89 U | 9.97 U | | 10 U | 9.84 UT | 9.89 U | | | |
| PCB005 & 008 | PCB005_008 | pg/g | 12.2 | | | 16.3 | 16 | | 10 U | 13.7 JT | 9.89 U | | | |
| PCB006 | 25569-80-6 | pg/g | 9.89 U | | | 9.89 U | 9.97 U | | 10 U | 9.84 UT | 9.89 U | | | |
| PCB007 & 009 | PCB007_009 | pg/g | 9.89 U | | | 9.89 U | 9.97 U | | 10 U | 9.84 UT | 9.89 U | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG02C | LW3-UG02C-R | LW3-UG02D | LW3-UG02E-1 | LW3-UG02E-2 | LW3-UG02F | LW3-UG03A-1 | LW3-UG03A-2 | LW3-UG03B | LW3-UG03B-R | LW3-UG03C | LW3-UG04A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 28 | 0 - 27 | 0 - 28 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 27 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 117 | | | 113 | 96.5 | | 135 | 135 T | 32.9 | | | |
| PCB012 & 013 | PCB012_013 | pg/g | 9.89 U | | | 9.89 U | 9.97 U | | 10 U | 9.84 UT | 9.89 U | | | |
| PCB014 | 34883-41-5 | pg/g | 9.89 U | | | 9.89 U | 9.97 U | | 10 U | 9.84 UT | 9.89 U | | | |
| PCB015 | 2050-68-2 | pg/g | 14.1 | | | 17.8 | 16.4 | | 16.3 | 16.2 T | 9.89 U | | | |
| PCB016 & 032 | PCB016_032 | pg/g | 13.2 | | | 16.1 | 21.5 | | 16.3 | 15.3 T | 6.76 | | | |
| PCB017 | 37680-66-3 | pg/g | 7.68 | | | 10.1 | 13.3 | | 10.4 | 11.1 JT | 4.95 U | | | |
| PCB018 | 37680-65-2 | pg/g | 19.1 | | | 24.8 | 33.1 | | 23.4 | 24.2 T | 7.86 | | | |
| PCB019 | 38444-73-4 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 17.5 | | | 21.9 | 28.9 | | 26.7 | 18.8 T | 7.66 | | | |
| PCB022 | 38444-85-8 | pg/g | 13.4 | | | 16.3 | 19.6 | | 22.9 | 15.6 T | 4.95 U | | | |
| PCB023 | 55720-44-0 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB024 & 027 | PCB024_027 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB025 | 55712-37-3 | pg/g | 4.96 | | | 5.29 | 6.65 | | 7.7 | 6.78 T | 4.95 U | | | |
| PCB026 | 38444-81-4 | pg/g | 8.18 | | | 9.73 | 11.5 | | 14.1 | 10.2 JT | 4.95 U | | | |
| PCB028 | 7012-37-5 | pg/g | 42.6 | | | 52.8 | 57.9 | | 48.9 | 46.8 T | 14 | | | |
| PCB029 | 15862-07-4 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB030 | 35693-92-6 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB031 | 16606-02-3 | pg/g | 37.1 | | | 43.5 | 50.8 | | 39.3 | 38.7 T | 12 | | | |
| PCB034 | 37680-68-5 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB035 | 37680-69-6 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB036 | 38444-87-0 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB037 | 38444-90-5 | pg/g | 16.2 | | | 21.9 | 21.2 | | 16.7 | 16.3 T | 6.34 | | | |
| PCB038 | 53555-66-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB039 | 38444-88-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB040 | 38444-93-8 | pg/g | 7.48 | | | 9.34 | 13.3 | | 10 | 9.7 T | 4.95 U | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 44.2 | | | 58.9 | 72.9 | | 32.7 | 34.9 T | 14.1 | | | |
| PCB042 & 059 | PCB042_059 | pg/g | 12.8 | | | 18.6 | 24.8 | | 16.3 | 15.2 T | 4.95 U | | | |
| PCB043 & 049 | PCB043_049 | pg/g | 41.6 | | | 59.7 | 63.9 | | 51.4 | 51 T | 10.8 | | | |
| PCB044 | 41464-39-5 | pg/g | 47 | | | 65.2 | 80.8 | | 61.8 | 53.8 T | 14.1 | | | |
| PCB045 | 70362-45-7 | pg/g | 5.3 | | | 6.99 | 12.6 | | 6.48 | 7.02 T | 4.95 U | | | |
| PCB046 | 41464-47-5 | pg/g | 4.95 U | | | 4.94 U | 5.71 | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB047 | 2437-79-8 | pg/g | 15 | | | 21 | 22.4 | | 18 UJ | 20.6 T | 4.95 U | | | |
| PCB048 & 075 | PCB048_075 | pg/g | 8.15 | | | 10.7 | 15 | | 10.4 | 7.29 T | 4.95 U | | | |
| PCB050 | 62796-65-0 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB051 | 68194-04-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB052 & 069 | PCB052_069 | pg/g | 60.8 | | | 85.1 | 89.8 | | 72.3 | 81.7 T | 17.6 | | | |
| PCB053 | 41464-41-9 | pg/g | 5.88 | | | 8.14 | 11.5 | | 8.23 | 8.76 T | 4.95 U | | | |
| PCB054 | 15968-05-5 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB055 | 74338-24-2 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB056 & 060 | PCB056_060 | pg/g | 32.6 | | | 41.5 | 38.6 | | 34.9 | 37.3 T | 9.03 | | | |
| PCB057 | 70424-67-8 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB058 | 41464-49-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB061 & 070 | PCB061_070 | pg/g | 74.3 | | | 97.8 | 92.5 | | 80 | 87.2 T | 20.8 | | | |
| PCB062 | 54230-22-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB063 | 74472-34-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB065 | 33284-54-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB066 & 076 | PCB066_076 | pg/g | 58.6 | | | 76.5 | 74.2 | | 65.5 | 73.6 T | 17.9 | | | |
| PCB067 | 73575-53-8 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB068 | 73575-52-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB073 | 74338-23-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB074 | 32690-93-0 | pg/g | 26.7 | | | 34.4 | 34.1 | | 29.1 | 31.4 T | 7.43 | | | |
| PCB077 | 32598-13-3 | pg/g | 9.23 | | | 11.5 | 10.4 | | 10.1 | 9 T | 3.34 U | | | |
| PCB078 | 70362-49-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB079 | 41464-48-6 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB080 | 33284-52-5 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB081 | 70362-50-4 | pg/g | 0.453 U | | | 0.631 U | 0.655 U | | 1.39 U | 0.973 UT | 0.577 U | | | |
| PCB082 | 52663-62-4 | pg/g | 11.8 | | | 14.8 | 12.9 | | 18.9 | 17.5 T | 4.95 U | | | |
| PCB083 | 60145-20-2 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB084 & 092 | PCB084_092 | pg/g | 40.3 | | | 54 | 48.8 | | 47 | 46.1 T | 12.7 UJ | | | |
| PCB085 & 116 | PCB085_116 | pg/g | 23.1 | | | 30.3 | 24.9 | | 21.9 | 20.2 T | 6.96 | | | |
| PCB086 | 55312-69-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 38.1 | | | 50.2 | 43.7 | | 39.6 | 37.3 T | 12.4 | | | |
| PCB088 & 091 | PCB088_091 | pg/g | 15.5 | | | 20.4 | 20.6 | | 15.4 | 17 T | 5.48 | | | |
| PCB089 | 73575-57-2 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB090 & 101 | PCB090_101 | pg/g | 107 | | | 144 | 127 | | 120 | 114 T | 36.7 | | | |
| PCB093 | 73575-56-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG02C | LW3-UG02C-R | LW3-UG02D | LW3-UG02E-1 | LW3-UG02E-2 | LW3-UG02F | LW3-UG03A-1 | LW3-UG03A-2 | LW3-UG03B | LW3-UG03B-R | LW3-UG03C | LW3-UG04A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 28 | 0 - 27 | 0 - 28 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 27 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 75.5 | | | 96.8 | 93.7 | | 83.2 | 78.2 T | 25.8 | | | |
| PCB096 | 73575-54-9 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB097 | 41464-51-1 | pg/g | 31.3 | | | 41.6 | 33.7 | | 36.1 | 32.6 T | 9.23 | | | |
| PCB099 | 38380-01-7 | pg/g | 53.6 | | | 71.5 | 64 | | 63.8 | 58.3 T | 18.1 | | | |
| PCB100 | 39485-83-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB103 | 60145-21-3 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB104 | 56558-16-8 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB105 | 32598-14-4 | pg/g | 42.5 | | | 52.4 | 46.4 | | 44.9 | 44.3 T | 13.2 | | | |
| PCB106 & 118 | PCB106_118 | pg/g | 113 | | | 144 | 126 | | 124 | 119 T | 35.9 | | | |
| PCB107 & 109 | PCB107_109 | pg/g | 9.46 | | | 11.3 | 9.92 | | 9.14 UJ | 10.2 T | 4.95 U | | | |
| PCB108 & 112 | PCB108_112 | pg/g | 5.4 | | | 6.52 | 5.98 | | 5.64 | 4.92 UT | 4.95 U | | | |
| PCB110 | 38380-03-9 | pg/g | 142 | | | 188 | 163 | | 154 | 145 T | 46.4 | | | |
| PCB111 & 115 | PCB111_115 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB113 | 68194-10-5 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB114 | 74472-37-0 | pg/g | 2.54 J | | | 2.88 J | 2.74 J | | 2.91 J | 2.26 JT | 1.13 U | | | |
| PCB119 | 56558-17-9 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB120 | 68194-12-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB121 | 56558-18-0 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB122 | 76842-07-4 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB123 | 65510-44-3 | pg/g | 2.8 J | | | 3.22 J | 3.38 J | | 3.21 U | 2.71 JT | 1.3 J | | | |
| PCB124 | 70424-70-3 | pg/g | 4.95 U | | | 5.61 | 5 | | 5.88 | 6.21 T | 4.95 U | | | |
| PCB126 | 57465-28-8 | pg/g | 1.3 J | | | 1.85 J | 1.54 J | | 1.35 U | 6.47 JT | 0.976 U | | | |
| PCB127 | 39635-33-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB128 & 162 | PCB128_162 | pg/g | 22.7 | | | 29.8 | 26.3 | | 24.5 | 25.8 T | 7.33 | | | |
| PCB129 | 55215-18-4 | pg/g | 5.55 | | | 6.76 | 6.49 | | 6.61 | 5.81 T | 4.95 U | | | |
| PCB130 | 52663-66-8 | pg/g | 13.8 | | | 15.6 | 15.7 | | 9.03 UJ | 9.2 T | 4.95 U | | | |
| PCB131 | 61798-70-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB132 & 161 | PCB132_161 | pg/g | 31.4 | | | 42.7 | 39 | | 38.4 | 36.9 T | 10.9 | | | |
| PCB133 & 142 | PCB133_142 | pg/g | 4.95 U | | | 5.32 | 4.98 U | | 5.65 | 5.01 T | 4.95 U | | | |
| PCB134 & 143 | PCB134_143 | pg/g | 4.98 | | | 8.02 | 7.23 | | 8.84 | 7.46 T | 4.95 U | | | |
| PCB135 | 52744-13-5 | pg/g | 16.8 | | | 21.6 | 19 | | 20.3 | 16.9 T | 5.77 | | | |
| PCB136 | 38411-22-2 | pg/g | 13.5 | | | 18.4 | 15.4 | | 17.4 | 14.8 JT | 4.95 U | | | |
| PCB137 | 35694-06-5 | pg/g | 6.21 | | | 8.4 | 6.97 | | 7.98 | 7.81 T | 4.95 U | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 143 | | | 191 | 172 | | 153 | 148 T | 47.2 | | | |
| PCB139 & 149 | PCB139_149 | pg/g | 107 | | | 144 | 129 | | 105 | 92.3 T | 34.6 | | | |
| PCB140 | 59291-64-4 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB141 | 52712-04-6 | pg/g | 21.9 | | | 27.6 | 25 | | 32.8 | 29.4 T | 7.41 | | | |
| PCB144 | 68194-14-9 | pg/g | 5.67 | | | 6.91 | 5.95 | | 6.29 | 5.71 T | 4.95 U | | | |
| PCB145 | 74472-40-5 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB146 & 165 | PCB146_165 | pg/g | 21.7 | | | 27.3 | 25.5 | | 24.9 | 24.8 T | 7.38 | | | |
| PCB147 | 68194-13-8 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB148 | 74472-41-6 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB150 | 68194-08-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB151 | 52663-63-5 | pg/g | 29 | | | 37 | 34.4 | | 35.5 | 29.5 T | 10.3 | | | |
| PCB152 | 68194-09-2 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB153 | 35065-27-1 | pg/g | 128 | | | 168 | 155 | | 166 | 162 T | 42.5 | | | |
| PCB154 | 60145-22-4 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB155 | 33979-03-2 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB156 | 38380-08-4 | pg/g | 12.8 | | | 16.7 | 15 | | 15.3 | 15.2 T | 4.41 J | | | |
| PCB157 | 69782-90-7 | pg/g | 3.52 J | | | 4.18 J | 4.16 J | | 3.82 J | 4.37 JT | 1.29 J | | | |
| PCB158 & 160 | PCB158_160 | pg/g | 14.2 | | | 19.2 | 17.5 | | 16.6 | 15.3 T | 5.25 | | | |
| PCB159 | 39635-35-3 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB166 | 41411-63-6 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB167 | 52663-72-6 | pg/g | 6.35 | | | 8.77 | 7.7 | | 6.57 | 7.08 T | 2.05 J | | | |
| PCB168 | 59291-65-5 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB169 | 32774-16-6 | pg/g | 0.448 U | | | 0.576 U | 0.679 U | | 1.91 U | 1.22 UT | 0.58 U | | | |
| PCB170 | 35065-30-6 | pg/g | 34.8 | | | 43.1 | 38.1 | | 42.8 | 43.4 T | 11.2 | | | |
| PCB171 | 52663-71-5 | pg/g | 8.16 | | | 10.2 | 9.96 | | 11.9 | 11.4 T | 4.95 U | | | |
| PCB172 | 52663-74-8 | pg/g | 6.14 | | | 7.66 | 7.27 | | 8.38 | 7.96 T | 4.95 U | | | |
| PCB173 | 68194-16-1 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB174 | 38411-25-5 | pg/g | 40 | | | 50.3 | 46 | | 49.1 | 45.4 T | 13.1 | | | |
| PCB175 | 40186-70-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB176 | 52663-65-7 | pg/g | 5.11 | | | 6.53 | 5.68 | | 5.42 | 4.92 UT | 4.95 U | | | |
| PCB177 | 52663-70-4 | pg/g | 22.2 | | | 27.7 | 24.4 | | 33.5 | 31.8 T | 6.86 | | | |
| PCB178 | 52663-67-9 | pg/g | 9.8 | | | 12.3 | 12.2 | | 11.9 | 10.7 T | 4.95 U | | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG02C | LW3-UG02C-R | LW3-UG02D | LW3-UG02E-1 | LW3-UG02E-2 | LW3-UG02F | LW3-UG03A-1 | LW3-UG03A-2 | LW3-UG03B | LW3-UG03B-R | LW3-UG03C | LW3-UG04A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 28 | 0 - 27 | 0 - 28 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 27 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 17 | | | 23.1 | 20.1 | | 25.2 | 20.5 T | 5.65 | | | |
| PCB180 | 35065-29-3 | pg/g | 82.7 | | | 102 | 97.7 | | 102 | 102 T | 26.7 | | | |
| PCB181 | 74472-47-2 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 59.4 | | | 74.7 | 71 | | 70.3 | 64.3 T | 20.4 | | | |
| PCB183 | 52663-69-1 | pg/g | 21.9 | | | 26.5 | 24.6 | | 27 | 25.3 T | 7.64 | | | |
| PCB184 | 74472-48-3 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB185 | 52712-05-7 | pg/g | 4.95 U | | | 5.12 | 4.98 U | | 7.29 | 5.53 T | 4.95 U | | | |
| PCB186 | 74472-49-4 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB188 | 74487-85-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB189 | 39635-31-9 | pg/g | 1.58 J | | | 1.95 J | 1.59 J | | 1.52 U | 1.93 JT | 0.457 J | | | |
| PCB190 | 41411-64-7 | pg/g | 7.94 | | | 10.2 | 9.45 | | 9.85 | 10.7 T | 4.95 U | | | |
| PCB191 | 74472-50-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB192 | 74472-51-8 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB193 | 69782-91-8 | pg/g | 4.92 J | | | 6.17 | 5.54 | | 5.77 | 5.83 T | 4.95 U | | | |
| PCB194 | 35694-08-7 | pg/g | 21.2 | | | 25.3 | 23.7 | | 24.7 | 25.1 T | 6.55 | | | |
| PCB195 | 52663-78-2 | pg/g | 8.56 | | | 9.58 | 9.33 | | 9.12 | 10.7 T | 4.95 U | | | |
| PCB196 & 203 | PCB196_203 | pg/g | 30.8 | | | 38.4 | 36.2 | | 26.4 | 24.3 JT | 11 | | | |
| PCB197 | 33091-17-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB198 | 68194-17-2 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB199 | 52663-75-9 | pg/g | 31.5 | | | 42.1 | 37.6 | | 27.1 | 26.9 T | 10.6 | | | |
| PCB200 | 52663-73-7 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB201 | 40186-71-8 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB202 | 2136-99-4 | pg/g | 6.62 UJ | | | 7.76 | 7.27 | | 6.82 | 7.07 T | 4.95 U | | | |
| PCB204 | 74472-52-9 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB205 | 74472-53-0 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB206 | 40186-72-9 | pg/g | 17.1 | | | 20.6 | 18 | | 16.5 | 18.1 T | 4.95 U | | | |
| PCB207 | 52663-79-3 | pg/g | 4.95 U | | | 4.94 U | 4.98 U | | 5.03 U | 4.92 UT | 4.95 U | | | |
| PCB208 | 52663-77-1 | pg/g | 5.99 | | | 7.46 | 6.23 | | 5.24 | 5.78 T | 4.95 U | | | |
| PCB209 | 2051-24-3 | pg/g | 25.2 | | | 38.2 | 32 | | 24.3 | 23.5 T | 7.32 | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | 2570 JT | | | 3320 JT | 3170 JT | | 2900 JT | 2850 JT | 725 JT | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 0.136 JT | | | 0.193 JT | 0.161 JT | | 0.00694 JT | 0.654 JT | 0.00176 JT | | | |
| **PCB Homologs** | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 7.53 T | | | 5.89 T | 5.41 T | | 7.53 T | 6.4 T | 4.95 UT | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 143 T | | | 147 T | 129 T | | 151 T | 165 JT | 32.9 T | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 180 T | | | 222 T | 264 T | | 226 T | 204 JT | 54.6 T | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 450 T | | | 605 T | 663 T | | 489 T | 528 T | 112 T | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 715 JT | | | 939 JT | 833 JT | | 783 JT | 757 JT | 211 JT | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 608 JT | | | 807 JT | 727 JT | | 695 JT | 663 JT | 186 JT | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 322 JT | | | 408 JT | 374 JT | | 410 T | 387 JT | 92 JT | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 92.1 T | | | 123 T | 114 T | | 94.1 T | 94.1 JT | 28.2 T | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 23.1 T | | | 28.1 T | 24.2 T | | 21.7 T | 23.9 T | 4.95 UT | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.16 U | | 0.16 U | 1.3 U | 1.4 U | 1.7 U | 0.16 U | 0.17 UT | 0.75 U | | 0.26 U | 2.5 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.071 U | | 0.046 U | 0.05 U | 0.17 U | 0.064 U | 0.15 U | 0.071 UT | 0.16 U | | 0.14 U | 0.046 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.2 J | | 0.15 U | 0.066 U | 0.23 U | 0.07 U | 0.19 U | 0.19 JT | 0.24 J | | 0.36 | 0.061 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.33 | | 0.32 | 0.59 | 0.57 J | 0.71 J | 0.4 | 0.33 T | 0.5 | | 0.43 | 0.3 J |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.78 | | 0.79 | 1.2 | 1.2 | 1.1 | 0.78 | 0.72 T | 1.3 J | | 1 | 0.57 |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.65 J | | 0.18 U | 0.46 U | 0.49 U | 0.49 U | 0.47 U | 0.89 JT | 0.22 U | | 0.24 U | 0.28 U |
| Aldrin | 309-00-2 | ug/kg | 0.24 | | 0.28 U | 0.34 U | 0.44 U | 0.39 U | 0.21 U | 0.14 UT | 0.55 | | 0.41 | 0.28 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.1 U | | 0.16 J | 0.32 NJ | 0.35 NJ | 0.29 J | 0.11 J | 0.15 JT | 0.39 NJ | | 0.13 U | 0.22 NJ |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | | 0.097 U | 0.11 U | 0.11 U | 0.12 U | 0.097 U | 0.098 UT | 0.12 U | | 0.12 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | | 0.031 U | 0.034 U | 0.033 U | 0.036 U | 0.031 U | 0.032 UT | 0.037 U | | 0.036 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.18 J | | 0.14 U | 0.16 U | 0.15 U | 0.16 U | 0.14 U | 0.15 UT | 0.35 | | 0.16 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.082 J | | 0.031 U | 0.094 U | 0.098 U | 0.081 U | 0.044 U | 0.054 UT | 0.13 J | | 0.09 J | 0.037 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.13 U | | 0.12 U | 0.095 U | 0.14 U | 0.12 U | 0.21 U | 0.14 UT | 0.14 U | | 0.22 U | 0.087 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | | 0.11 U | 0.12 U | 0.12 U | 0.13 U | 0.11 U | 0.12 UT | 0.14 U | | 0.13 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.14 U | | 0.17 U | 0.033 U | 0.22 U | 0.035 U | 0.092 NJ | 0.12 JT | 0.23 J | | 0.035 U | 0.2 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.2 U | | 0.2 U | 0.29 U | 0.32 U | 0.35 U | 0.19 U | 0.21 UT | 0.24 U | | 0.23 U | 0.2 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | | 0.16 U | 0.077 U | 0.13 U | 0.081 U | 0.071 U | 0.072 UT | 0.085 U | | 0.081 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | | 0.096 U | 0.16 U | 0.24 U | 0.23 U | 0.042 UJ | 0.045 JT | 0.051 U | | 0.048 U | 0.042 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.089 J | | 0.08 U | 0.068 U | 0.067 U | 0.07 U | 0.061 U | 0.056 UT | 0.11 J | | 0.12 J | 0.067 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | | 0.2 U | 0.22 U | 0.066 U | 0.071 U | 0.062 U | 0.063 UT | 0.24 U | | 0.23 U | 0.062 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | | 0.2 U | 0.083 U | 0.081 U | 0.087 U | 0.076 U | 0.077 UT | 0.091 U | | 0.23 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.068 U | | 0.2 U | 0.22 U | 0.22 U | 0.23 U | 0.19 U | 0.073 UT | 0.24 U | | 0.23 U | 0.2 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.2 U | | 0.2 U | 0.41 U | 0.43 U | 0.086 U | 0.19 U | 0.19 UT | 0.47 U | | 0.23 U | 0.19 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG02C | LW3-UG02C-R | LW3-UG02D | LW3-UG02E-1 | LW3-UG02E-2 | LW3-UG02F | LW3-UG03A-1 | LW3-UG03A-2 | LW3-UG03B | LW3-UG03B-R | LW3-UG03C | LW3-UG04A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 28 | 0 - 27 | 0 - 28 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 27 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | | 0.12 U | 0.13 U | 0.13 U | 0.14 U | 0.12 U | 0.13 UT | 0.15 U | | 0.14 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.21 U | | 0.29 U | 0.41 U | 0.065 U | 0.83 U | 0.35 U | 0.098 UT | 0.4 U | | 0.24 U | 0.29 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.41 JT | | 0.22 JT | 0.53 JT | 0.57 JT | 0.49 JT | 0.21 JT | 0.18 JT | 0.3 JT | | 0.56 JT | 0.29 UT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.2 UT | | 0.16 JT | 0.32 JT | 0.35 JT | 0.29 JT | 0.11 JT | 0.15 JT | 0.39 JT | | 0.23 UT | 0.22 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.33 T | | 0.32 T | 0.59 T | 0.57 JT | 0.71 JT | 0.4 T | 0.33 T | 0.5 T | | 0.43 T | 0.3 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 2 JT | | 1.1 T | 1.8 T | 1.8 JT | 1.8 JT | 1.2 T | 2.1 JT | 2 JT | | 1.8 T | 0.87 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.78 T | | 0.79 T | 1.2 T | 1.2 T | 1.1 T | 0.78 T | 0.72 T | 1.3 JT | | 1 T | 0.57 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.85 JT | | 0.18 UT | 0.46 UT | 0.49 UT | 0.49 UT | 0.47 UT | 1.1 JT | 0.24 JT | | 0.36 T | 0.28 UT |
| Toxaphene | 8001-35-2 | ug/kg | 6.8 U | | 11 U | 15 U | 12 U | 18 U | 9.5 U | 7.9 UT | 17 U | | 12 U | 10 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.24 NJ | | 0.22 J | 0.39 NJ | 0.4 NJ | 0.37 NJ | 0.21 NJ | 0.18 JT | 0.24 U | | 0.35 J | 0.094 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.09 J | | 0.082 U | 0.14 J | 0.17 J | 0.12 J | 0.077 U | 0.08 UT | 0.17 J | | 0.12 J | 0.069 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 30 J | | 40 J | 61 J | 58 J | 69 J | 28 J | 30.3 JT | 56 J | | 45 J | 41 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 23 J | | 30 J | 36 J | 35 J | 38 J | 19 J | 20.8 JT | 40 J | | 38 J | 20 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 220 J | | 220 J | 390 J | 370 J | 420 J | 180 J | 193 JT | 390 J | | 310 J | 220 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 89 J | | 100 J | 140 J | 140 J | 150 J | 79 J | 89.8 JT | 150 J | | 150 J | 80 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 250 JA | | 260 JA | 451 JA | 428 JA | 489 JA | 208 JA | 223 JA | 446 JA | | 355 JA | 261 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 112 JA | | 130 JA | 176 JA | 175 JA | 188 JA | 98 JA | 111 JA | 190 JA | | 188 JA | 100 JA |
| **Phenols** | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.4 U | | 0.39 U | 0.45 U | 0.44 U | 0.47 U | 0.54 U | 0.39 UT | 0.5 U | | 0.48 U | 0.4 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.33 U | | 0.32 U | 0.36 U | 0.36 U | 0.38 U | 0.33 U | 0.32 UT | 0.41 U | | 0.39 U | 0.33 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.1 U | | 1.1 U | 1.2 U | 1.2 U | 1.3 U | 1.1 U | 1.1 UT | 1.4 U | | 1.7 U | 1.1 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.21 U | | 0.21 UJ | 0.24 UJ | 0.23 UJ | 0.25 UJ | 0.21 U | 0.21 UT | 0.27 U | | 0.25 U | 0.21 UJ |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 2 U | | 1 U | 1.1 U | 1.1 U | 1.2 U | 1 U | 1 UT | 2.4 U | | 1.2 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 11 U | | 5.5 UJ | 6 UJ | 5.9 UJ | 6.3 UJ | R | R | 13 U | | 6.2 U | 5.5 UJ |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 34 U | | 17 U | 19 U | 18 U | 20 U | 17 U | 17 UT | 40 U | | 20 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 4 U | | 2 U | 2.2 U | 2.2 U | 2.3 U | 2 U | 2 UT | 4.7 U | | 2.3 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 3 U | | 1.5 U | 1.7 U | 1.6 U | 1.8 U | 1.5 U | 1.5 UT | 3.6 U | | 2.4 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 3 U | | 1.5 U | 1.7 U | 1.6 U | 1.8 U | 1.5 U | 1.5 UT | 3.6 U | | 1.7 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 2.8 U | | 1.4 U | 1.6 U | 1.5 U | 1.6 U | 1.4 U | 1.4 UT | 3.3 U | | 1.6 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 2.8 U | | 1.4 U | 1.6 U | 1.5 U | 1.6 U | 1.4 U | 1.4 UT | 3.3 U | | 1.6 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 6.3 J | | 6.1 J | 9 J | 9.6 J | 11 J | 5.9 J | 6.1 JT | 19 J | | 10 J | 8.4 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 36 U | | 18 U | 20 U | 20 U | 21 U | 18 U | 18 UT | 43 U | | 21 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.31 U | | 0.3 U | 0.34 U | 0.34 U | 0.36 U | 0.31 U | 0.3 UT | 0.61 U | | 0.37 U | 0.31 U |
| Phenol | 108-95-2 | ug/kg | 18 U | | 3.8 J | 2.2 U | 4.6 J | 5 J | 16 U | 13 UT | 19 U | | 24 U | 3.6 J |
| **Phthalates** | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 77 | | 60 | 68 | 75 | 88 | 94 | 110 JT | 200 | | 180 | 55 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 6.4 U | | 3.2 U | 3.5 U | 3.4 U | 3.7 U | 3.2 U | 7.2 JT | 7.5 U | | 8.8 J | 8 J |
| Dibutyl phthalate | 84-74-2 | ug/kg | 21 | | 17 | 17 | 13 | 22 | 15 | 18 T | 21 J | | 25 | 18 |
| Diethyl phthalate | 84-66-2 | ug/kg | 5.1 U | | 2.8 J | 3.9 J | 3.3 J | 5 J | 3.2 J | 3.9 JT | 6.4 U | | 5.3 U | 3.8 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 2 U | | 1 U | 1.1 U | 1.1 U | 1.2 U | 1 U | 1 UT | 4.7 J | | 1.2 J | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 3.4 U | | 1.7 U | 1.9 U | 1.8 U | 2 U | 1.7 U | 1.7 UT | 4 U | | 2 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 5.2 U | | 2.6 U | 2.9 U | 2.8 U | 3 U | 2.6 U | 2.6 UT | 6.1 U | | 3 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 5.8 U | | 2.9 U | 3.2 U | 3.1 U | 3.4 U | 2.9 U | 2.9 UT | 6.8 U | | 3.3 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 6 U | | 3 U | 3.3 U | 3.2 U | 3.5 U | 3 U | 3 UT | 7.1 U | | 3.4 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 5.8 U | | 2.9 U | 3.2 U | 3.1 U | 3.4 U | 2.9 U | 2.9 UT | 6.8 U | | 3.3 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 3 U | | 1.5 U | 1.7 U | 1.6 U | 1.8 U | 1.5 U | 1.5 UT | 3.6 U | | 1.7 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 4 U | | 2 U | 2.2 U | 2.2 U | 2.3 U | 2 U | 2 UT | 4.7 U | | 2.3 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 3.2 U | | 1.6 U | 1.8 U | 1.7 U | 1.9 U | 1.6 U | 1.6 UT | 3.8 U | | 1.9 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 6.4 U | | 3.2 U | 3.5 U | 3.4 U | 3.7 U | 3.2 U | 3.2 UT | 7.5 U | | 3.7 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 7.4 U | | 3.7 U | 4.1 U | 4 U | 4.3 U | 3.7 U | 3.7 UT | 8.7 U | | 4.2 U | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 5 U | | 2.5 U | 2.8 U | 2.7 U | 2.9 U | 2.5 U | 2.5 UT | 5.9 U | | 2.9 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 3.2 U | | 1.6 U | 1.8 U | 1.7 U | 1.9 U | 1.6 U | 1.6 UT | 3.8 U | | 1.9 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 3.8 U | | 1.9 U | 2.1 U | 2.1 U | 2.2 U | 1.9 U | 1.9 UT | 4.5 U | | 2.2 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 2.8 U | | 1.4 U | 1.6 U | 1.5 U | 1.6 U | 1.4 U | 1.4 UT | 3.3 U | | 1.6 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 3.6 U | | 1.8 U | 2 U | 2 U | 2.1 U | 1.8 U | 1.8 UT | 4.3 U | | 2.1 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 3 U | | 1.5 U | 12 J | 1.6 U | 1.8 U | 1.5 U | 1.5 UT | 3.6 U | | 1.7 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 2.2 U | | 1.1 U | 1.2 U | 1.2 U | 1.3 U | 1.1 U | 1.2 JT | 2.6 U | | 1.3 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 200 U | | 96 U | 120 J | 110 U | 140 J | 160 J | 140 JT | 230 U | | 170 J | 100 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 13 J | | 6.2 J | 6.8 J | 6.5 J | 9.2 J | 14 | 13 T | 15 J | | 13 | 6.3 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 3 U | | 1.5 U | 1.7 U | 1.6 U | 1.8 U | 1.5 U | 1.5 UT | 3.6 U | | 1.7 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 3.8 U | | 1.9 U | 2.1 U | 2.1 U | 2.2 U | 1.9 U | 1.9 UT | 4.5 U | | 2.2 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 5.2 U | | 2.6 U | 2.9 U | 2.8 U | 3 U | 2.6 U | 2.6 UT | 6.1 U | | 3 U | 2.6 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG02C | LW3-UG02C-R | LW3-UG02D | LW3-UG02E-1 | LW3-UG02E-2 | LW3-UG02F | LW3-UG03A-1 | LW3-UG03A-2 | LW3-UG03B | LW3-UG03B-R | LW3-UG03C | LW3-UG04A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 29 | 0 - 29 | 0 - 30 | 0 - 28 | 0 - 27 | 0 - 28 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 26 | 0 - 27 | 0 - 26 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 2.6 U | | 1.3 U | 1.5 U | 1.8 J | 1.5 U | 1.3 U | 1.4 JT | 3.1 U | | 1.7 J | 1.3 U |
| Dibenzofuran | 132-64-9 | ug/kg | 0.67 J | | 0.84 J | 0.62 J | 0.92 J | 0.87 J | 0.75 J | 0.76 JT | 1.5 J | | 1.3 J | 0.67 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.19 J | | 0.15 J | 0.22 U | 0.22 U | 0.44 J | 0.26 J | 0.31 JT | 0.24 U | | 0.23 U | 0.2 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 5 U | | 0.14 U | 0.49 U | 0.15 U | 0.16 U | 0.14 U | 0.15 UT | 0.17 U | | 0.16 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 58 U | | 29 U | 32 U | 31 U | 34 U | 29 U | 29 UT | 68 U | | 33 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | | 0.16 U | 0.18 U | 0.17 U | 0.19 U | 0.16 U | 0.17 UT | 0.2 U | | 0.19 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 2 U | | 1 U | 1.1 U | 1.1 U | 1.2 U | 1 U | 1 UT | 2.4 U | | 1.2 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 4.4 U | | 2.2 U | 2.4 U | 2.4 U | 2.6 U | 2.2 U | 2.2 UT | 5.2 U | | 2.5 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 13 U | | 6.1 U | 6.7 U | 6.5 U | 7 U | 6.1 U | 6.6 JT | 15 U | | 6.9 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 3.2 U | | 1.6 U | 1.8 U | 1.7 U | 1.9 U | 1.6 U | 1.6 UT | 3.8 U | | 1.9 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 4.8 U | | 2.4 U | 2.7 U | 2.6 U | 2.8 U | 2.4 U | 2.4 UT | 5.7 U | | 2.8 U | 2.4 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG04B | LW3-UG04C | LW3-UG06A | LW3-UG06B | LW3-UG06B-R | LW3-UG06C | LW3-UG11A | LW3-UG11B | LW3-UG11C | LW3-UG12A | LW3-UG12B | LW3-UG12B-R | LW3-UG12C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 25 | 0 - 26 | 0 - 29 | 0 - 26 | 0 - 26 | 0 - 28 | 0 - 25 | 0 - 26 | 0 - 24 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.4 U | | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.4 U | | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.4 U | | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.4 U | | 1.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.8 U | | 1.4 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 1.3 J | 1.5 J | 1.3 U | 1.3 U | | 1.3 U | 1.3 U | 2.4 J | 2.5 | 1.6 U | 1.4 U | | 1.3 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 1.8 J | 1.7 J | 1.7 U | 1.3 U | | 1.3 U | 1.7 J | 1.4 NJ | 1.3 NJ | 1.7 U | 1.4 U | | 1.4 U |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.3 U | 2.1 U | 1.3 U | | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.4 U | | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.5 U | 1.4 U | | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 3.1 JT | 3.2 JT | 2.1 UT | 1.3 UT | | 1.3 UT | 1.7 JT | 3.8 JT | 3.8 JT | 1.7 UT | 1.8 UT | | 1.4 UT |
| **Conventionals** | | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | | | 96.8 | 45.3 | | 32.9 | | | | 49.9 J | 54.3 J | | 45.3 J |
| Specific Gravity | SPEC_GRAV | NA | 1.56 | 1.49 | 0.87 | 0.88 | | 0.885 T | 1.48 | 1.58 | 1.5 | 1.41 | 1.4 | | 1.54 |
| Sulfide | 18496-25-8 | mg/kg | | | 0.5 U | 3.2 | | 0.5 U | | | | 9.2 | 6 | | 1.3 |
| Total organic carbon | TOC | percent | 1.01 | 0.84 | 1.16 | 1.34 | | 1.22 | 1.11 | 0.59 | 1.03 | 1.69 | 1.46 | | 1.13 |
| Total solids | TSO | percent | 57 | 56.1 | 52.9 | 51.2 | | 52.3 | 57.9 | 63.5 | 59.5 | 45.1 | 48 | | 53.3 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.853 | | 0.309 J | | 0.513 J | | | 0.392 J | | 0.724 J | | 0.0403 J | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 1.1 J | | 0.029 J | | 0.49 J | | | 0.328 J | | 0.635 J | | 0.00988 U | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 6.02 | | 0.995 J | | 4.16 | | | 2.76 | | 3.44 J | | 0.0866 J | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 24.6 | | 5.82 | | 21.6 | | | 16.8 | | 21.1 | | 1.89 J | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 114 | | 26.5 | | 96.1 | | | 85.1 | | 105 | | 9.65 | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 0.769 | | 0.128 J | | 0.433 J | | | 0.586 | | 0.873 | | 0.00701 U | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 1.7 J | | 0.362 J | | 0.875 J | | | 1.15 J | | 0.943 J | | 0.00909 U | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 2.33 J | | 0.537 J | | 1.78 J | | | 3.07 | | 2.91 J | | 0.11 J | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 6.98 | | 2.1 J | | 4.59 | | | 5.45 | | 6.14 | | 0.949 J | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 9.99 | | 2.32 J | | 5.56 J | | | 7.07 | | 7.4 | | 2.02 J | |
| Total PCDD/F | TOTPCDD_F | pg/g | 168 JT | | 39.1 JT | | 136 JT | | | 123 JT | | 149 JT | | 14.7 JT | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.056 U | | 0.00521 U | | 0.0457 U | | | 0.0045 U | | 0.0116 U | | 0.00573 U | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.116 U | | 0.0168 U | | 0.0892 U | | | 0.105 J | | 0.0655 U | | 0.00988 U | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.166 J | | 0.0321 U | | 0.152 J | | | 0.117 J | | 0.098 U | | 0.0189 U | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 0.755 J | | 0.18 J | | 0.674 J | | | 0.507 J | | 0.562 J | | 0.0404 U | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 0.525 J | | 0.12 J | | 0.412 J | | | 0.299 J | | 0.314 J | | 0.0182 U | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 12.6 | | 3.05 J | | 11.4 | | | 9.2 | | 10.3 | | 0.985 J | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.153 J | | 0.0349 U | | 0.0457 U | | | 0.062 U | | 0.0484 U | | 0.0482 U | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.00882 U | | 0.0153 U | | 0.0184 U | | | 0.0451 J | | 0.0295 U | | 0.00799 U | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.00959 U | | 0.0176 U | | 0.0189 U | | | 0.0615 J | | 0.238 U | | 0.00909 U | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 0.24 J | | 0.0216 U | | 0.161 J | | | 0.185 J | | 0.176 J | | 0.00976 U | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.119 J | | 0.0299 U | | 0.0863 J | | | 0.104 J | | 0.0955 U | | 0.0102 U | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0135 U | | 0.0372 U | | 0.0408 U | | | 0.0139 U | | 0.0262 U | | 0.0124 U | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.166 U | | 0.0303 U | | 0.161 J | | | 0.145 J | | 0.176 J | | 0.0118 U | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 2.09 J | | 0.585 J | | 1.48 J | | | 1.54 J | | 1.68 J | | 0.262 J | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.117 U | | 0.0714 U | | 0.101 J | | | 0.1 J | | 0.144 J | | 0.0259 U | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 0.38 JT | | 0.075 JT | | 0.325 JT | | | 0.397 JT | | 0.278 JT | | 0.016 JT | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.459 JT | | 0.0801 JT | 0.00608 JA | 0.325 JA | | | 0.399 JT | | 0.465 JT | 0.154 JA | 0.016 JA | |
| **Grain Size** | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.04 | 0.21 | 0.03 | 0.08 | | 0.02 | 0 | 0.04 | 0.7 | 0 | 0.02 | | 0.03 |
| Fine gravel | GS_FG | percent | 0.22 | 0.41 | 0.55 | 0.67 | | 0.58 | 0.18 | 0.13 | 0.82 | 0.54 | 0.2 | | 0.17 |
| Very coarse sand | GS_VCS | percent | 0.75 | 0.27 | 0.48 | 0.58 | | 0.51 | 0.28 | 0.25 | 1.25 | 0.62 | 0.49 | | 0.55 |
| Coarse sand | GS_CS | percent | 1.02 | 0.41 | 0.57 | 0.56 | | 0.48 | 0.51 | 1.05 | 1.97 | 0.52 | 0.54 | | 0.79 |
| Medium sand | GS_MS | percent | 6.23 | 7 | 4.35 | 3.57 | | 8.29 | 3.58 | 22.6 | 25.2 | 0.9 | 1.36 | | 4.36 |
| Fine sand | GS_FS | percent | 39.8 | 37 | 33 | 26.4 | | 31 | 18.3 | 42.9 | 58.7 | 10.8 | 17.8 | | 38.6 |
| Very fine sand | GS_VFS | percent | 25.4 | 23.9 | 23.9 | 23 | | 16 | 42 | 16.9 | 18.8 | 21.7 | 23.5 | | 20.7 |
| Fines | GS_FINES | percent | 28.6 T | 32.5 T | 40.7 T | 46.9 T | | 45.8 T | 32.5 T | 18.7 T | 15.4 T | 67 T | 56.8 T | | 36.1 T |
| Coarse silt | GS_CSILT | percent | 11.6 | 14.7 | 17 | 20 | | 25.2 | 18.9 | 8.68 | 5.52 | 40.7 | 30 | | 5.84 |
| Medium silt | GS_MSILT | percent | 6.98 | 7.39 | 8.84 | 10.9 | | 8.9 | 4.92 | 3.44 | 3.24 | 11 | 10.6 | | 10.6 |
| Fine silt | GS_FSILT | percent | 3.43 | 3.62 | 5.38 | 5.98 | | 5.21 | 2.48 | 1.9 | 1.84 | 6.09 | 5.85 | | 7.97 |
| Very fine silt | GS_VFSILT | percent | 2.9 | 2.91 | 3.22 | 3.87 | | 2.47 | 2.1 | 1.95 | 2.16 | 3.1 | 3.77 | | 5.31 |
| 8-9 Phi clay | GS_CCLAY | percent | 1.86 | 1.77 | 2.33 | 2.36 | | 1.52 | 1.88 | 1.29 | 1.31 | 1.98 | 2.22 | | 2.54 |
| >9 Phi clay | GS_MFCLAY | percent | 1.82 | 2.14 | 3.92 | 3.82 | | 2.45 | 2.24 | 1.41 | 1.3 | 4.17 | 4.35 | | 3.83 |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG04B | LW3-UG04C | LW3-UG06A | LW3-UG06B | LW3-UG06B-R | LW3-UG06C | LW3-UG11A | LW3-UG11B | LW3-UG11C | LW3-UG12A | LW3-UG12B | LW3-UG12B-R | LW3-UG12C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 25 | 0 - 26 | 0 - 29 | 0 - 26 | 0 - 26 | 0 - 28 | 0 - 25 | 0 - 26 | 0 - 24 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 27300 | 30200 | 29200 | 27700 | | 23000 | 24700 | 21500 | 23200 | 33500 | 30200 | | 22400 |
| Antimony | 7440-36-0 | mg/kg | 0.65 J | 0.67 J | 0.09 J | 0.08 J | | 0.09 J | 0.71 J | 0.56 J | 0.69 J | 0.1 J | 0.11 J | | 0.09 J |
| Arsenic | 7440-38-2 | mg/kg | 2.58 | 2.48 | 2.95 | 2.57 | | 2.26 | 2.41 | 2.31 | 2.33 | 3.52 | 3.22 | | 2.45 |
| Cadmium | 7440-43-9 | mg/kg | 0.108 | 0.103 | 0.124 J | 0.127 J | | 0.126 J | 0.097 | 0.083 | 0.126 | 0.18 | 0.141 | | 0.123 |
| Chromium | 7440-47-3 | mg/kg | 21.7 J | 23.2 J | 25.4 | 25.7 | | 22.9 | 21.9 J | 17.9 J | 19.2 J | 28.8 | 24.5 | | 20.4 |
| Copper | 7440-50-8 | mg/kg | 24.6 | 24.2 | 30.5 | 29.2 | | 27.4 | 23 | 18.4 | 20.1 | 38 J | 33.7 J | | 27.8 J |
| Lead | 7439-92-1 | mg/kg | 8.5 | 6.6 | 7.3 | 7.2 | | 6.9 | 6.6 | 5.8 | 8.2 | 8.69 J | 7.65 J | | 6.68 J |
| Mercury | 7439-97-6 | mg/kg | 0.028 | 0.039 | 0.032 | 0.034 | | 0.034 | 0.038 | 0.019 | 0.042 | 0.047 | 0.04 | | 0.032 |
| Nickel | 7440-02-0 | mg/kg | 20.6 | 21.1 | 23 | 22.5 | | 20.7 | 19.9 | 17.7 | 18.9 | 26.9 J | 24.3 J | | 22 J |
| Silver | 7440-22-4 | mg/kg | 0.17 | 0.18 | 0.12 | 0.12 | | 0.11 | 0.18 | 0.16 | 0.19 | 0.137 | 0.121 | | 0.099 |
| Zinc | 7440-66-6 | mg/kg | 82.8 | 84.6 | 88.9 | 83 | | 77.8 | 67.3 | 68.8 | 95.2 | 101 | 94.8 | | 80.2 |
| **PAHs** | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 0.43 J | 0.55 J | 0.67 J | 0.65 J | | 0.61 J | 0.41 J | 0.31 U | 0.55 J | 0.99 J | 0.96 J | | 0.74 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 0.57 J | 0.76 J | 0.92 J | 0.96 J | | 0.9 J | 0.73 J | 0.48 J | 0.81 J | 1.5 J | 1.3 J | | 1.1 J |
| Acenaphthene | 83-32-9 | ug/kg | 0.97 U | 0.38 U | 0.36 J | 0.54 J | | 0.3 J | 0.32 U | 0.23 U | 0.48 U | 0.55 J | 0.49 J | | 0.66 J |
| Acenaphthylene | 208-96-8 | ug/kg | 0.95 J | 0.69 J | 1.1 J | 1.6 J | | 0.94 J | 0.72 J | 0.27 J | 0.53 J | 1.5 J | 1.5 J | | 1 J |
| Anthracene | 120-12-7 | ug/kg | 4.2 | 0.82 U | 1.1 J | 1.6 J | | 0.65 J | 0.96 U | 0.6 U | 1.2 U | 1.6 J | 1.2 J | | 3.2 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 51 | 4 | 4.2 | 8.1 | | 3.8 | 5.5 | 2.8 | 4.8 | 6.6 | 5.7 | | 32 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 53 | 4 | 4.2 | 8.1 | | 3.7 | 5.4 | 3 | 6.5 | 7.1 | 6.3 | | 27 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 72 | 5.8 | 5.7 | 9.9 | | 5.4 | 8.8 | 4.5 | 11 | 10 | 10 | | 40 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 38 | 3.6 | 3.7 | 6.1 | | 3.7 | 5.3 | 2.9 | 7.8 | 6.1 | 6.3 | | 21 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 32 | 3.9 | 4.1 | 6 | | 3.6 | 7.4 | 3.6 | 9.6 | 6.2 | 5.6 | | 15 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 23 | 1.7 J | 1.7 J | 3.2 | | 2 J | 2.9 | 1.3 J | 3 | 3 | 2.8 | | 14 |
| Chrysene | 218-01-9 | ug/kg | 58 | 4.7 | 5.7 | 11 | | 5.9 | 6.8 | 4 | 9.1 | 8.9 | 10 | | 45 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 8 | 0.66 J | 0.65 J | 0.99 J | | 0.55 J | 0.99 J | 0.47 J | 1.4 J | 1 J | 0.95 J | | 4.1 |
| Dibenzothiophene | 132-65-0 | ug/kg | 0.32 U | 0.21 U | 0.25 J | 0.37 J | | 0.21 U | 0.21 U | 0.21 U | 0.48 U | 0.28 J | 0.26 J | | 0.54 J |
| Fluoranthene | 206-44-0 | ug/kg | 60 | 8.4 | 9.6 | 20 | | 8.9 | 10 | 6.5 | 14 | 14 | 15 | | 39 |
| Fluorene | 86-73-7 | ug/kg | 0.87 J | 0.56 J | 0.6 J | 1 J | | 0.68 J | 0.5 U | 0.5 U | 0.61 J | 1.1 J | 1 J | | 1.2 J |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 34 | 3.2 | 3.1 | 5.8 | | 2.9 | 5.2 | 3 | 7.1 | 5 | 4.7 | | 16 |
| Naphthalene | 91-20-3 | ug/kg | 1.8 U | 3 | 4.5 | 4.8 | | 3.8 | 1.7 U | 1.3 U | 1.9 U | 5.8 U | 5.5 U | | 3.9 U |
| Perylene | 198-55-0 | ug/kg | 15 | 15 | 8.6 | 12 | | 13 | 7.9 | 2 J | 7.5 | 30 | 26 | | 24 |
| Phenanthrene | 85-01-8 | ug/kg | 13 U | 3.6 U | 4.9 | 11 | | 3.7 | 4.3 U | 2.7 U | 7 U | 5.9 | 6 | | 10 |
| Pyrene | 129-00-0 | ug/kg | 59 | 8 | 9.7 | 19 | | 8.5 | 10 | 5.9 U | 15 | 16 | 18 | | 35 |
| High Molecular Weight PAH | HPAH | ug/kg | 450 T | 44 JT | 49 JT | 92 JT | | 45 JT | 63 JT | 29 JT | 82 JT | 78 JT | 79 JT | | 270 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 6.6 JT | 5 JT | 13 JT | 22 JT | | 11 JT | 1.5 JT | 0.75 JT | 2 JT | 12 JT | 11 JT | | 17 JT |
| Total PAHs | 130498-29-2 | ug/kg | 460 JT | 49 JT | 62 JT | 110 JT | | 56 JT | 64 JT | 30 JT | 83 JT | 90 JT | 91 JT | | 280 JT |
| C1-Chrysene | C1_218-01-9 | ug/kg | 28 | 3.4 | 14 | 16 | | 9 | 8.4 | 3.3 | 15 J | 25 | 25 | | 27 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 0.21 U | 0.21 U | 1 J | 0.93 J | | 0.78 J | 0.21 U | 0.21 U | 0.21 U | 1.8 J | 1.1 J | | 1.7 J |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 35 | 6.4 | 9 | 12 | | 11 | 6.2 | 4.4 | 9.9 | 15 | 13 | | 29 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 0.83 J | 0.79 J | 1.1 J | 1.7 J | | 0.91 J | 0.58 J | 0.5 U | 1.2 J | 1.7 J | 1.8 J | | 2.7 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 9 | 3.3 | 4.4 | 7.5 | | 3.1 | 3.1 | 1.7 J | 6 | 5.8 | 6 | | 7.2 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 9.7 | 3.6 | 7.7 | 7.5 | | 4.9 | 5.4 | 4.3 | 14 | 7.6 | 9.1 | | 12 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 0.21 U | 0.21 U | 2.1 J | 1.8 J | | 1.6 J | 1.3 J | 0.21 U | 6.9 | 2.7 J | 3.1 | | 2 J |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 16 | 3.9 | 8.8 | 11 | | 10 | 6.1 | 2.6 | 9.3 | 19 | 15 | | 17 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 1.5 J | 1.8 J | 1.9 J | 2.1 J | | 2.3 J | 2.1 J | 1.2 J | 3.4 | 2.5 J | 3.2 | | 3.3 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 1.3 J | 1.3 J | 1.8 J | 2 J | | 1.3 J | 1.1 J | 0.86 J | 1.7 J | 4.1 | 3.9 | | 1.9 J |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 5.6 | 3.4 | 12 | 13 | | 11 | 3.6 | 1.8 J | 10 | 14 | 12 | | 13 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 4 | 4.7 | 7 | 6 | | 4.5 | 6.6 | 4.5 | 17 | 7 | 7.2 | | 4.8 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 0.21 U | 1.4 J | 2.2 J | 1.9 J | | 1.7 J | 2 J | 0.21 U | 6.5 | 3.2 | 2.1 J | | 2.2 J |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 5 | 3.8 | 6 | 5.8 | | 4 | 5 | 2.1 J | 6.8 | 6.3 | 7.1 | | 6.4 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 1.8 J | 3.1 | 3.8 | 0.5 U | | 2.6 | 0.5 U | 0.5 U | 4 | 4.8 | 4.1 | | 3.9 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 0.64 J | 1 J | 1.5 J | 1.7 J | | 1.1 J | 0.67 J | 0.55 J | 1.2 J | 1.9 J | 1.7 J | | 1.2 J |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 4 | 3.4 | 15 | 15 | | 3.8 | 4 | 2.5 J | 10 | 17 | 7.3 | | 5.3 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 0.25 U | | 0.25 U | 0.25 U | 0.25 U | 9.1 | 4.3 | 4.4 | | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 0.37 U | 1.7 J | 2.2 J | 3 | | 1.7 J | 1.2 J | 0.37 U | 2 J | 2.6 J | 2.4 J | | 2.9 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 2 J | 3 | 5.6 | 5.2 | | 0.75 U | 3.2 | 0.75 U | 9.3 | 6.5 | 6.6 | | 3.6 |
| **PCB Congeners** | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB002 | 2051-61-8 | pg/g | 4.83 U | | 6.4 | 9.46 | | | | 4.74 U | | 13.3 | 10.3 | | |
| PCB003 | 2051-62-9 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB004 & 010 | PCB004_010 | pg/g | 9.66 U | | 10.1 U | 9.97 U | | | | 9.48 U | | 10 U | 9.81 U | | |
| PCB005 & 008 | PCB005_008 | pg/g | 11.1 | | 10.1 U | 12.2 | | | | 9.48 U | | 10 U | 13.6 | | |
| PCB006 | 25569-80-6 | pg/g | 9.66 U | | 10.1 U | 9.97 U | | | | 9.48 U | | 10 U | 9.81 U | | |
| PCB007 & 009 | PCB007_009 | pg/g | 9.66 U | | 10.1 U | 9.97 U | | | | 9.48 U | | 10 U | 9.81 U | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG04B | LW3-UG04C | LW3-UG06A | LW3-UG06B | LW3-UG06B-R | LW3-UG06C | LW3-UG11A | LW3-UG11B | LW3-UG11C | LW3-UG12A | LW3-UG12B | LW3-UG12B-R | LW3-UG12C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 25 | 0 - 26 | 0 - 29 | 0 - 26 | 0 - 26 | 0 - 28 | 0 - 25 | 0 - 26 | 0 - 24 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 53.1 | | 100 | 115 | | | | 36.8 | | 162 | 108 | | |
| PCB012 & 013 | PCB012_013 | pg/g | 9.66 U | | 10.1 U | 9.97 U | | | | 9.48 U | | 10 U | 9.81 U | | |
| PCB014 | 34883-41-5 | pg/g | 9.66 U | | 10.1 U | 9.97 U | | | | 9.48 U | | 10 U | 9.81 U | | |
| PCB015 | 2050-68-2 | pg/g | 10.6 | | 10.1 U | 14.1 | | | | 9.48 U | | 23.2 UJ | 15.3 | | |
| PCB016 & 032 | PCB016_032 | pg/g | 18.1 | | 13.3 | 12.5 | | | | 6.43 | | 17.6 | 13.6 | | |
| PCB017 | 37680-66-3 | pg/g | 12.2 | | 9.66 UJ | 8.01 | | | | 4.74 U | | 14.1 | 9.29 | | |
| PCB018 | 37680-65-2 | pg/g | 27.6 | | 19.1 | 18.5 | | | | 8.56 | | 28.8 | 22.2 | | |
| PCB019 | 38444-73-4 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 28.1 | | 14.4 | 16.9 | | | | 7.37 | | 23.4 | 20 | | |
| PCB022 | 38444-85-8 | pg/g | 18.5 | | 10.6 | 10.7 | | | | 5.08 | | 20 | 13.4 | | |
| PCB023 | 55720-44-0 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB024 & 027 | PCB024_027 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB025 | 55712-37-3 | pg/g | 5.7 UJ | | 6.47 | 5.28 | | | | 4.74 U | | 7.19 | 5.41 | | |
| PCB026 | 38444-81-4 | pg/g | 10 | | 9.63 | 7.55 | | | | 4.74 U | | 11.9 | 8.44 | | |
| PCB028 | 7012-37-5 | pg/g | 49.3 | | 38 | 38.2 | | | | 14.9 | | 56.9 | 44.8 | | |
| PCB029 | 15862-07-4 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB030 | 35693-92-6 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB031 | 16606-02-3 | pg/g | 48.3 | | 33.9 | 32.4 | | | | 12.5 | | 47.8 | 39.7 | | |
| PCB034 | 37680-68-5 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB035 | 37680-69-6 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB036 | 38444-87-0 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB037 | 38444-90-5 | pg/g | 13.9 | | 12.4 | 15.2 | | | | 6.09 | | 22.1 | 16.8 | | |
| PCB038 | 53555-66-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB039 | 38444-88-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB040 | 38444-93-8 | pg/g | 7.62 | | 5.45 UJ | 6.4 | | | | 4.74 U | | 9.14 | 8.28 | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 48.3 | | 24.6 | 44.7 | | | | 16.5 | | 35.7 | 49.3 | | |
| PCB042 & 059 | PCB042_059 | pg/g | 14.6 | | 11.1 | 13.8 | | | | 4.93 | | 17.3 | 14.8 | | |
| PCB043 & 049 | PCB043_049 | pg/g | 38.9 | | 45.9 | 41.1 | | | | 13.5 | | 57.7 | 50.1 | | |
| PCB044 | 41464-39-5 | pg/g | 44.6 | | 41.6 | 46.9 | | | | 17.2 | | 60.7 | 53.1 | | |
| PCB045 | 70362-45-7 | pg/g | 6.76 | | 6.02 | 5.21 | | | | 4.74 U | | 7.47 | 5.15 | | |
| PCB046 | 41464-47-5 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB047 | 2437-79-8 | pg/g | 14.5 | | 19.5 UJ | 16.4 | | | | 4.97 | | 24.2 | 18.8 | | |
| PCB048 & 075 | PCB048_075 | pg/g | 9.46 | | 6.2 | 7.5 | | | | 4.74 U | | 11.1 | 8.09 | | |
| PCB050 | 62796-65-0 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB051 | 68194-04-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB052 & 069 | PCB052_069 | pg/g | 50.8 | | 65.3 | 61.8 | | | | 22.1 | | 77.3 | 65.2 | | |
| PCB053 | 41464-41-9 | pg/g | 7.06 | | 7.32 | 6.21 | | | | 4.74 U | | 9.3 | 6.53 | | |
| PCB054 | 15968-05-5 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB055 | 74338-24-2 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB056 & 060 | PCB056_060 | pg/g | 20.1 | | 25.1 | 30 | | | | 10.1 | | 48 | 33.7 | | |
| PCB057 | 70424-67-8 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB058 | 41464-49-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB061 & 070 | PCB061_070 | pg/g | 46.3 | | 63.5 | 69.7 | | | | 23.8 | | 105 | 83 | | |
| PCB062 | 54230-22-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB063 | 74472-34-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB065 | 33284-54-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB066 & 076 | PCB066_076 | pg/g | 36.1 | | 52.4 | 53.6 | | | | 16.5 | | 91.4 | 64 | | |
| PCB067 | 73575-53-8 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB068 | 73575-52-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB073 | 74338-23-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB074 | 32690-93-0 | pg/g | 17.1 | | 21.4 | 23.9 | | | | 8.17 | | 41 | 28.3 | | |
| PCB077 | 32598-13-3 | pg/g | 5.04 U | | 7.52 | 8.21 | | | | 3.59 U | | 11.3 | 8.76 | | |
| PCB078 | 70362-49-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB079 | 41464-48-6 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB080 | 33284-52-5 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB081 | 70362-50-4 | pg/g | 0.509 U | | 1.5 U | 0.379 U | | | | 0.619 U | | 2.14 U | 0.501 J | | |
| PCB082 | 52663-62-4 | pg/g | 6.86 | | 13 UJ | 10.5 | | | | 4.74 U | | 18 | 11.3 | | |
| PCB083 | 60145-20-2 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB084 & 092 | PCB084_092 | pg/g | 25.1 | | 32.8 | 39.5 | | | | 15.6 | | 45.9 | 40.9 | | |
| PCB085 & 116 | PCB085_116 | pg/g | 13.5 | | 17.6 | 22 | | | | 7.8 | | 23.7 | 24 | | |
| PCB086 | 55312-69-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 21.9 | | 27.9 | 38.3 | | | | 14.8 | | 37.2 | 39.4 | | |
| PCB088 & 091 | PCB088_091 | pg/g | 9.81 | | 12.1 | 14.5 | | | | 5.37 | | 16.3 | 16.1 | | |
| PCB089 | 73575-57-2 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB090 & 101 | PCB090_101 | pg/g | 70.2 | | 80.7 | 106 | | | | 41.4 | | 125 | 120 | | |
| PCB093 | 73575-56-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG04B | LW3-UG04C | LW3-UG06A | LW3-UG06B | LW3-UG06B-R | LW3-UG06C | LW3-UG11A | LW3-UG11B | LW3-UG11C | LW3-UG12A | LW3-UG12B | LW3-UG12B-R | LW3-UG12C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 25 | 0 - 26 | 0 - 29 | 0 - 26 | 0 - 26 | 0 - 28 | 0 - 25 | 0 - 26 | 0 - 24 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 49.6 | | 57.4 | 73.6 | | | | 30 | | 80.4 | 78.5 | | |
| PCB096 | 73575-54-9 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB097 | 41464-51-1 | pg/g | 17 | | 24.4 | 30.4 | | | | 11.8 | | 35 | 32.8 | | |
| PCB099 | 38380-01-7 | pg/g | 32.4 | | 44.8 | 50.1 | | | | 18.7 | | 68.5 | 59.1 | | |
| PCB100 | 39485-83-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB103 | 60145-21-3 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB104 | 56558-16-8 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB105 | 32598-14-4 | pg/g | 23.8 | | 34.9 | 40.9 | | | | 17.5 | | 54.2 | 43.7 | | |
| PCB106 & 118 | PCB106_118 | pg/g | 62.8 | | 87.4 | 106 | | | | 43.4 | | 139 | 123 | | |
| PCB107 & 109 | PCB107_109 | pg/g | 5.14 | | 9.58 | 7.71 | | | | 4.74 U | | 12.3 | 9.52 | | |
| PCB108 & 112 | PCB108_112 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.32 | 5.25 | | |
| PCB110 | 38380-03-9 | pg/g | 86.2 | | 107 | 137 | | | | 57.2 | | 136 | 153 | | |
| PCB111 & 115 | PCB111_115 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB113 | 68194-10-5 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB114 | 74472-37-0 | pg/g | 1.57 J | | 2.29 J | 2.19 J | | | | 1.61 U | | 3.34 J | 2.11 J | | |
| PCB119 | 56558-17-9 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB120 | 68194-12-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB121 | 56558-18-0 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB122 | 76842-07-4 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB123 | 65510-44-3 | pg/g | 1.43 J | | 3.63 U | 2.66 J | | | | 1.02 J | | 3.36 J | 3.1 J | | |
| PCB124 | 70424-70-3 | pg/g | 4.83 U | | 5.31 | 4.99 U | | | | 4.74 U | | 6.66 | 4.9 U | | |
| PCB126 | 57465-28-8 | pg/g | 0.757 J | | 1.67 U | 1.68 U | | | | 0.617 U | | 1.79 J | 1.47 J | | |
| PCB127 | 39635-33-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB128 & 162 | PCB128_162 | pg/g | 14.6 | | 20 | 21.3 | | | | 10.4 | | 31.5 | 26.3 | | |
| PCB129 | 55215-18-4 | pg/g | 4.83 U | | 5.04 U | 5.34 | | | | 4.74 U | | 5.88 | 5.97 | | |
| PCB130 | 52663-66-8 | pg/g | 9.7 | | 5.75 UJ | 13.6 | | | | 4.9 | | 9.03 | 15.1 | | |
| PCB131 | 61798-70-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB132 & 161 | PCB132_161 | pg/g | 23.5 | | 25.8 | 33.2 | | | | 14.8 | | 40.6 | 36.2 | | |
| PCB133 & 142 | PCB133_142 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.2 UJ | 4.9 U | | |
| PCB134 & 143 | PCB134_143 | pg/g | 4.83 U | | 5.04 U | 5.36 | | | | 4.74 U | | 6.42 UJ | 5.89 | | |
| PCB135 | 52744-13-5 | pg/g | 13 | | 12.6 UJ | 14.3 | | | | 7.49 | | 18.9 | 19.3 | | |
| PCB136 | 38411-22-2 | pg/g | 12.7 | | 11 | 12.6 | | | | 6.14 | | 14.7 | 14.6 | | |
| PCB137 | 35694-06-5 | pg/g | 4.83 U | | 5.85 | 6.65 | | | | 4.74 U | | 7.96 | 7.14 | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 106 | | 111 | 145 | | | | 69 | | 184 | 175 | | |
| PCB139 & 149 | PCB139_149 | pg/g | 85.4 | | 68.6 | 103 | | | | 51.4 | | 108 | 125 | | |
| PCB140 | 59291-64-4 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB141 | 52712-04-6 | pg/g | 16.8 | | 21 | 21.6 | | | | 11.7 | | 35.2 | 26.6 | | |
| PCB144 | 68194-14-9 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 6.07 | 6.18 | | |
| PCB145 | 74472-40-5 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB146 & 165 | PCB146_165 | pg/g | 17.4 | | 18.4 | 20.5 | | | | 9.84 | | 28.4 | 24.5 | | |
| PCB147 | 68194-13-8 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB148 | 74472-41-6 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB150 | 68194-08-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB151 | 52663-63-5 | pg/g | 27.1 | | 21 | 28.6 | | | | 14 | | 35.8 | 34.9 | | |
| PCB152 | 68194-09-2 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB153 | 35065-27-1 | pg/g | 102 | | 120 | 128 | | | | 64.2 | | 205 | 162 | | |
| PCB154 | 60145-22-4 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB155 | 33979-03-2 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB156 | 38380-08-4 | pg/g | 8.1 | | 11.4 | 13.2 | | | | 5.71 | | 19 | 14.6 | | |
| PCB157 | 69782-90-7 | pg/g | 2.57 J | | 2.95 J | 3.29 J | | | | 1.7 J | | 5.15 | 3.37 J | | |
| PCB158 & 160 | PCB158_160 | pg/g | 10.2 | | 11.5 | 15.1 | | | | 7.55 | | 17.2 | 18 | | |
| PCB159 | 39635-35-3 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB166 | 41411-63-6 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB167 | 52663-72-6 | pg/g | 4.22 J | | 5.08 | 5.78 | | | | 3.16 J | | 9.2 | 6.82 | | |
| PCB168 | 59291-65-5 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB169 | 32774-16-6 | pg/g | 0.697 U | | 1.73 U | 0.837 U | | | | 0.509 U | | 2.17 U | 0.458 U | | |
| PCB170 | 35065-30-6 | pg/g | 25.3 | | 30.9 | 32.7 | | | | 17.9 | | 53.8 | 42.7 | | |
| PCB171 | 52663-71-5 | pg/g | 5.9 | | 7.34 UJ | 8.26 | | | | 4.74 U | | 12.4 | 11 | | |
| PCB172 | 52663-74-8 | pg/g | 4.83 U | | 5.04 U | 6.77 | | | | 4.74 U | | 10.1 | 7.3 | | |
| PCB173 | 68194-16-1 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB174 | 38411-25-5 | pg/g | 31 | | 25.4 | 38.4 | | | | 22.1 | | 55.9 | 51.3 | | |
| PCB175 | 40186-70-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB176 | 52663-65-7 | pg/g | 4.83 U | | 5.04 U | 5.25 | | | | 4.74 U | | 5.71 | 6.15 | | |
| PCB177 | 52663-70-4 | pg/g | 17.6 | | 23.7 | 20 | | | | 12.1 | | 38.5 | 27.5 | | |
| PCB178 | 52663-67-9 | pg/g | 7.93 | | 7.61 | 8.53 | | | | 5.71 | | 5.01 U | 12.3 | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG04B | LW3-UG04C | LW3-UG06A | LW3-UG06B | LW3-UG06B-R | LW3-UG06C | LW3-UG11A | LW3-UG11B | LW3-UG11C | LW3-UG12A | LW3-UG12B | LW3-UG12B-R | LW3-UG12C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 25 | 0 - 26 | 0 - 29 | 0 - 26 | 0 - 26 | 0 - 28 | 0 - 25 | 0 - 26 | 0 - 24 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 14.1 | | 16.6 | 17.7 | | | | 10.4 | | 28 | 22.2 | | |
| PCB180 | 35065-29-3 | pg/g | 61.4 | | 77 | 80.7 | | | | 49.1 | | 127 | 107 | | |
| PCB181 | 74472-47-2 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB182 & 187 | PCB182_187 | pg/g | 45.5 | | 49.2 | 59 | | | | 32.9 | | 80.2 | 75 | | |
| PCB183 | 52663-69-1 | pg/g | 16 | | 19.1 | 20.7 | | | | 13.1 | | 30.7 | 26.2 | | |
| PCB184 | 74472-48-3 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB185 | 52712-05-7 | pg/g | 4.83 U | | 5.15 | 4.99 U | | | | 4.74 U | | 6.99 | 5.6 | | |
| PCB186 | 74472-49-4 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB188 | 74487-85-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB189 | 39635-31-9 | pg/g | 0.58 U | | 0.607 U | 1.43 J | | | | 0.693 J | | 2.57 J | 1.98 J | | |
| PCB190 | 41411-64-7 | pg/g | 5.65 | | 6.96 | 7.33 | | | | 4.74 U | | 13.6 | 9.51 | | |
| PCB191 | 74472-50-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB192 | 74472-51-8 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB193 | 69782-91-8 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 7.4 | 5.98 | | |
| PCB194 | 35694-08-7 | pg/g | 13.7 | | 20.2 | 20.8 | | | | 13 | | 30 | 27.2 | | |
| PCB195 | 52663-78-2 | pg/g | 4.98 | | 7.69 | 7.49 | | | | 4.74 | | 14.7 UJ | 10.5 | | |
| PCB196 & 203 | PCB196_203 | pg/g | 19.6 | | 17 | 30.3 | | | | 18.6 | | 28.4 | 40 | | |
| PCB197 | 33091-17-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB198 | 68194-17-2 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB199 | 52663-75-9 | pg/g | 20.2 | | 20.2 | 31.6 | | | | 18.4 | | 30.2 | 40.5 | | |
| PCB200 | 52663-73-7 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB201 | 40186-71-8 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB202 | 2136-99-4 | pg/g | 4.83 U | | 5.04 U | 6.12 | | | | 4.74 U | | 8.07 | 7.67 | | |
| PCB204 | 74472-52-9 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB205 | 74472-53-0 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB206 | 40186-72-9 | pg/g | 10.1 | | 13.3 | 15.1 | | | | 9.13 | | 19 | 19.4 | | |
| PCB207 | 52663-79-3 | pg/g | 4.83 U | | 5.04 U | 4.99 U | | | | 4.74 U | | 5.01 U | 4.9 U | | |
| PCB208 | 52663-77-1 | pg/g | 4.83 U | | 5.04 U | 6.15 | | | | 4.74 U | | 7.13 | 7.08 | | |
| PCB209 | 2051-24-3 | pg/g | 16.5 | | 21.2 | 27.7 | | | | 9.08 | | 38 | 32.7 | | |
| Total PCB Congeners | 1336-36-3 | pg/g | 1860 JT | | 2000 JT | 2480 JT | | | | 1020 JT | | 3260 JT | 2930 JT | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 0.0788 JT | | 0.00507 JT | 0.00608 JT | | | | 0.0022 JT | | 0.187 JT | 0.154 JT | | |
| **PCB Homologs** | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 4.83 UT | | 6.4 T | 9.46 T | | | | 4.74 UT | | 13.3 T | 10.3 T | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 74.8 T | | 100 T | 141 T | | | | 36.8 T | | 162 T | 137 T | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 226 T | | 158 T | 165 T | | | | 60.9 T | | 250 T | 194 T | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 362 T | | 378 T | 435 T | | | | 138 T | | 607 T | 498 JT | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 428 JT | | 544 JT | 681 JT | | | | 265 JT | | 812 JT | 763 JT | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 453 JT | | 454 JT | 596 JT | | | | 282 JT | | 782 T | 727 JT | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 230 T | | 262 T | 307 JT | | | | 164 JT | | 473 JT | 412 JT | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 58.5 T | | 65.1 T | 96.3 T | | | | 54.7 T | | 96.7 T | 126 T | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 10.1 T | | 13.3 T | 21.3 T | | | | 9.13 T | | 26.1 T | 26.5 T | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 1.2 U | 0.16 U | 1.4 U | 0.58 U | 0.16 U | 0.16 U | 0.2 U | 0.16 U | 0.18 U | 0.17 U | 0.16 U | | |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.065 U | 0.046 U | 0.086 U | 0.075 U | 0.13 U | 0.061 J | 0.046 U | 0.046 U | 0.27 U | 0.21 U | 0.17 U | | |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.2 U | 0.24 NJ | 0.13 U | 0.22 U | 0.2 U | 0.061 U | 0.18 U | 0.24 U | 0.17 J | 0.11 NJ | 0.2 U | | |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.38 | 0.22 | 0.86 J | 0.41 | 1.2 NJ | 0.28 | 0.21 | 0.3 NJ | 1.4 J | 0.62 | 0.83 J | | |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.82 | 0.48 | 1.2 | 0.93 | 1.4 J | 0.5 | 0.35 | 0.7 | 2.1 J | 1.2 J | 1.2 J | | |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.24 U | 0.65 J | 0.35 U | 0.36 U | 0.18 U | 0.18 U | 0.24 U | 0.46 U | 2.8 | 0.53 J | 0.23 U | | |
| Aldrin | 309-00-2 | ug/kg | 0.26 U | 0.2 U | 0.28 U | 0.25 U | 0.21 U | 0.12 U | 0.12 U | 0.12 U | 0.14 U | 0.13 U | 0.2 U | | |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.16 J | 0.074 U | 0.29 J | 0.2 U | 0.079 J | 0.12 J | 0.27 J | 1.3 | 0.12 J | 0.11 J | 0.1 J | | |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.21 U | 0.31 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.11 U | 0.11 U | 0.097 U | | |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.14 U | 0.067 U | 0.073 U | 0.031 U | 0.055 U | 0.075 J | 0.055 U | 0.2 U | 0.035 U | 0.053 U | 0.031 U | | |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.14 U | 0.16 U | 0.21 U | 0.14 U | 0.14 U | 0.14 U | 0.22 U | 0.16 U | 0.15 U | 0.14 U | | |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.031 U | 0.043 U | 0.055 U | 0.062 U | 0.037 U | 0.15 J | 0.26 | 0.035 U | 0.055 U | 0.031 U | | |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.16 U | 0.087 U | 0.087 U | 0.087 U | 0.09 U | 0.087 U | 0.096 U | 0.19 U | 0.23 U | 0.09 U | 0.087 U | | |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.11 U | 0.11 U | 0.14 U | 0.11 U | 0.11 U | 0.12 U | 0.58 U | 0.13 U | 0.12 U | 0.11 U | | |
| Dieldrin | 60-57-1 | ug/kg | 0.15 U | 0.11 U | 0.13 U | 0.19 U | 0.11 U | 0.2 J | 0.32 | 0.39 | 0.12 J | 0.09 U | 0.19 U | | |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.2 U | 0.2 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.058 U | 0.21 U | 0.23 U | 0.21 U | 0.2 U | | |
| Endrin | 72-20-8 | ug/kg | 0.2 U | 0.12 U | 0.13 U | 0.078 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.079 U | 0.074 U | 0.071 U | | |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.2 U | 0.096 U | 0.15 U | 0.051 U | 0.2 U | 0.086 U | 0.054 U | 0.056 U | 0.047 UJ | 0.044 UJ | 0.042 UJ | | |
| Endrin ketone | 53494-70-5 | ug/kg | 0.055 U | 0.11 U | 0.091 J | 0.079 U | 0.071 U | 0.2 U | 0.042 U | 0.029 U | 0.079 U | 0.078 U | 0.2 U | | |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 0.062 U | 0.25 U | 0.24 U | 0.2 U | 0.062 U | 0.062 U | 0.062 U | 0.069 U | 0.065 U | 0.32 NJ | | |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.084 U | 0.079 U | 0.5 NJ | | |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.2 U | 0.068 U | 0.26 U | 0.2 U | 0.2 U | 0.2 U | 0.068 U | 0.2 U | 0.23 U | 0.21 U | 0.068 U | | |
| Methoxychlor | 72-43-5 | ug/kg | 0.075 U | 0.21 U | 0.33 U | 0.36 U | 0.075 U | 0.075 U | 0.14 U | 0.075 U | 0.083 U | 0.37 U | 0.075 U | | |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG04B | LW3-UG04C | LW3-UG06A | LW3-UG06B | LW3-UG06B-R | LW3-UG06C | LW3-UG11A | LW3-UG11B | LW3-UG11C | LW3-UG12A | LW3-UG12B | LW3-UG12B-R | LW3-UG12C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 25 | 0 - 26 | 0 - 29 | 0 - 26 | 0 - 26 | 0 - 28 | 0 - 25 | 0 - 26 | 0 - 24 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.12 U | | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.14 U | 0.13 U | | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.3 U | 0.43 U | 0.56 U | 0.2 U | | 0.17 U | 0.85 U | 0.07 U | 0.061 U | 0.58 U | 0.46 U | | 1.5 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.23 JT | 0.11 JT | 0.27 T | 0.36 JT | | 0.17 UT | 0.3 JT | 0.74 JT | 0.59 JT | 0.21 JT | 0.24 JT | | 1.5 UT |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.16 JT | 0.2 UT | 0.29 JT | 0.2 UT | | 0.079 JT | 0.2 JT | 0.27 JT | 1.3 T | 0.12 JT | 0.11 JT | | 0.1 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.38 T | 0.22 T | 0.86 JT | 0.41 T | | 1.2 JT | 0.28 T | 0.21 T | 0.3 JT | 1.4 JT | 0.62 T | | 0.83 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 1.2 T | 1.6 JT | 2.1 JT | 1.3 T | | 2.6 JT | 0.84 JT | 0.56 T | 1 JT | 6.5 JT | 2.5 JT | | 2 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.82 T | 0.48 T | 1.2 T | 0.93 T | | 1.4 JT | 0.56 JT | 0.35 T | 0.7 T | 2.1 JT | 1.2 JT | | 1.2 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.24 UT | 0.89 JT | 0.35 UT | 0.36 UT | | 0.2 UT | 0.18 UT | 0.24 UT | 0.46 UT | 3 JT | 0.64 JT | | 0.23 UT |
| Toxaphene | 8001-35-2 | ug/kg | 11 U | 5.1 U | 12 U | 12 U | | 21 U | 10 U | 5.8 U | 11 U | 15 U | 17 U | | 12 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.16 NJ | 0.11 J | 0.27 | 0.3 | | 0.15 U | 0.2 J | 0.42 NJ | 0.28 U | 0.21 J | 0.24 J | | 0.15 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.074 NJ | 0.064 U | 0.13 U | 0.063 J | | 0.12 U | 0.1 J | 0.17 J | 0.33 NJ | 0.094 U | 0.081 U | | 0.061 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 46 J | 28 J | 29 J | 29.8 JT | | 40 J | 21 J | 22 J | 48 J | 37 J | 34 J | | 23 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 19 J | 15 J | 17 J | 17.5 JT | | 29 J | 13 J | 11 J | 20 J | 22 J | 18 J | | 12 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 220 J | 170 J | 200 J | 214 JT | | 320 J | 140 J | 130 J | 350 J | 260 J | 260 J | | 180 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 51 J | 53 J | 71 J | 77 JT | | 220 J | 51 J | 58 J | 110 J | 97 J | 83 J | | 59 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 266 JA | 198 JA | 229 JA | 244 JA | | 360 JA | 161 JA | 152 JA | 398 JA | 297 JA | 294 JA | | 203 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 70 JA | 68 JA | 88 JA | 94.5 JA | | 249 JA | 64 JA | 69 JA | 130 JA | 119 JA | 101 JA | | 71 JA |
| **Phenols** | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.37 U | 0.38 U | 0.39 U | 0.41 U | | 0.4 U | 0.37 U | 0.33 U | 7.5 J | 2.3 U | 3.2 U | | 1.2 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.3 U | 0.31 U | 0.32 U | 0.33 U | | 0.32 U | 0.3 U | 0.27 U | 0.29 U | 0.38 U | 0.36 U | | 0.32 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.96 U | 0.98 U | 1.1 U | 1.1 U | | 9.4 U | 0.95 U | 0.86 U | 0.93 U | 1.3 U | 1.2 U | | 1.1 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.2 UJ | 0.2 UJ | 0.21 U | 0.22 U | | 0.21 U | 0.19 UJ | 0.18 UJ | 0.19 UJ | 0.25 U | 0.23 U | | 0.27 J |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 1 U | 1 U | 1 U | | 1 U | 1 U | 1 U | 5 U | 1.2 U | 1.1 U | | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 UJ | 5.5 UJ | 5.5 U | 5.5 U | | 5.5 U | 5.5 UJ | 5.5 UJ | 28 UJ | R | R | | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 17 U | 17 U | 17 U | | 17 U | 17 U | 17 U | 85 U | 19 U | 18 U | | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 2 U | 2 U | 2 U | | 2 U | 2 U | 2 U | 10 U | 2.3 U | 2.1 U | | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.7 U | 1.6 U | | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.7 U | 1.6 U | | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 1.4 U | | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.6 U | 1.5 U | | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 1.4 U | | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.6 U | 1.5 U | | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 3.2 J | 2.8 J | 7.9 J | 5.5 J | | 4.5 J | 1.5 U | 1.5 U | 44 J | 6 J | 5.9 J | | 3.9 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 18 U | 18 U | 18 U | | 18 U | 18 U | 18 U | 90 U | 20 U | 19 U | | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.28 U | 0.29 U | 0.3 U | 0.32 U | | 0.3 U | 0.28 U | 0.25 U | 6.8 NJ | 0.74 U | 0.34 U | | 0.3 U |
| Phenol | 108-95-2 | ug/kg | 6.2 J | 3.5 J | 16 U | 13 U | | 17 U | 5 J | 4.2 J | 10 U | 18 U | 17 U | | 12 U |
| **Phthalates** | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 17 J | 34 | 49 | 39 | | 42 | 94 | 51 | 240 | 71 | 120 | | 25 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 3.2 U | | 3.2 U | 10 | 8 J | 33 J | 8.3 J | 3.4 U | | 3.2 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 8.5 J | 15 | 15 | 24 | | 13 | 12 | 16 | 40 U | 17 | 15 | | 11 |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.3 J | 3.1 J | 2.6 J | 2.5 J | | 2.9 J | 2.1 J | 2.7 J | 7.3 J | 3.6 J | 3.7 J | | 3.2 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 1 U | 1 U | 1 U | | 1 U | 1 U | 1 U | 5 U | 1.2 U | 1.1 U | | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 1.7 U | 1.7 U | 1.7 U | | 1.7 U | 1.7 U | 1.7 U | 8.5 U | 1.9 U | 1.8 U | | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 2.6 U | 2.6 U | 2.6 U | | 2.6 U | 2.6 U | 2.6 U | 13 U | 2.9 U | 2.8 U | | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 2.9 U | 2.9 U | 2.9 U | | 2.9 U | 2.9 U | 2.9 U | 15 U | 3.3 U | 3.1 U | | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 3 U | 3 U | 3 U | | 3 U | 3 U | 3 U | 15 U | 3.4 U | 3.2 U | | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 2.9 U | 2.9 U | 2.9 U | | 2.9 U | 2.9 U | 2.9 U | 15 U | 3.3 U | 3.1 U | | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.7 U | 1.6 U | | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 2 U | 2 U | 2 U | | 2 U | 2 U | 2 U | 10 U | 2.3 U | 2.1 U | | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | | 1.6 U | 1.6 U | 1.6 U | 8 U | 1.8 U | 1.7 U | | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 3.2 U | | 3.2 U | 3.2 U | 3.2 U | 16 U | 3.6 U | 3.4 U | | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 3.7 U | | 3.7 U | 3.7 U | 3.7 U | 19 U | 4.1 U | 3.9 U | | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 2.5 U | 2.5 U | 2.5 U | | 2.5 U | 2.5 U | 2.5 U | 13 U | 2.8 U | 2.7 U | | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | | 1.6 U | 1.6 U | 1.6 U | 8 U | 1.8 U | 1.7 U | | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | | 1.9 U | 1.9 U | 1.9 U | 9.5 U | 2.2 U | 2 U | | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 1.4 U | | 1.4 U | 1.4 U | 1.4 U | 7 U | 1.6 U | 1.5 U | | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | | 1.8 U | 1.8 U | 1.8 U | 9 U | 2 U | 1.9 U | | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 1.5 U | 1.5 U | 21 J | 1.5 U | | 5.1 J | 1.5 U | 1.5 U | 7.5 U | 1.7 U | 1.6 U | | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 1.1 U | 1.1 U | 1.1 U | | 1.1 U | 1.1 U | 1.1 U | 5.5 U | 1.3 U | 1.2 U | | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 96 U | 120 J | 110 J | | 99 J | 96 U | 96 U | 480 U | 140 J | 180 J | | 120 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 6.1 J | 5 J | 7 J | 10 | | 5.9 J | 6.4 J | 2.1 U | 11 U | 14 | 16 | | 9.8 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | | 1.5 U | 1.5 U | 1.5 U | 7.5 U | 1.7 U | 1.6 U | | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | | 1.9 U | 1.9 U | 1.9 U | 9.5 U | 2.2 U | 2 U | | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 2.6 U | 2.6 U | 2.6 U | | 2.6 U | 2.6 U | 2.6 U | 13 U | 2.9 U | 2.8 U | | 2.6 U |

Table 4-1. Anlaytical Results for Round 3B Surface Sediment Samples

| | | Sample ID: | LW3-UG04B | LW3-UG04C | LW3-UG06A | LW3-UG06B | LW3-UG06B-R | LW3-UG06C | LW3-UG11A | LW3-UG11B | LW3-UG11C | LW3-UG12A | LW3-UG12B | LW3-UG12B-R | LW3-UG12C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 0 - 25 | 0 - 26 | 0 - 29 | 0 - 26 | 0 - 26 | 0 - 28 | 0 - 25 | 0 - 26 | 0 - 24 | 0 - 30 | 0 - 29 | 0 - 29 | 0 - 27 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | |
| Carbazole | 86-74-8 | ug/kg | 2.1 J | 1.3 U | 1.3 U | 1.6 J | | 1.3 U | 1.3 U | 1.3 U | 6.5 U | 1.5 U | 1.4 U | | 1.8 J |
| Dibenzofuran | 132-64-9 | ug/kg | 0.59 U | 0.59 U | 0.59 U | 0.63 J | | 0.59 U | 0.59 U | 0.59 U | 0.59 U | 0.76 J | 0.81 J | | 0.7 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.16 J | 0.075 J | 0.14 J | 0.18 J | | 0.24 | 0.22 J | 0.097 J | 0.1 J | 1.4 U | 1.3 U | | 0.068 U |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.17 U | 0.29 U | 0.2 U | | 2.5 U | 0.14 U | 0.14 U | 0.14 U | 0.4 | 0.36 | | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 29 U | 29 U | 29 U | | 29 U | 29 U | 29 U | 150 U | 33 U | 31 U | | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.16 U | 0.16 U | 0.16 U | | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.18 U | 0.17 U | | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 1 U | 1 U | 1 U | | 1 U | 1 U | 1 U | 5 U | 1.2 U | 1.1 U | | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 2.2 U | 2.2 U | 2.2 U | | 2.2 U | 2.2 U | 2.2 U | 11 U | 2.5 U | 2.3 U | | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 6.1 U | 6.1 U | 6.1 U | | 6.1 U | 6.1 U | 6.1 U | 31 U | 6.8 U | 6.4 U | | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | | 1.6 U | 1.6 U | 1.6 U | 8 U | 1.8 U | 1.7 U | | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 2.4 U | 2.4 U | 2.4 U | | 2.4 U | 2.4 U | 2.4 U | 12 U | 2.7 U | 2.5 U | | 2.4 U |

**Notes:**
PAH - polycyclic aromatic hydrocarbon
PCB - polychlorinated biphenyl
SVOC - semivolatile organic compound

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C600-B | LW3-C600-C | LW3-C600-D | LW3-C601-B1 | LW3-C601-B2 | LW3-C602-B | LW3-C602-C | LW3-C602-D | LW3-C604-B | LW3-C604-C | LW3-C604-D | LW3-C605-B | LW3-C605-C | LW3-C605-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 151 | 151 - 276 | 276 - 311 | 30 - 152 | 30 - 156 | 30 - 151 | 151 - 273 | 273 - 318 | 30 - 151 | 151 - 273 | 273 - 343 | 30 - 151 | 151 - 273 | 273 - 341 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5.1 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5.1 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5.1 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 16 NJ | 120 J | 25 | 28 | 31 T | 3.1 U | 18 | 15 J | 4.4 NJ | 10 | 14 J | 3.8 NJ | 3.5 | 8.8 J |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5.1 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 34 | 74 J | 6.6 | 50 | 56 T | 11 | 31 | 46 | 13 | 23 | 47 | 12 | 11 J | 15 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 21 | 28 J | 2.1 NJ | 33 | 40 JT | 8.1 | 25 | 41 J | 7.9 J | 19 | 42 | 8.7 | 8.2 J | 12 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 67 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5.1 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 29 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5 U | 1.3 U | 1.3 U | 5.1 U |
| Aroclors | 12767-79-2 | ug/kg | 71 JT | 222 JT | 33.7 JT | 111 T | 127 JT | 19.1 T | 74 T | 102 JT | 25.3 JT | 52 T | 103 JT | 24.5 JT | 22.7 JT | 35.8 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.28 | 1.67 | 1.99 T | 1.86 | 1.74 T | 1.46 | 1.49 | | 1.47 T | 1.47 | | 1.42 | 1.5 | |
| Total organic carbon | TOC | percent | 2.17 | 1.99 | 0.13 | 1.34 | 1.53 T | 2.01 | 2.18 | 1.84 | 2.05 T | 2.23 | 1.99 | 2.03 | 2.41 | 2.27 |
| Total solids | TSO | percent | 49.7 | 59.4 | 76.8 | 58 T | 58.4 T | 50.1 | 53 | 53.2 | 49.8 T | 53.3 | 53 | 50 | 51.4 | 48.9 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 2.65 A | 3.88 A | 0.378 JA | 2.32 A | 1.86 A | 0.801 A | 2.41 A | 3.52 A | 0.735 JA | 1.52 A | 2.87 A | 0.813 A | 0.687 JA | 3.45 A |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.53 | 0 | 0.17 | 0 | 0 T | 0.07 | 0.4 | | 0.0733 T | 0 | | 0.1 | 0 | |
| Fine gravel | GS_FG | percent | 0.95 | 1.16 | 0.3 | 0.2 | 0.25 T | 0.75 | 0.48 | | 0.473 T | 0.42 | | 0.87 | 1.11 | |
| Very coarse sand | GS_VCS | percent | 1.26 | 1.14 | 0.44 | 0.36 | 0.395 T | 0.47 | 1.17 | | 0.39 T | 1.15 | | 0.77 | 1.32 | |
| Coarse sand | GS_CS | percent | 0.65 | 0.51 | 28.9 | 0.77 | 1.03 T | 0.32 | 0.56 | | 0.26 T | 0.91 | | 0.46 | 1.14 | |
| Medium sand | GS_MS | percent | 0.75 | 0.56 | 51.1 | 3.17 | 4.48 T | 0.42 | 0.38 | | 0.32 T | 0.54 | | 0.47 | 0.79 | |
| Fine sand | GS_FS | percent | 3.32 | 2.62 | 8.19 | 5.56 | 5.55 T | 1.16 | 0.97 | | 0.97 T | 0.88 | | 1.51 | 2.15 | |
| Very fine sand | GS_VFS | percent | 12.5 | 8.19 | 1.57 | 15.6 | 16.1 T | 6.99 | 4.61 | | 8.22 T | 4.89 | | 8.14 | 7.62 | |
| Fines | GS_FINES | percent | 82.1 T | 87.4 T | 7.68 T | 70.3 T | 69.4 T | 91.2 T | 94.1 T | | 91 T | 91.8 T | | 86.8 T | 87.2 T | |
| Coarse silt | GS_CSILT | percent | 24 | 18 | 1.51 | 15.9 | 21.8 T | 23.8 | 20.4 | | 29 T | 23.6 | | 25.9 | 28.4 | |
| Medium silt | GS_MSILT | percent | 19.2 | 22.3 | 2.01 | 21.3 | 17.4 T | 22.4 | 24.6 | | 18.9 T | 21 | | 21.2 | 18.5 | |
| Fine silt | GS_FSILT | percent | 14.4 | 19.3 | 1.54 | 11.8 | 11.7 T | 17.3 | 19.3 | | 17.4 T | 18 | | 14.1 | 15.2 | |
| Very fine silt | GS_VFSILT | percent | 8.91 | 10.3 | 1.1 | 8 | 7.75 T | 10 | 10.8 | | 8.66 T | 13 | | 9.96 | 10.8 | |
| 8-9 Phi clay | GS_CCLAY | percent | 6.87 | 6.82 | 0.57 | 6.45 | 4.14 T | 6.08 | 7.33 | | 5.94 T | 7 | | 6.11 | 7.04 | |
| >9 Phi clay | GS_MFCLAY | percent | 8.67 | 10.7 | 0.95 | 6.87 | 6.64 T | 11.6 | 11.7 | | 11.1 T | 9.21 | | 9.56 | 7.22 | |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 29100 | 27600 | 10400 | 22600 | 25200 T | 34400 | 31300 | 32800 | 32300 T | 29000 | 30500 | 27900 | 29500 | 30500 |
| Antimony | 7440-36-0 | mg/kg | 0.26 J | 0.4 J | 0.15 J | 0.31 J | 0.3 JT | 0.24 J | 0.29 J | 0.24 J | 0.255 JT | 0.3 J | 0.24 J | 0.25 J | 0.3 J | 0.21 J |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C600-B | LW3-C600-C | LW3-C600-D | LW3-C601-B1 | LW3-C601-B2 | LW3-C602-B | LW3-C602-C | LW3-C602-D | LW3-C604-B | LW3-C604-C | LW3-C604-D | LW3-C605-B | LW3-C605-C | LW3-C605-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 151 | 151 - 276 | 276 - 311 | 30 - 152 | 30 - 156 | 30 - 151 | 151 - 273 | 273 - 318 | 30 - 151 | 151 - 273 | 273 - 343 | 30 - 151 | 151 - 273 | 273 - 341 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 3.15 | 3.72 | 1.21 | 2.93 | 3.25 T | 3.56 | 3.99 | 4.22 | 3.32 T | 3.53 | 4.05 | 3.04 | 3.33 | 3.75 |
| Cadmium | 7440-43-9 | mg/kg | 0.479 | 0.998 | 0.081 | 0.717 | 0.671 T | 0.386 | 0.753 | 0.875 J | 0.355 T | 0.52 | 0.833 J | 0.278 | 0.473 | 0.452 J |
| Chromium | 7440-47-3 | mg/kg | 25.4 | 24.5 | 8.89 | 20.6 | 22.8 T | 27.8 | 31.1 | 28.8 | 27.9 T | 37.5 | 27.9 | 25.9 | 27.9 | 29.4 |
| Copper | 7440-50-8 | mg/kg | 41.9 | 40.9 | 13 | 35.6 | 37 T | 44.5 | 50.9 | 45.1 | 43.3 T | 50.1 | 46.9 | 40.2 | 49.1 | 46 |
| Lead | 7439-92-1 | mg/kg | 20.7 | 26.4 | 3.34 | 28.4 | 25.7 T | 16.5 | 28.7 | 36.2 | 16.2 T | 27 | 37.1 | 13.9 | 19.7 | 23.6 |
| Mercury | 7439-97-6 | mg/kg | 0.119 | 0.192 | 0.0145 JT | 0.102 | 0.09 T | 0.075 | 0.116 | 0.115 J | 0.0785 T | 0.09 | 0.121 J | 0.067 | 0.094 | 0.089 J |
| Nickel | 7440-02-0 | mg/kg | 24.3 | 23.8 | 15.6 | 21.7 | 23.9 T | 27.2 | 28.4 | 26.8 | 26.1 T | 34.1 | 25.4 | 24.2 | 25.4 | 25.9 |
| Silver | 7440-22-4 | mg/kg | 0.28 | 0.29 | 0.05 J | 0.25 J | 0.25 JT | 0.24 | 0.36 | 0.5 | 0.24 T | 0.36 | 0.49 | 0.22 | 0.3 | 0.47 |
| Zinc | 7440-66-6 | mg/kg | 158 | 192 | 50.7 | 176 | 171 T | 125 | 165 | 230 | 121 T | 152 | 208 | 105 | 124 | 153 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 6.4 | 33 | 0.89 J | 56 | 50 T | 2.8 | 4.5 | 5.3 | 2.2 J | 4.9 | 5.9 | 1.9 J | 4.4 | 2.5 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 16 | 66 | 2.6 | 89 | 89 T | 4.6 | 8.7 | 11 | 3.5 | 9.9 | 13 | 3.1 | 7.3 | 4.3 |
| Acenaphthene | 83-32-9 | ug/kg | 26 | 170 | 1.6 J | 290 | 380 T | 10 | 14 | 16 | 9.9 | 13 | 16 | 5.2 | 18 | 7.5 |
| Acenaphthylene | 208-96-8 | ug/kg | 80 | 32 | 1.2 J | 37 | 35 T | 3.8 | 7.6 | 6.9 | 3.7 | 8.8 | 6.4 | 2.8 | 5.4 | 4.2 |
| Anthracene | 120-12-7 | ug/kg | 64 | 79 | 2 J | 99 | 100 T | 8.6 | 16 | 18 | 7.9 | 17 | 19 | 10 | 17 | 8.4 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 400 | 200 | 7.2 J | 270 | 280 T | 29 | 66 | 39 | 36 | 64 | 41 | 33 | 56 | 37 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 730 | 270 | 10 J | 360 | 350 T | 41 | 85 | 57 | 51 | 78 | 58 | 47 | 72 | 46 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 690 | 270 | 10 J | 350 | 340 T | 47 | 110 | 63 | 61 | 98 | 66 | 55 | 94 | 62 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | | | | 220 | 220 T | 30 | 64 | 43 | 38 | 57 | 44 | 36 | 56 | 40 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 640 | 270 | 12 J | 290 | 280 T | 34 | 77 | 56 | 45 | 65 | 54 | 42 | 64 | 38 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 200 | 72 | 4.1 J | 110 | 100 T | 15 | 38 | 21 | 18 | 28 | 21 | 20 | 29 | 20 |
| Chrysene | 218-01-9 | ug/kg | 530 | 250 | 8.8 J | 330 | 320 T | 37 | 82 | 49 | 46 | 79 | 52 | 48 | 66 | 48 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 72 | 32 | 1.2 J | 36 | 36 T | 5.8 | 12 | 7.5 | 6.1 | 11 | 7.8 | 5.9 | 10 | 6.4 |
| Dibenzothiophene | 132-65-0 | ug/kg | 10 | 100 | 0.87 J | 89 | 110 T | 4.1 | 6.1 | 4.8 | 3.2 | 6.6 | 5.2 | 2.4 J | 5.8 | 3.4 |
| Fluoranthene | 206-44-0 | ug/kg | 490 | 580 | 9.6 J | 750 | 880 T | 66 | 130 | 90 | 74 | 130 | 89 | 64 | 110 | 72 |
| Fluorene | 86-73-7 | ug/kg | 19 | 130 | 0.96 J | 160 | 240 T | 7.5 | 11 | 13 | 6.4 | 11 | 12 | 4.5 | 12 | 6.3 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 620 | 250 | 9.7 J | 300 | 270 T | 31 | 77 | 53 | 44 | 64 | 53 | 43 | 67 | 39 |
| Naphthalene | 91-20-3 | ug/kg | 47 | 110 | 4.7 | 170 | 140 T | 14 | 29 | 24 | 10 | 37 | 30 | 9.3 | 23 | 15 |
| Perylene | 198-55-0 | ug/kg | | | | 140 | 140 T | 89 | 80 | 39 | 53 | 95 | 33 | 49 | 80 | 36 |
| Phenanthrene | 85-01-8 | ug/kg | 100 | 790 | 16 J | 970 | 1400 T | 44 | 77 | 63 | 42 | 78 | 61 | 32 | 67 | 43 |
| Pyrene | 129-00-0 | ug/kg | 520 | 640 | 20 J | 790 | 870 T | 76 | 130 | 98 | 76 | 170 | 96 | 68 | 110 | 72 |
| High Molecular Weight PAH | HPAH | ug/kg | 4900 T | 2800 T | 93 JT | 3600 T | 3700 T | 380 T | 810 T | 530 T | 460 T | 790 T | 540 T | 430 T | 680 T | 440 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 350 T | 1400 T | 29 JT | 1800 T | 2400 T | 93 T | 160 T | 150 T | 83 T | 170 T | 160 T | 67 T | 150 T | 89 T |
| Total PAHs | 130498-29-2 | ug/kg | 5200 T | 4200 T | 120 JT | 5400 T | 6100 T | 470 T | 970 T | 690 T | 540 T | 960 T | 700 T | 490 T | 830 T | 530 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | | | | 51 | 51 T | 5 | 14 | 12 | 4.6 | 15 | 9.1 | 2.3 J | 8.3 | 6.2 |
| C1-Chrysene | C1_218-01-9 | ug/kg | | | | 190 | 210 T | 30 J | 72 | 46 | 32 J | 74 | 47 | 39 J | 50 | 25 |
| C1-Fluorene | C1_86-73-7 | ug/kg | | | | 59 | 76 T | 3.9 | 6.4 | 5.7 | 3.6 | 8.4 | 5.8 | 3.4 | 7.1 | 6.1 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | | | | 310 | 340 T | 31 | 80 | 53 | 39 | 76 | 45 | 43 | 59 | 49 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | | | | 440 | 540 T | 29 | 39 | 39 | 18 | 46 | 36 | 26 | 37 | 27 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | | | | 110 | 110 T | 11 | 32 | 18 | 7.6 | 34 | 16 | 6.6 | 18 | 14 |
| C2-Chrysene | C2_218-01-9 | ug/kg | | | | 130 | 140 T | 19 | 51 | 36 | 18 | 47 | 38 | 20 | 36 | 33 |
| C2-Fluorene | C2_86-73-7 | ug/kg | | | | 97 | 100 T | 7.3 | 21 | 18 | 8.4 | 17 | 15 | 5.1 | 14 | 11 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | | | | 180 | 190 T | 8.6 | 13 | 22 | 7 | 14 | 22 | 5.7 | 13 | 7.8 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | | | | 280 | 310 T | 24 | 45 | 42 | 14 | 52 | 44 | 14 | 34 | 32 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | | | | 94 | 96 T | 7.2 | 29 | 19 | 8.5 | 43 | 16 | 5.6 | 18 | 15 |
| C3-Chrysene | C3_218-01-9 | ug/kg | | | | 79 | 79 T | 17 | 39 | 28 | 12 | 48 | 30 | 16 | 31 | 31 |
| C3-Fluorene | C3_86-73-7 | ug/kg | | | | 130 | 140 T | 16 | 27 | 30 | 14 | 39 | 23 | 10 | 19 | 15 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | | | | 210 | 230 T | 8.4 | 15 | 17 | 7.6 | 17 | 16 | 5.5 | 13 | 8.3 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | | | | 220 | 250 T | 28 | 63 | 56 | 19 | 95 | 44 | 23 | 38 | 50 |
| C4-Chrysene | C4_218-01-9 | ug/kg | | | | 43 | 47 T | 0.25 U | 30 | 17 | 11 | 30 | 18 | 0.25 U | 19 | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | | | | 130 | 140 T | 11 | 23 | 24 | 9 | 26 | 24 | 8 | 18 | 14 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | | | | 140 | 94 T | 14 | 43 | 23 | 10 | 46 | 20 | 9.6 | 30 | 29 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | | | | 180 | 190 T | 27 | 69 | 36 | 24 | 58 | 44 | 27 | 41 | 37 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | | | | 110 | 120 T | 17 | 49 | 30 | 16 | 48 | 32 | 15 | 29 | 34 |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 47.3 | 211 | 16 | 45.8 | 36.7 | 11 | 71.8 | 128 | 9.33 | 23.7 | 52.9 | 12.6 | 13 | 90.9 |
| PCB002 | 2051-61-8 | pg/g | 32.1 | 64.7 | 5 U | 13.6 | 12 | 20.4 | 40.2 | 28.1 | 14.8 | 30.4 | 21.4 | 17.2 | 22 | 24.7 |
| PCB003 | 2051-62-9 | pg/g | 57.9 | 296 | 12.5 | 43.1 | 36.1 | 11.9 | 74.5 | 85.9 | 10.1 | 27.5 | 54.2 | 12.4 | 15.7 | 77.3 |
| PCB004 & 010 | PCB004_010 | pg/g | 343 | 3270 | 299 | 181 | 157 | 45.4 | 650 | 385 | 38.5 | 101 | 201 | 38 | 46 | 322 |
| PCB005 & 008 | PCB005_008 | pg/g | 1280 | 14900 | 1870 | 739 | 689 | 111 | 1380 | 1000 | 93.6 | 273 | 573 | 134 | 111 | 840 |
| PCB006 | 25569-80-6 | pg/g | 394 | 3660 | 259 | 169 | 162 | 27.2 | 560 | 223 | 24.3 | 96.9 | 136 | 28.9 | 31.7 | 186 |
| PCB007 & 009 | PCB007_009 | pg/g | 98 | 707 | 66.3 | 84.9 | 81.5 | 9.81 U | 152 | 123 | 9.81 U | 30.5 | 64.6 | 12.7 | 10.9 | 98.7 |
| PCB011 | 2050-67-1 | pg/g | 145 | 65.6 | 10 U | 32.8 | 43.1 | 160 | 284 | 64.1 | 127 | 315 | 80.1 | 140 | 199 | 51.7 |
| PCB012 & 013 | PCB012_013 | pg/g | 119 | 587 | 41.8 | 93.7 | 93.3 | 19.1 | 148 | 107 | 14.4 | 50 | 79.9 | 18.8 | 18 | 88.5 |
| PCB014 | 34883-41-5 | pg/g | 9.98 U | 9.98 U | 10 U | 9.82 U | 9.84 U | 9.81 U | 9.99 U | 9.98 U | 9.81 U | 9.91 U | 9.92 U | 9.91 U | 10.1 U | 9.78 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C600-B | LW3-C600-C | LW3-C600-D | LW3-C601-B1 | LW3-C601-B2 | LW3-C602-B | LW3-C602-C | LW3-C602-D | LW3-C604-B | LW3-C604-C | LW3-C604-D | LW3-C605-B | LW3-C605-C | LW3-C605-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 151 | 151 - 276 | 276 - 311 | 30 - 152 | 30 - 156 | 30 - 151 | 151 - 273 | 273 - 318 | 30 - 151 | 151 - 273 | 273 - 343 | 30 - 151 | 151 - 273 | 273 - 341 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | 881 | 4580 | 395 | 533 | 516 | 181 | 1100 | 722 | 112 | 324 | 571 | 156 | 135 | 666 |
| PCB016 & 032 | PCB016_032 | pg/g | 1640 | 15400 | 1500 | 1200 | 1110 | 202 | 2080 | 1570 | 208 | 531 | 1250 | 180 | 156 | 1360 |
| PCB017 | 37680-66-3 | pg/g | 1240 | 14900 | 1490 | 1040 | 1010 | 118 | 1810 | 1320 | 117 | 396 | 992 | 106 | 107 | 1150 |
| PCB018 | 37680-65-2 | pg/g | 2340 | 23100 | 2290 | 2080 | 1850 | 226 | 2760 | 2590 | 227 | 684 | 2010 | 226 | 220 | 2240 |
| PCB019 | 38444-73-4 | pg/g | 219 | 1810 | 177 | 132 | 116 | 37.5 | 349 | 217 | 35.6 | 79.5 | 158 | 39.4 | 31.3 | 185 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 1360 | 6640 | 500 | 1670 | 1580 | 183 | 726 | 1750 | 192 | 485 | 1200 | 228 | 181 | 1390 |
| PCB022 | 38444-85-8 | pg/g | 965 | 3010 | 229 | 868 | 838 | 145 | 576 | 926 | 170 | 340 | 739 | 169 | 121 | 866 |
| PCB023 | 55720-44-0 | pg/g | 4.99 U | 10.3 | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB024 & 027 | PCB024_027 | pg/g | 183 | 1450 | 135 | 120 | 113 | 25.7 | 252 | 181 | 26.3 | 65.3 | 139 | 22.1 | 20.5 | 162 |
| PCB025 | 55712-37-3 | pg/g | 590 | 3940 | 299 | 266 | 274 | 42.5 | 625 | 351 | 46.5 | 194 | 239 | 45.4 | 45.8 | 233 |
| PCB026 | 38444-81-4 | pg/g | 895 | 6270 | 419 | 378 | 447 | 73.6 | 1020 | 500 | 83 | 286 | 366 | 77.3 | 74.1 | 403 |
| PCB028 | 7012-37-5 | pg/g | 4750 | 36900 | 3770 | 3500 | 3390 | 774 | 5160 | 4050 | 737 | 1650 | 3210 | 658 | 513 | 3600 |
| PCB029 | 15862-07-4 | pg/g | 11 | 25.5 | 5 U | 11.9 | 12.2 | 4.9 U | 4.99 U | 14.5 | 4.9 U | 4.96 U | 7.63 | 4.95 U | 5.03 U | 8.97 |
| PCB030 | 35693-92-6 | pg/g | 4.99 U | 9.65 | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB031 | 16606-02-3 | pg/g | 3820 | 25700 | 2070 | 2670 | 2540 | 416 | 3300 | 3260 | 419 | 915 | 2350 | 474 | 342 | 2580 |
| PCB034 | 37680-68-5 | pg/g | 68.8 | 473 | 46 | 50.9 | 49 | 7.89 | 66.2 | 59.5 | 8.28 | 22 | 39.2 | 4.95 U | 5.26 | 42.6 |
| PCB035 | 37680-69-6 | pg/g | 39.4 | 135 | 8.66 | 44.8 | 43.3 | 9.35 | 41.2 | 49.8 | 8.09 | 20.7 | 41.9 | 11.9 | 8.7 | 40.1 |
| PCB036 | 38444-87-0 | pg/g | 4.99 U | 36.6 | 5 U | 4.91 U | 4.92 U | 4.9 U | 5.67 | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB037 | 38444-90-5 | pg/g | 1220 | 2600 | 239 | 891 | 848 | 269 | 829 | 1110 | 238 | 454 | 940 | 316 | 175 | 914 |
| PCB038 | 53555-66-1 | pg/g | 107 | 128 | 12 | 20.5 | 21.3 | 16.8 | 106 | 80.7 | 15.4 | 43.7 | 77.8 | 10.9 | 9.3 | 73.5 |
| PCB039 | 38444-88-1 | pg/g | 28.9 | 353 | 21.5 | 32.6 | 34 | 5.19 | 49.7 | 27.7 | 5.33 | 16.7 | 26.4 | 4.95 U | 5.04 | 26.1 |
| PCB040 | 38444-93-8 | pg/g | 716 | 3060 | 264 | 729 | 668 | 126 | 664 | 841 | 157 | 285 | 763 | 127 | 86.6 | 653 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 3970 | 20700 | 1670 | 3810 | 3500 | 798 | 3740 | 4560 | 898 | 1520 | 4000 | 757 | 474 | 3540 |
| PCB042 & 059 | PCB042_059 | pg/g | 1530 | 5390 | 430 | 1470 | 1390 | 270 | 1210 | 1570 | 310 | 565 | 1460 | 252 | 171 | 1300 |
| PCB043 & 049 | PCB043_049 | pg/g | 4580 | 29900 | 2490 | 4030 | 3980 | 755 | 4540 | 4280 | 911 | 1860 | 3640 | 713 | 513 | 4040 |
| PCB044 | 41464-39-5 | pg/g | 4660 | 18300 | 1410 | 4350 | 4050 | 836 | 4060 | 5040 | 1090 | 1680 | 4580 | 784 | 531 | 4060 |
| PCB045 | 70362-45-7 | pg/g | 659 | 3370 | 260 | 611 | 558 | 107 | 636 | 713 | 143 | 232 | 694 | 109 | 74.4 | 603 |
| PCB046 | 41464-47-5 | pg/g | 332 | 2880 | 275 | 257 | 231 | 49.8 | 379 | 310 | 60 | 117 | 273 | 45.5 | 34.7 | 268 |
| PCB047 | 2437-79-8 | pg/g | 1710 | 13600 | 1020 | 1350 | 1350 | 280 | 1880 | 1560 | 325 | 876 | 1490 | 278 | 207 | 1340 |
| PCB048 & 075 | PCB048_075 | pg/g | 825 | 3300 | 329 | 1020 | 947 | 142 | 708 | 1160 | 184 | 256 | 869 | 147 | 97.7 | 877 |
| PCB050 | 62796-65-0 | pg/g | 20.3 | 168 | 14.3 | 20.8 | 20.9 | 4.9 U | 25.3 | 22.7 | 4.9 U | 9.03 | 20 | 4.95 U | 5.03 U | 20.5 |
| PCB051 | 68194-04-7 | pg/g | 292 | 2630 | 237 | 207 | 203 | 46.4 | 393 | 244 | 60.2 | 173 | 239 | 52.8 | 44.6 | 232 |
| PCB052 & 069 | PCB052_069 | pg/g | 4970 | 28300 | 2340 | 4600 | 4310 | 881 | 4770 | 5390 | 1080 | 2050 | 4750 | 820 | 629 | 4730 |
| PCB053 | 41464-41-9 | pg/g | 778 | 5820 | 522 | 586 | 532 | 114 | 961 | 756 | 168 | 337 | 690 | 124 | 105 | 651 |
| PCB054 | 15968-05-5 | pg/g | 13.2 | 59.6 | 5.31 | 8.64 | 8.76 | 4.9 U | 17.2 | 12.8 | 5.11 | 9.94 | 9.75 | 7.04 | 5.03 U | 10.6 |
| PCB055 | 74338-24-2 | pg/g | 61.4 | 114 | 9.13 | 37.6 | 33.5 | 13.6 | 47.8 | 71.7 | 15.7 | 30.2 | 62.3 | 14.5 | 11.5 | 64.1 |
| PCB056 & 060 | PCB056_060 | pg/g | 2870 | 7600 | 618 | 2530 | 2310 | 573 | 1960 | 2940 | 667 | 935 | 2480 | 626 | 319 | 2480 |
| PCB057 | 70424-67-8 | pg/g | 28.1 | 168 | 12.2 | 23.5 | 28.6 | 5.45 | 28.6 | 30.7 | 5.36 | 11.5 | 25.9 | 6.53 | 5.03 U | 27.8 |
| PCB058 | 41464-49-7 | pg/g | 33.2 | 159 | 12.4 | 39.8 | 36.1 | 6.28 | 32.6 | 50.5 | 6.18 | 15.8 | 38.2 | 5.29 | 5.03 U | 37.6 |
| PCB061 & 070 | PCB061_070 | pg/g | 5480 | 22500 | 1700 | 6000 | 5390 | 993 | 4570 | 6810 | 1130 | 2050 | 5740 | 1020 | 667 | 5840 |
| PCB062 | 54230-22-7 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB063 | 74472-34-7 | pg/g | 217 | 1060 | 90.7 | 209 | 186 | 34.4 | 178 | 277 | 41.5 | 72 | 206 | 42.6 | 26.5 | 213 |
| PCB065 | 33284-54-7 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB066 & 076 | PCB066_076 | pg/g | 5370 | 14900 | 1240 | 4870 | 4450 | 987 | 4000 | 5850 | 1170 | 1930 | 5000 | 990 | 609 | 5030 |
| PCB067 | 73575-53-8 | pg/g | 113 | 364 | 31.7 | 116 | 105 | 21.5 | 86.7 | 135 | 25.4 | 43.9 | 105 | 24.9 | 16 | 108 |
| PCB068 | 73575-52-7 | pg/g | 55.9 | 487 | 35 | 79.1 | 72.2 | 12.3 | 73.4 | 86 | 12.7 | 38.9 | 77.4 | 10.5 | 11.8 | 66.8 |
| PCB073 | 74338-23-1 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB074 | 32690-93-0 | pg/g | 2330 | 6530 | 582 | 2310 | 2040 | 435 | 1700 | 2680 | 507 | 772 | 4.96 U | 474 | 278 | 2310 |
| PCB077 | 32598-13-3 | pg/g | 487 | 1290 | 111 | 376 | 352 | 105 | 368 | 471 | 102 | 176 | 413 | 149 | 64.1 | 427 |
| PCB078 | 70362-49-1 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB079 | 41464-48-6 | pg/g | 82.2 | 192 | 14.4 | 76.4 | 60.7 | 22.6 | 83.1 | 128 | 22.8 | 47.2 | 112 | 18.7 | 18.7 | 114 |
| PCB080 | 33284-52-5 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB081 | 70362-50-4 | pg/g | 10.7 | 18.3 | 0.896 J | 16.3 | 12 | 4.95 | 11.9 | 25.9 | 4.13 J | 6.58 | 19.2 | 6.43 | 2.7 J | 14 |
| PCB082 | 52663-62-4 | pg/g | 811 | 1390 | 128 | 643 | 526 | 173 | 582 | 874 | 183 | 317 | 723 | 161 | 111 | 785 |
| PCB083 | 60145-20-2 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB084 & 092 | PCB084_092 | pg/g | 2310 | 8380 | 575 | 2440 | 2060 | 513 | 2210 | 3090 | 550 | 1250 | 2750 | 463 | 429 | 2750 |
| PCB085 & 116 | PCB085_116 | pg/g | 961 | 1890 | 167 | 911 | 765 | 213 | 770 | 1050 | 236 | 424 | 880 | 200 | 150 | 923 |
| PCB086 | 55312-69-1 | pg/g | 37.3 | 54.3 | 6 | 26.1 | 25.6 | 8.25 | 25.5 | 25.7 | 11.2 | 9.01 | 29.8 | 7.97 | 5.03 U | 36.8 |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 1520 | 3080 | 253 | 1550 | 1240 | 360 | 1230 | 1880 | 390 | 761 | 1560 | 349 | 268 | 1700 |
| PCB088 & 091 | PCB088_091 | pg/g | 1000 | 3930 | 281 | 1020 | 963 | 208 | 999 | 1130 | 241 | 597 | 1050 | 193 | 170 | 988 |
| PCB089 | 73575-57-2 | pg/g | 112 | 239 | 20.9 | 85.6 | 75.5 | 21.8 | 82.5 | 116 | 25 | 38 | 97.4 | 17.7 | 12.5 | 99.8 |
| PCB090 & 101 | PCB090_101 | pg/g | 4500 | 12900 | 952 | 5650 | 4520 | 1130 | 4310 | 6730 | 1180 | 2730 | 6140 | 1060 | 971 | 6010 |
| PCB093 | 73575-56-1 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB094 | 73575-55-0 | pg/g | 52.5 | 252 | 20.3 | 35.1 | 33.2 | 10.2 | 53.6 | 41.9 | 11.3 | 32.1 | 37.8 | 8.89 | 7.51 | 35.9 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 3750 | 14100 | 1030 | 4320 | 3660 | 850 | 3800 | 4950 | 955 | 2160 | 4300 | 819 | 708 | 4430 |
| PCB096 | 73575-54-9 | pg/g | 88.1 | 391 | 34.3 | 68.8 | 62.8 | 16.7 | 84.4 | 77 | 18.9 | 44.1 | 67.1 | 13.9 | 10.5 | 66.7 |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C600-B | LW3-C600-C | LW3-C600-D | LW3-C601-B1 | LW3-C601-B2 | LW3-C602-B | LW3-C602-C | LW3-C602-D | LW3-C604-B | LW3-C604-C | LW3-C604-D | LW3-C605-B | LW3-C605-C | LW3-C605-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 151 | 151 - 276 | 276 - 311 | 30 - 152 | 30 - 156 | 30 - 151 | 151 - 273 | 273 - 318 | 30 - 151 | 151 - 273 | 273 - 343 | 30 - 151 | 151 - 273 | 273 - 341 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | 1650 | 3920 | 324 | 1650 | 1390 | 352 | 1370 | 1990 | 370 | 803 | 1640 | 334 | 270 | 1800 |
| PCB099 | 38380-01-7 | pg/g | 2580 | 7270 | 545 | 2810 | 2380 | 614 | 2360 | 3670 | 656 | 1410 | 3310 | 546 | 505 | 3200 |
| PCB100 | 39485-83-1 | pg/g | 42.7 UJ | 227 | 16.2 | 53.4 | 51.8 | 15.9 | 60.4 | 51.6 | 16.5 | 110 | 71.3 | 14.7 | 15.8 | 43 |
| PCB103 | 60145-21-3 | pg/g | 80.2 | 376 | 24.4 | 128 | 110 | 26.2 | 116 | 138 | 26.8 | 74.4 | 147 | 22.2 | 27.5 | 122 |
| PCB104 | 56558-16-8 | pg/g | 4.99 U | 6.03 | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 6.57 | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB105 | 32598-14-4 | pg/g | 1460 | 2420 | 216 | 1190 | 965 | 353 | 1110 | 1710 | 360 | 653 | 1360 | 370 | 243 | 1530 |
| PCB106 & 118 | PCB106_118 | pg/g | 3830 | 8450 | 749 | 4070 | 3270 | 960 | 3360 | 5350 | 964 | 2110 | 4350 | 917 | 787 | 4870 |
| PCB107 & 109 | PCB107_109 | pg/g | 370 | 1110 | 87 | 429 | 344 | 91.5 | 353 | 551 | 96.7 | 211 | 485 | 82.5 | 78.2 | 493 |
| PCB108 & 112 | PCB108_112 | pg/g | 291 | 1010 | 76.9 | 285 | 242 | 59.4 | 260 | 348 | 64.6 | 143 | 287 | 59.8 | 46.5 | 306 |
| PCB110 | 38380-03-9 | pg/g | 5460 | 12700 | 1020 | 6190 | 5090 | 1290 | 4880 | 7110 | 1340 | 3050 | 5760 | 1260 | 1050 | 6380 |
| PCB111 & 115 | PCB111_115 | pg/g | 82.3 | 133 | 10.7 | 61.8 | 51.9 | 20 | 52.7 | 70.3 | 18.1 | 26.4 | 92.9 | 19 | 9.6 | 65.8 |
| PCB113 | 68194-10-5 | pg/g | 24.6 | 68.4 | 5.33 | 21.4 | 22.6 | 4.9 U | 32.5 | 25.6 | 5.51 | 11.9 | 55.3 | 4.95 U | 5.03 U | 60.8 |
| PCB114 | 74472-37-0 | pg/g | 93.3 | 171 | 15.9 | 80.1 | 70.4 | 20 | 70.7 | 110 | 22.5 | 36.7 | 84.1 | 24.2 | 11.9 | 97.3 |
| PCB119 | 56558-17-9 | pg/g | 175 | 650 | 42 | 218 | 195 | 45.4 | 199 | 255 | 48.2 | 122 | 251 | 39.2 | 42.1 | 223 |
| PCB120 | 68194-12-7 | pg/g | 17.8 | 85.1 | 5.28 | 38 | 25.3 | 5.91 | 12 | 32.6 | 6.46 | 7.95 | 39.9 | 4.95 U | 6.05 | 33.2 |
| PCB121 | 56558-18-0 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB122 | 76842-07-4 | pg/g | 61 | 117 | 10.7 | 55.2 | 45.8 | 12.2 | 46.2 | 63.9 | 12.7 | 25.1 | 53.8 | 14.5 | 9.48 | 64.1 |
| PCB123 | 65510-44-3 | pg/g | 82.9 | 145 | 13.8 | 63.4 | 54.1 | 17.8 | 60.4 | 76.8 | 20.6 | 33.2 | 66.1 | 19.8 | 12.1 | 69.2 |
| PCB124 | 70424-70-3 | pg/g | 131 | 240 | 19.3 | 131 | 113 | 34 | 120 | 158 | 35.4 | 72.9 | 127 | 37.1 | 31.6 | 152 |
| PCB126 | 57465-28-8 | pg/g | 24.2 | 33.8 | 3.35 J | 21 | 16.8 | 7.44 | 22.2 | 32.2 | 6.78 | 14 | 26.2 | 7.52 | 6.44 | 31.8 |
| PCB127 | 39635-33-1 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB128 & 162 | PCB128_162 | pg/g | 430 | 851 | 70.2 | 604 | 449 | 147 | 486 | 852 | 144 | 344 | 699 | 137 | 146 | 809 |
| PCB129 | 55215-18-4 | pg/g | 126 | 222 | 18.7 | 164 | 122 | 37.6 | 120 | 214 | 36.4 | 90.1 | 178 | 39.3 | 35.9 | 208 |
| PCB130 | 52663-66-8 | pg/g | 218 | 456 | 37.5 | 336 | 252 | 77.2 | 270 | 525 | 75.1 | 185 | 481 | 60.2 | 84.5 | 437 |
| PCB131 | 61798-70-7 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB132 & 161 | PCB132_161 | pg/g | 887 | 1560 | 126 | 1310 | 957 | 291 | 1030 | 1820 | 282 | 722 | 1680 | 263 | 291 | 1750 |
| PCB133 & 142 | PCB133_142 | pg/g | 123 | 255 | 18.4 | 177 | 120 | 47 | 134 | 239 | 41.4 | 97.2 | 1490 | 33.2 | 40.4 | 216 |
| PCB134 & 143 | PCB134_143 | pg/g | 174 | 380 | 27.1 | 241 | 183 | 56.9 | 195 | 319 | 55.9 | 136 | 324 | 50.3 | 53.8 | 309 |
| PCB135 | 52744-13-5 | pg/g | 428 | 1110 | 76.5 | 850 | 619 | 159 | 608 | 902 | 163 | 389 | 1860 | 144 | 151 | 820 |
| PCB136 | 38411-22-2 | pg/g | 421 | 1160 | 77.5 | 780 | 577 | 149 | 573 | 887 | 149 | 375 | 854 | 136 | 139 | 804 |
| PCB137 | 35694-06-5 | pg/g | 136 | 268 | 19.9 | 170 | 123 | 37.1 | 138 | 199 | 39.4 | 103 | 194 | 37.2 | 35.2 | 242 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 2820 | 5740 | 392 | 4590 | 3330 | 1010 | 3390 | 6110 | 1050 | 2440 | 6420 | 930 | 1030 | 5740 |
| PCB139 & 149 | PCB139_149 | pg/g | 2350 | 5670 | 385 | 4860 | 3600 | 859 | 3490 | 5080 | 893 | 2300 | 5420 | 825 | 831 | 4680 |
| PCB140 | 59291-64-4 | pg/g | 34.8 | 76.7 | 5.56 | 67 | 47.9 | 13.9 | 43 | 69.1 | 13.3 | 26.1 | 436 | 10.7 | 11.5 | 62.6 |
| PCB141 | 52712-04-6 | pg/g | 459 | 766 | 49.6 | 771 | 544 | 163 | 582 | 1020 | 167 | 403 | 909 | 156 | 164 | 976 |
| PCB144 | 68194-14-9 | pg/g | 119 | 215 | 13.9 | 220 | 158 | 40.8 | 137 | 263 | 39.3 | 102 | 200 | 39 | 40 | 230 |
| PCB145 | 74472-40-5 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB146 & 165 | PCB146_165 | pg/g | 622 | 1360 | 75.9 | 1040 | 705 | 243 | 752 | 1390 | 228 | 520 | 6390 | 175 | 237 | 1240 |
| PCB147 | 68194-13-8 | pg/g | 81.5 | 250 | 21.7 | 116 | 108 | 29.3 | 104 | 123 | 49.2 | 117 | 144 | 29.2 | 27.8 | 120 |
| PCB148 | 74472-41-6 | pg/g | 14.1 | 43.2 | 5 U | 31.5 | 21.2 | 9.52 | 21.9 | 32.5 | 5.97 | 15.2 | 452 | 4.95 U | 6.5 | 23.4 |
| PCB150 | 68194-08-1 | pg/g | 12 | 51.1 | 5 U | 24.6 | 19.2 | 5.76 | 20.6 | 23 | 7.44 | 18.2 | 72.6 | 4.95 U | 5.59 | 20.5 |
| PCB151 | 52663-63-5 | pg/g | 655 | 1400 | 91.6 | 1350 | 964 | 252 | 969 | 1490 | 261 | 630 | 1710 | 238 | 245 | 1360 |
| PCB152 | 68194-09-2 | pg/g | 5.14 | 12.2 | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 5.84 | 4.9 U | 11.5 | 4.96 U | 4.95 U | 5.03 U | 5.45 |
| PCB153 | 35065-27-1 | pg/g | 2790 | 5680 | 354 | 4960 | 3640 | 1060 | 3650 | 6560 | 1100 | 2600 | 8890 | 928 | 1070 | 5980 |
| PCB154 | 60145-22-4 | pg/g | 103 | 323 | 17.9 | 202 | 153 | 45.8 | 141 | 221 | 42.5 | 105 | 1340 | 26.7 | 38.8 | 191 |
| PCB155 | 33979-03-2 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB156 | 38380-08-4 | pg/g | 267 | 522 | 39.7 | 362 | 269 | 84 | 296 | 514 | 88.4 | 206 | 432 | 86.6 | 83.3 | 486 |
| PCB157 | 69782-90-7 | pg/g | 57.3 | 105 | 7.94 | 67.9 | 53.2 | 18.5 | 56.3 | 99.7 | 18.5 | 42.6 | 89 | 19.7 | 18.4 | 101 |
| PCB158 & 160 | PCB158_160 | pg/g | 277 | 458 | 33 | 394 | 277 | 94.3 | 309 | 519 | 95 | 222 | 446 | 93.4 | 89.7 | 505 |
| PCB159 | 39635-35-3 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB166 | 41411-63-6 | pg/g | 10.4 | 19.4 | 5 U | 13.5 | 10.3 | 4.9 U | 8.99 | 17.6 | 4.9 U | 7.25 | 11.7 | 4.95 U | 5.03 U | 16.1 |
| PCB167 | 52663-72-6 | pg/g | 107 | 198 | 15.5 | 141 | 108 | 36.7 | 119 | 204 | 38.9 | 86 | 171 | 34.6 | 36.4 | 195 |
| PCB168 | 59291-65-5 | pg/g | 9.03 | 15.7 | 5 U | 12.7 | 9.04 | 4.9 U | 9.46 | 18.1 | 4.9 U | 7.74 | 66.4 | 4.95 U | 5.03 U | 15.2 |
| PCB169 | 32774-16-6 | pg/g | 2.85 U | 2.14 U | 0.927 U | 1.3 U | 1.07 U | 1.56 U | 3.59 U | 3.65 U | 1.62 U | 2.29 U | 2.31 U | 1.13 U | 1.67 U | 2.77 U |
| PCB170 | 35065-30-6 | pg/g | 714 | 1280 | 62.4 | 1220 | 889 | 280 | 1000 | 1710 | 387 | 707 | 1800 | 244 | 293 | 1540 |
| PCB171 | 52663-71-5 | pg/g | 211 | 370 | 16.8 | 374 | 272 | 80.4 | 277 | 510 | 103 | 194 | 562 | 69.6 | 82.7 | 459 |
| PCB172 | 52663-74-8 | pg/g | 132 | 230 | 10.4 | 231 | 165 | 51.5 | 180 | 321 | 70.7 | 125 | 489 | 43.5 | 55.6 | 289 |
| PCB173 | 68194-16-1 | pg/g | 19.6 | 31.5 | 5 U | 33 | 23.3 | 7.69 | 25.4 | 42 | 9.65 | 18.4 | 39.9 | 7.16 | 7.81 | 39.7 |
| PCB174 | 38411-25-5 | pg/g | 870 | 1470 | 62.7 | 1670 | 1150 | 364 | 1240 | 2280 | 446 | 879 | 2710 | 302 | 382 | 2040 |
| PCB175 | 40186-70-7 | pg/g | 37.4 | 75 | 5 U | 74.4 | 49.4 | 14.7 | 58 | 89.8 | 19.4 | 36.6 | 106 | 12.7 | 15 | 89.9 |
| PCB176 | 52663-65-7 | pg/g | 115 | 202 | 10.7 | 228 | 162 | 46 | 163 | 300 | 55 | 118 | 736 | 38.6 | 48.5 | 274 |
| PCB177 | 52663-70-4 | pg/g | 528 | 895 | 37.7 | 939 | 682 | 218 | 696 | 1300 | 273 | 494 | 4840 | 175 | 225 | 1160 |
| PCB178 | 52663-67-9 | pg/g | 192 | 364 | 21.9 | 360 | 248 | 88.8 | 276 | 470 | 103 | 197 | 2660 | 63.7 | 88.5 | 427 |
| PCB179 | 52663-64-6 | pg/g | 409 | 743 | 36.8 | 803 | 554 | 172 | 600 | 1030 | 213 | 422 | 2840 | 141 | 173 | 940 |
| PCB180 | 35065-29-3 | pg/g | 1760 | 3010 | 142 | 3210 | 2320 | 719 | 2550 | 4420 | 994 | 1800 | 4950 | 612 | 751 | 4030 |
| PCB181 | 74472-47-2 | pg/g | 8.75 | 12.1 | 5 U | 13.4 | 10.7 | 4.9 U | 7.5 | 11.7 | 4.9 U | 4.96 U | 22.1 | 4.95 U | 5.03 U | 25.1 |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C600-B | LW3-C600-C | LW3-C600-D | LW3-C601-B1 | LW3-C601-B2 | LW3-C602-B | LW3-C602-C | LW3-C602-D | LW3-C604-B | LW3-C604-C | LW3-C604-D | LW3-C605-B | LW3-C605-C | LW3-C605-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 151 | 151 - 276 | 276 - 311 | 30 - 152 | 30 - 156 | 30 - 151 | 151 - 273 | 273 - 318 | 30 - 151 | 151 - 273 | 273 - 343 | 30 - 151 | 151 - 273 | 273 - 341 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 1130 | 2050 | 112 | 2150 | 1520 | 492 | 1630 | 2830 | 614 | 1150 | 10200 | 394 | 498 | 2560 |
| PCB183 | 52663-69-1 | pg/g | 436 | 811 | 40.7 | 863 | 602 | 177 | 656 | 1120 | 238 | 462 | 1170 | 151 | 186 | 1050 |
| PCB184 | 74472-48-3 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 16 | 4.95 U | 5.03 U | 4.89 U |
| PCB185 | 52712-05-7 | pg/g | 89.8 | 137 | 5 U | 171 | 120 | 37.7 | 120 | 221 | 47 | 84.3 | 212 | 31.9 | 37.4 | 201 |
| PCB186 | 74472-49-4 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB188 | 74487-85-7 | pg/g | 4.99 U | 9.44 | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 5.68 | 4.9 U | 4.96 U | 25 | 4.95 U | 5.03 U | 4.89 U |
| PCB189 | 39635-31-9 | pg/g | 29.5 | 52.2 | 2.81 J | 44.3 | 32.4 | 10.6 | 37.6 | 59.9 | 15.9 | 27.2 | 89.1 | 10.1 | 11.7 | 56.8 |
| PCB190 | 41411-64-7 | pg/g | 144 | 255 | 12.7 | 258 | 186 | 57.5 | 195 | 339 | 82.5 | 139 | 380 | 52.5 | 59.7 | 314 |
| PCB191 | 74472-50-7 | pg/g | 31.2 | 45.5 | 5 U | 50.9 | 35.9 | 10.9 | 42 | 70.7 | 14.6 | 29.3 | 79.6 | 9.46 | 12.3 | 65.4 |
| PCB192 | 74472-51-8 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB193 | 69782-91-8 | pg/g | 95.2 | 154 | 7.01 | 168 | 119 | 38.7 | 124 | 227 | 57.3 | 90.2 | 847 | 32.4 | 40.8 | 203 |
| PCB194 | 35694-08-7 | pg/g | 524 | 753 | 35.9 | 770 | 593 | 172 | 577 | 1010 | 272 | 414 | 3070 | 146 | 185 | 908 |
| PCB195 | 52663-78-2 | pg/g | 215 | 308 | 12.9 | 331 | 256 | 71.1 | 241 | 446 | 120 | 166 | 1240 | 60.8 | 75.1 | 444 |
| PCB196 & 203 | PCB196_203 | pg/g | 590 | 896 | 51 | 880 | 654 | 217 | 864 | 1400 | 299 | 566 | 3580 | 156 | 225 | 1310 |
| PCB197 | 33091-17-7 | pg/g | 19.6 | 29.5 | 5 U | 29.5 | 21 | 5.85 | 24.7 | 44.6 | 10.2 | 17 | 211 | 5.45 | 6.9 | 40.6 |
| PCB198 | 68194-17-2 | pg/g | 30.6 | 46.2 | 5 U | 40.7 | 27.9 | 11.5 | 37.8 | 54.5 | 13 | 28 | 217 | 8.17 | 11.9 | 69.2 |
| PCB199 | 52663-75-9 | pg/g | 605 | 867 | 55.3 | 846 | 623 | 227 | 840 | 1340 | 294 | 556 | 4480 | 158 | 230 | 1230 |
| PCB200 | 52663-73-7 | pg/g | 75.1 | 103 | 6.89 | 111 | 81.3 | 28.1 | 104 | 172 | 37.5 | 67.9 | 396 | 20.1 | 28.7 | 158 |
| PCB201 | 40186-71-8 | pg/g | 67.2 | 110 | 5.87 | 110 | 83.1 | 26.5 | 88 | 160 | 37.2 | 61.5 | 774 | 21.2 | 27.1 | 147 |
| PCB202 | 2136-99-4 | pg/g | 97.3 | 192 | 11.4 | 162 | 118 | 42.3 | 133 | 236 | 55.1 | 93.8 | 964 | 34.9 | 46 | 215 |
| PCB204 | 74472-52-9 | pg/g | 4.99 U | 4.99 U | 5 U | 4.91 U | 4.92 U | 4.9 U | 4.99 U | 4.99 U | 4.9 U | 4.96 U | 4.96 U | 4.95 U | 5.03 U | 4.89 U |
| PCB205 | 74472-53-0 | pg/g | 25.5 | 32.9 | 5 U | 34.7 | 26.4 | 7.69 | 26.8 | 45.9 | 14.3 | 18.2 | 141 | 7.49 | 9.06 | 41.2 |
| PCB206 | 40186-72-9 | pg/g | 251 | 760 | 50.6 | 337 | 248 | 114 | 275 | 456 | 113 | 242 | 1090 | 103 | 116 | 371 |
| PCB207 | 52663-79-3 | pg/g | 31.7 | 62.1 | 5.01 | 40 | 31.8 | 12.8 | 35 | 59.8 | 14.2 | 25.8 | 160 | 9.59 | 13.5 | 50.6 |
| PCB208 | 52663-77-1 | pg/g | 66.7 | 259 | 18.6 | 92.6 | 68.3 | 36.7 | 78.7 | 129 | 30.7 | 73.3 | 221 | 31.6 | 36.9 | 112 |
| PCB209 | 2051-24-3 | pg/g | 140 | 803 | 53.4 | 221 | 168 | 121 | 258 | 464 | 97.6 | 254 | 450 | 120 | 111 | 424 |
| Total PCB Congeners | 1336-36-3 | pg/g | 120000 T | 496000 T | 41400 JT | 132000 T | 111000 T | 27100 T | 121000 T | 162000 T | 30200 JT | 62700 T | 182000 T | 25600 T | 22600 JT | 143000 T |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 2.65 T | 3.88 T | 0.378 JT | 2.32 T | 1.86 T | 0.801 T | 2.41 T | 3.52 T | 0.735 JT | 1.52 T | 2.87 T | 0.813 T | 0.687 JT | 3.45 T |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 137 T | 572 T | 28.5 T | 103 T | 84.8 T | 43.3 T | 187 T | 242 T | 34.2 T | 81.6 T | 129 T | 42.2 T | 50.7 T | 193 T |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 3260 T | 27800 T | 2930 T | 1830 T | 1740 T | 544 T | 4270 T | 2620 T | 410 T | 1190 T | 1710 T | 528 T | 552 T | 2250 T |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 19500 T | 143000 T | 13200 T | 15000 T | 14300 T | 2550 T | 19800 T | 18100 T | 2540 T | 6180 T | 13800 T | 2560 T | 2020 T | 15300 T |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 42200 T | 193000 T | 15700 JT | 39700 T | 36800 T | 7620 T | 37100 T | 46000 T | 9100 JT | 16100 T | 37800 T | 7600 T | 4990 JT | 39100 T |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 31600 T | 85700 T | 6650 JT | 34200 T | 28400 T | 7430 T | 28600 T | 41700 T | 7870 T | 17300 T | 35800 T | 7060 T | 5990 T | 37400 T |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 13700 T | 29200 T | 1980 T | 23900 T | 17400 T | 4970 T | 17700 T | 29700 T | 5080 T | 12300 T | 41400 T | 4490 T | 4910 T | 27500 T |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 6950 T | 12200 T | 577 JT | 12900 T | 9140 T | 2870 T | 9880 T | 17400 T | 3740 T | 6970 T | 34800 T | 2390 T | 2970 T | 15800 T |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 2250 T | 3340 T | 179 T | 3310 T | 2480 T | 809 T | 2940 T | 4910 T | 1150 T | 1990 T | 15100 T | 618 T | 845 T | 4560 T |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 349 T | 1080 T | 74.2 T | 470 T | 348 T | 164 T | 389 T | 645 T | 158 T | 341 T | 1470 T | 144 T | 166 T | 534 T |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.73 U | 14 NJ | 0.18 U | 4.5 NJ | 1.4 UT | 1.5 NJ | 3.2 NJ | 2.3 U | 1.2 NJ | 2.1 NJ | 7.2 NJ | 0.44 U | 0.67 NJ | 2.8 NJ |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.59 U | 2 U | 0.13 U | 0.75 U | 0.046 UT | 0.046 U | 0.62 U | 0.47 U | 0.2 U | 0.59 U | 1.5 U | 0.2 U | 0.046 U | 0.7 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 2.9 J | 8.9 NJ | 0.4 NJ | 3.2 | 3.2 T | 0.84 U | 2 J | 4.3 | 0.92 J | 1.8 U | 5.4 | 0.72 U | 0.7 U | 2.5 |
| 4,4'-DDD | 72-54-8 | ug/kg | 2.5 | 15 | 0.69 | 4.5 | 4.2 T | 2.4 | 2.1 | 4.6 | 2 | 1.8 | 4.5 | 1.4 | 2.8 | 3.1 |
| 4,4'-DDE | 72-55-9 | ug/kg | 4.7 J | 17 J | 0.88 J | 6 J | 6.3 JT | 3.9 | 5 J | 10 | 3.3 | 4.8 J | 9.2 J | 3.1 | 3.9 | 7.3 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 3.4 J | 5.1 U | 0.37 U | 29 | 4.7 T | 1.9 J | 3 J | 6 | 0.71 NJ | 1.8 NJ | 6.3 | 1.5 J | 1.7 J | 4.1 J |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.6 U | 0.12 U | 0.18 U | 0.12 UT | 0.12 U | 0.12 U | 0.13 U | 0.17 NJ | 0.12 U | 0.12 U | 0.12 U | 0.2 U | 0.13 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.2 U | 0.85 U | 0.13 U | 0.73 U | 0.18 UT | 0.21 | 0.19 U | 0.7 NJ | 0.23 J | 0.24 U | 0.7 NJ | 0.21 U | 0.15 NJ | 0.38 |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.49 U | 0.097 U | 0.2 | 0.29 JT | 0.097 U | 0.19 U | 0.098 U | 0.097 U | 0.097 U | 0.2 U | 0.097 U | 0.097 U | 0.21 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.3 U | 1.8 U | 0.13 U | 0.31 U | 0.31 UT | 0.2 U | 1.1 NJ | 0.86 U | 0.2 U | 0.19 U | 2.2 NJ | 0.2 U | 0.031 U | 0.21 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.59 U | 0.7 U | 0.14 U | 0.23 U | 0.21 UT | 0.14 U | 0.69 J | 1.1 J | 0.14 U | 0.19 U | 0.65 U | 0.29 U | 0.27 | 0.74 J |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.2 U | 0.85 U | 0.13 U | 0.031 U | 0.11 UT | 0.29 U | 0.28 U | 0.22 NJ | 0.27 U | 0.19 U | 0.2 U | 0.083 J | 0.42 | 0.23 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 1.5 U | 3.9 U | 0.16 U | 2.2 U | 1.7 UT | 0.69 U | 1.6 U | 3.1 U | 0.55 U | 1.4 U | 3.6 | 0.59 U | 0.66 U | 1.7 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.28 U | 0.8 U | 0.11 U | 0.18 U | 0.18 UT | 0.11 U | 0.11 U | 0.12 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.12 U |
| Dieldrin | 60-57-1 | ug/kg | 0.52 U | 0.85 U | 0.13 U | 0.29 U | 0.31 UT | 0.25 U | 0.57 U | 0.33 U | 0.34 J | 0.46 J | 0.26 U | 0.43 | 0.03 U | 0.25 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.29 U | 0.058 U | 0.058 U | 0.058 UT | 0.37 U | 0.2 U | 0.19 U | 0.3 U | 0.058 U | 0.2 U | 0.26 U | 0.49 U | 0.21 U |
| Endrin | 72-20-8 | ug/kg | 0.37 U | 1.6 NJ | 0.071 U | 0.42 U | 0.071 UT | 0.071 U | 0.29 U | 0.57 U | 0.082 U | 0.23 U | 0.59 U | 0.071 U | 0.071 U | 0.28 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.75 J | 0.85 U | 0.14 U | 0.042 U | 0.042 UT | 0.14 U | 0.51 U | 1.2 U | 0.12 NJ | 0.64 J | 1.7 J | 0.2 U | 0.2 U | 0.21 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.029 U | 1.8 U | 0.13 U | 0.51 U | 0.18 UT | 0.19 U | 0.34 U | 0.23 U | 0.2 U | 0.32 U | 0.21 U | 0.2 U | 0.33 J | 0.38 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.17 U | 1.3 U | 0.062 U | 0.25 U | 0.062 UT | 0.2 U | 0.25 J | 0.43 J | 0.062 U | 0.19 U | 0.35 | 0.2 U | 0.062 U | 0.21 U |
| Heptachlor | 76-44-8 | ug/kg | 1 J | 0.94 U | 0.13 U | 0.6 U | 0.71 JT | 0.13 U | 0.19 U | 0.21 U | 0.08 U | 1.1 NJ | 0.2 U | 0.12 U | 0.076 U | 0.21 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.98 NJ | 3.5 NJ | 0.22 U | 2.4 NJ | 2.8 JT | 0.25 NJ | 0.71 U | 1.3 NJ | 0.28 NJ | 0.43 U | 1.3 NJ | 0.23 NJ | 0.2 U | 0.41 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.61 U | 1.3 U | 0.075 U | 1 J | 1.9 JT | 0.5 U | 0.71 U | 2 U | 0.36 U | 0.075 U | 2.2 U | 0.6 U | 0.39 U | 1.1 U |
| Mirex | 2385-85-5 | ug/kg | 0.67 U | 0.6 U | 0.25 U | 0.44 U | 0.2 UT | 0.12 U | 0.61 U | 1.3 U | 0.12 UJ | 0.12 U | 1.3 U | 0.12 U | 0.12 U | 0.13 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 U | 0.74 J | 0.061 U | 0.061 U | 0.23 UT | 0.061 U | 0.24 U | 0.35 U | 0.081 U | 0.23 U | 0.39 U | 0.061 U | 0.17 U | 0.49 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 1.9 JT | 4.6 JT | 0.16 UT | 2.2 UT | 1.7 UT | 1.1 JT | 1.7 JT | 3.4 JT | 0.94 T | 0.2 T | 6.8 T | 0.85 JT | 1.6 JT | 1.6 T |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C600-B | LW3-C600-C | LW3-C600-D | LW3-C601-B1 | LW3-C601-B2 | LW3-C602-B | LW3-C602-C | LW3-C602-D | LW3-C604-B | LW3-C604-C | LW3-C604-D | LW3-C605-B | LW3-C605-C | LW3-C605-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 151 | 151 - 276 | 276 - 311 | 30 - 152 | 30 - 156 | 30 - 151 | 151 - 273 | 273 - 318 | 30 - 151 | 151 - 273 | 273 - 343 | 30 - 151 | 151 - 273 | 273 - 341 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.3 UT | 1.8 UT | 0.13 UT | 0.73 UT | 0.31 UT | 0.21 T | 1.1 JT | 0.7 JT | 0.23 JT | 0.24 UT | 2.9 JT | 0.26 UT | 0.15 JT | 0.38 T |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 2.5 T | 29 JT | 0.69 T | 9 JT | 4.2 T | 3.9 JT | 5.3 JT | 4.6 T | 3.2 JT | 3.9 JT | 12 JT | 1.4 T | 3.5 JT | 5.9 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 14 JT | 55 JT | 2 JT | 47 JT | 18 JT | 9.7 JT | 15 JT | 25 T | 8.1 JT | 11 JT | 33 JT | 6 JT | 9.1 JT | 20 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 4.7 JT | 17 JT | 0.88 JT | 6 JT | 6.3 JT | 3.9 T | 5 JT | 10 T | 3.3 T | 4.8 JT | 9.2 JT | 3.1 T | 3.9 T | 7.3 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 6.3 JT | 8.9 JT | 0.4 JT | 32 T | 7.9 T | 1.9 JT | 5 JT | 10 T | 1.6 JT | 1.8 JT | 12 T | 1.5 JT | 1.7 JT | 6.6 JT |
| Toxaphene | 8001-35-2 | ug/kg | 54 U | 380 U | 18 U | 54 U | 52 UT | 20 U | 49 U | 110 U | 28 U | 51 U | 130 U | 11 U | 17 U | 47 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 1.7 J | 3.9 J | 0.13 U | 0.22 U | 0.8 UT | 0.73 | 1.5 | 3.2 | 0.73 | 0.38 U | 3.2 | 0.58 J | 0.75 | 1.6 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.17 J | 0.85 U | 0.038 U | 0.27 U | 0.29 UT | 0.36 J | 0.2 J | 0.34 U | 0.21 | 0.2 | 0.29 U | 0.19 J | 0.41 J | 0.31 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 180 J | 350 J | 8.2 U | 170 J | 148 JT | 150 J | 240 J | 160 J | 91.5 JT | 200 J | 160 J | 83 J | 170 J | 220 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 150 J | 260 J | 7.4 U | 140 J | 113 JT | 120 J | 210 J | 140 J | 74 JT | 160 J | 140 J | 66 J | 130 J | 190 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 500 J | 640 J | 29 U | 430 J | 410 JT | 510 J | 660 J | 540 J | 385 JT | 640 J | 520 J | 400 J | 590 J | 690 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 310 J | 380 J | 17 U | 290 J | 260 JT | 300 J | 460 J | 390 J | 225 JT | 380 J | 350 J | 220 J | 350 J | 450 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 680 JA | 990 JA | 29 UA | 600 JA | 558 JA | 660 JA | 900 JA | 700 JA | 477 JA | 840 JA | 680 JA | 483 JA | 760 JA | 910 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 460 JA | 640 JA | 17 UA | 430 JA | 373 JA | 420 JA | 670 JA | 530 JA | 299 JA | 540 JA | 490 JA | 286 JA | 480 JA | 640 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.42 U | 0.35 U | 0.27 U | 0.36 U | 0.35 UT | 0.42 U | 0.4 U | 2.6 NJ | 0.41 U | 0.39 U | 0.39 U | 0.42 U | 0.41 U | 0.41 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.34 U | 0.29 U | 0.22 U | 0.29 U | 0.28 UT | 0.34 U | 0.32 U | 1.2 U | 0.33 U | 0.32 U | 0.36 U | 0.34 U | 0.33 U | 0.34 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 3.7 U | 0.92 U | 0.7 U | 0.93 U | 0.91 UT | 1.1 U | 1.1 U | 13 NJ | 1.1 U | 1.1 U | 4.6 U | 1.1 U | 2.2 U | 6 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.69 J | 0.66 J | 0.14 U | 0.19 U | 0.19 UT | 0.22 U | 0.36 J | 0.67 U | 0.22 U | 0.39 J | 0.29 U | 0.22 U | 0.29 U | 0.23 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 11 U | 10 U | 1 U | 5 U | 5 UT | 5 U | 5 U | 1 U | 1.1 U | 10 U | 1 U | 2 U | 5 U | 1.1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | R | R | 28 UJ | 28 JT | R | R | 5.5 U | R | R | 5.5 U | R | R | 5.6 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 180 U | 170 U | 17 U | 85 U | 85 UT | 85 U | 85 U | 17 U | 18 U | 170 U | 17 U | 34 U | 85 U | 18 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 21 U | 20 U | 2 U | 10 U | 10 UT | 10 U | 10 U | 2 U | 2.1 U | 20 U | 2 U | 4 U | 10 U | 2.1 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 16 U | 15 U | 1.5 U | 7.5 U | 7.5 UT | 7.5 U | 7.5 U | 1.5 U | 1.6 U | 15 U | 1.5 U | 3 U | 7.5 U | 1.6 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 16 U | 15 U | 1.5 U | 7.5 U | 7.5 UT | 7.5 U | 7.5 U | 1.5 U | 1.6 U | 15 U | 1.5 U | 3 U | 7.5 U | 1.6 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 15 U | 14 U | 1.4 U | 7 U | 7 UT | 7 U | 7 U | 1.4 U | 1.5 U | 14 U | 1.4 U | 2.8 U | 7 U | 1.5 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 15 U | 14 U | 1.4 U | 7 U | 7 UT | 7 U | 7 U | 1.4 U | 1.5 U | 14 U | 1.4 U | 2.8 U | 7 U | 1.5 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 17 J | 32 J | 1.7 J | 22 J | 36 JT | 11 J | 22 J | 49 | 8.1 J | 26 J | 43 | 9 J | 13 J | 31 |
| 4-Nitrophenol | 100-02-7 | ug/kg | 190 U | 180 U | 18 U | 90 U | 90 UT | 90 U | 90 U | 18 U | 19 U | 180 U | 18 U | 36 U | 90 U | 19 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.32 U | 3 J | 0.21 U | 11 NJ | 29 T | 0.32 U | 0.3 U | 9 NJ | 6.1 U | 2.8 J | 6.3 U | 3.3 U | 3.3 J | 5.8 U |
| Phenol | 108-95-2 | ug/kg | 21 U | 20 U | 2 U | 10 U | 16 JT | 10 U | 10 U | 2 U | 20 J | 20 U | 15 J | 4 U | 10 U | 2.1 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 83 J | 70 U | 7 U | 77 J | 81 JT | 49 J | 120 | 59 | 40 | 290 | 41 | 52 | 90 J | 57 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 33 U | 32 U | 3.2 U | 16 U | 16 UT | 16 U | 16 U | 3.2 U | 8.2 J | 32 U | 3.2 U | 6.4 U | 16 U | 3.3 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 80 U | 79 U | 7.9 U | 40 U | 40 UT | 40 U | 40 U | 13 | 23 | 79 U | 10 | 20 J | 40 U | 16 |
| Diethyl phthalate | 84-66-2 | ug/kg | 14 U | 13 U | 1.3 U | 6.5 U | 6.5 UT | 6.5 U | 7.1 J | 1.3 U | 2.8 J | 13 U | 1.3 U | 3.5 J | 6.5 U | 1.4 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 11 U | 10 U | 1 U | 5 U | 5 UT | 5 U | 5 U | 1 U | 1.1 U | 10 U | 1 U | 2 U | 5 U | 1.1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 18 U | 17 U | 1.7 U | 8.5 U | 8.5 UT | 8.5 U | 8.5 U | 1.7 U | 1.8 U | 17 U | 1.7 U | 3.4 U | 8.5 U | 1.8 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 27 U | 26 U | 2.6 U | 13 U | 13 UT | 13 U | 13 U | 2.6 U | 2.7 U | 26 U | 2.6 U | 5.2 U | 13 U | 2.7 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 30 U | 29 U | 2.9 U | 15 U | 15 UT | 15 U | 15 U | 2.9 U | 3 U | 29 U | 2.9 U | 5.8 U | 15 U | 3 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 31 U | 30 U | 3 U | 15 U | 15 UT | 15 U | 15 U | 3 U | 3.1 U | 30 U | 3 U | 6 U | 15 U | 3.1 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 30 U | 29 U | 2.9 U | 15 U | 15 UT | 15 U | 15 U | 2.9 U | 3 U | 29 U | 2.9 U | 5.8 U | 15 U | 3 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 16 U | 15 U | 1.5 U | 7.5 U | 7.5 UT | 7.5 U | 7.5 U | 1.5 U | 1.6 U | 15 U | 1.5 U | 3 U | 7.5 U | 1.6 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 21 U | 20 U | 2 U | 10 U | 10 UT | 10 U | 10 U | 2 U | 2.1 U | 20 U | 2 U | 4 U | 10 U | 2.1 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 17 U | 16 U | 1.6 U | 8 U | 8 UT | 8 U | 8 U | 1.6 U | 1.7 U | 16 U | 1.6 U | 3.2 U | 8 U | 1.7 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 33 U | 32 U | 3.2 U | 16 U | 16 UT | 16 U | 16 U | 3.2 U | 3.3 U | 32 U | 3.2 U | 6.4 U | 16 U | 3.3 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 38 U | 37 U | 3.7 UJ | 19 U | 19 UT | 19 U | 19 U | 3.7 U | R | 37 U | 3.7 U | 7.4 U | 19 U | 3.8 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 26 U | 25 U | 2.5 U | 13 U | 13 UT | 13 U | 13 U | 2.5 U | R | 25 U | 2.5 U | 5 U | 13 U | 2.6 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 17 U | 16 U | 1.6 U | 8 U | 8 UT | 8 U | 8 U | 1.6 U | 1.7 U | 16 U | 1.6 U | 3.2 U | 8 U | 1.7 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 20 U | 19 U | 1.9 U | 9.5 U | 9.5 UT | 9.5 U | 9.5 U | 1.9 U | R | 19 U | 1.9 U | 3.8 U | 9.5 U | 2 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 15 U | 14 U | 1.4 U | 7 U | 7 UT | 7 U | 7 U | 1.4 U | 1.5 U | 14 U | 1.4 U | 2.8 U | 7 U | 1.5 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 19 U | 18 U | 1.8 U | 9 U | 9 UT | 9 U | 9 U | 1.8 U | 1.9 U | 18 U | 1.8 U | 3.6 U | 9 U | 1.9 U |
| Aniline | 62-53-3 | ug/kg | 16 U | 15 U | 1.5 UJ | 7.5 U | 7.5 UT | 7.5 U | 7.5 U | 1.5 U | R | 15 U | 1.5 U | 3 U | 7.5 U | 1.6 U |
| Azobenzene | 103-33-3 | ug/kg | 12 U | 11 U | 1.1 U | 5.5 U | 5.5 UT | 5.5 U | 5.5 U | 1.1 U | 1.2 UJ | 11 U | 1.1 U | 2.2 U | 5.5 U | 1.2 U |
| Benzoic acid | 65-85-0 | ug/kg | 970 U | 960 U | 96 U | 480 U | 480 UT | 500 J | 500 J | R | 130 J | 960 U | R | 260 J | 480 U | 120 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 22 U | 21 U | 2.1 U | 11 U | 11 UT | 15 J | 11 U | 2.1 U | 8 J | 24 J | 2.1 U | 7.8 J | 11 U | 2.2 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 16 U | 15 U | 1.5 U | 7.5 U | 7.5 UT | 7.5 U | 7.5 U | 1.5 U | 1.6 U | 15 U | 1.5 U | 3 U | 7.5 U | 1.6 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 20 U | 19 U | 1.9 U | 9.5 U | 9.5 UT | 9.5 U | 9.5 U | 1.9 U | 2 U | 19 U | 1.9 U | 3.8 U | 9.5 U | 2 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 27 U | 26 U | 2.6 U | 13 U | 13 UT | 13 U | 13 U | 2.6 U | 2.7 U | 26 U | 2.6 U | 5.2 U | 13 U | 2.7 U |
| Carbazole | 86-74-8 | ug/kg | 16 J | 13 U | 1.3 U | 19 J | 20 JT | 6.5 U | 9.5 J | 1.3 U | 4.2 J | 13 U | 6 J | 4.4 J | 9 J | 1.4 U |
| Dibenzofuran | 132-64-9 | ug/kg | 7.5 | 30 | 0.59 U | 67 | 80 T | 3.9 | 7.3 | 8.1 | 3 | 8 | 7.5 | 2.3 J | 6.6 | 3.8 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.2 U | 0.85 U | 0.078 U | 0.34 | 0.24 JT | 0.068 U | 0.19 U | 0.3 J | 0.068 UJ | 0.2 U | 1.2 U | 0.2 U | 0.068 U | 0.43 J |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C600-B | LW3-C600-C | LW3-C600-D | LW3-C601-B1 | LW3-C601-B2 | LW3-C602-B | LW3-C602-C | LW3-C602-D | LW3-C604-B | LW3-C604-C | LW3-C604-D | LW3-C605-B | LW3-C605-C | LW3-C605-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 151 | 151 - 276 | 276 - 311 | 30 - 152 | 30 - 156 | 30 - 151 | 151 - 273 | 273 - 318 | 30 - 151 | 151 - 273 | 273 - 343 | 30 - 151 | 151 - 273 | 273 - 341 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.33 U | 0.7 U | 0.14 U | 0.14 U | 0.14 UT | 0.14 U | 0.14 U | 2.5 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.34 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 300 U | 290 U | 29 U | 150 U | 150 UT | 150 U | 150 U | 29 U | 30 U | 290 U | 29 U | 58 U | 150 U | 30 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.8 U | 0.16 U | 0.16 U | 0.16 UT | 0.16 U | 0.16 U | 0.17 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.17 U |
| Isophorone | 78-59-1 | ug/kg | 11 U | 10 U | 1 U | 5 U | 5 UT | 5 U | 5 U | 1 U | 1.1 U | 10 U | 1 U | 2 U | 5 U | 1.1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 23 U | 22 U | 2.2 U | 11 U | 11 UT | 11 U | 11 U | 2.2 U | 2.3 U | 22 U | 2.2 U | 4.4 U | 11 U | 2.3 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 62 U | 61 U | 6.1 UJ | 31 U | 31 UT | 31 U | 31 U | 6.1 U | 6.2 UJ | 61 U | 6.1 U | 13 U | 31 U | 6.2 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 17 U | 16 U | 1.6 U | 8 U | 8 UT | 8 U | 8 U | 1.6 U | 1.7 U | 16 U | 1.6 U | 3.2 U | 8 U | 1.7 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 25 U | 24 U | 2.4 U | 12 U | 12 UT | 12 U | 12 U | 2.4 U | 2.5 U | 24 U | 2.4 U | 4.8 U | 12 U | 2.5 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C606-B | LW3-C606-C | LW3-C608-B | LW3-C609-B | LW3-C609-C | LW3-C609-D | LW3-C610-B | LW3-C613-B | LW3-C613-C | LW3-C613-E | LW3-C614-B | LW3-C614-C | LW3-C614-D | LW3-C615-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 128 | 128 - 240 | 30 - 152 | 30 - 151 | 151 - 273 | 273 - 311 | 30 - 151 | 30 - 153 | 153 - 180 | 278 - 365 | 30 - 152 | 152 - 274 | 274 - 343 | 30 - 124 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 7.1 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 5 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 13 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.6 UJ | 2.7 UJ | 8.6 NJ | 20 NJ | 1.3 U | 1.3 U | 69 J | 27 J | 7.4 J | 5 U | 3.3 J | 8.9 NJ | 16 NJ | 4.3 NJ |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 5 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ |
| Aroclor 1254 | 11097-69-1 | ug/kg | 5.5 J | 18 J | 31 J | 95 J | 62 J | 1.3 U | 94 J | 41 J | 37 UJ | 71 U | 14 J | 43 J | 57 J | 28 J |
| Aroclor 1260 | 11096-82-5 | ug/kg | 5.7 J | 14 J | 29 J | 54 J | 80 J | 1.3 U | 58 J | 33 J | 62 J | 77 J | 15 J | 36 J | 47 J | 17 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 5 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 U | 1.3 U | 14 | 1.3 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 5 U | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ |
| Aroclors | 12767-79-2 | ug/kg | 11.2 JT | 32 JT | 68.6 JT | 169 JT | 156 JT | 1.3 UT | 221 JT | 101 JT | 69.4 JT | 77 JT | 32.3 JT | 87.9 JT | 120 JT | 49.3 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.87 | 2.07 | 1.63 | 1.9 | 2.04 | 2.4 | 1.98 | 1.52 | 1.66 | | 1.82 | 1.54 | 1.64 | 1.47 T |
| Total organic carbon | TOC | percent | 1.22 | 1.55 | 2.06 | 2.19 T | 2.27 | 0.26 | 2.03 | 1.73 | 2.1 | 2.15 | 1.86 | 1.82 | 1.59 | 2.25 T |
| Total solids | TSO | percent | 59 | 58.5 | 51.8 | 55.4 | 59.6 | 72.7 | 51.5 | 53.1 | 64.4 | 53.9 | 50.7 | 54.4 | 59.1 | 52.4 T |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 0.223 JA | 0.578 JA | 1.73 JA | 1.2 JA | 0.711 JA | 0.00102 JA | | | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 0 | 0.09 | 1.98 | 0.36 | 0 | 0.09 | 0 | 0.25 | | 0 | 0.11 | 0 | 1.37 T |
| Fine gravel | GS_FG | percent | 0.15 | 0.2 | 0.92 | 1.94 | 1.32 | 0 | 0.23 | 0.2 | 0.34 | | 0.16 | 0.18 | 0.04 | 1.19 T |
| Very coarse sand | GS_VCS | percent | 0.31 | 0.59 | 1.55 | 2.03 | 1.97 | 0.03 | 0.29 | 0.35 | 0.77 | | 0.23 | 0.15 | 0.19 | 0.963 T |
| Coarse sand | GS_CS | percent | 0.69 | 2.47 | 1.38 | 1.54 | 1.06 | 0.17 | 0.28 | 0.32 | 1.52 | | 0.26 | 0.53 | 0.26 | 1.55 T |
| Medium sand | GS_MS | percent | 1.19 | 4.2 | 1.33 | 2.07 | 1.07 | 8.24 | 0.56 | 1.04 | 4.71 | | 1.7 | 1.56 | 2.41 | 7.33 T |
| Fine sand | GS_FS | percent | 22 | 2.54 | 1.85 | 3.97 | 2.91 | 41.3 | 1.75 | 5.29 | 57.5 | | 3.89 | 2.64 | 11.4 | 7.75 T |
| Very fine sand | GS_VFS | percent | 29.5 | 20.5 | 6.85 | 9.91 | 9.66 | 28.5 | 8.71 | 14.2 | 20.5 | | 13.2 | 9.88 | 13.5 | 12.1 T |
| Fines | GS_FINES | percent | 39.3 T | 70.5 T | 90.5 T | 77.7 T | 76.6 T | 15.6 T | 89 T | 82 T | 16 T | | 79.9 T | 81.1 T | 70.2 T | 70.7 T |
| Coarse silt | GS_CSILT | percent | 11.1 | 30.5 | 24.1 | 19.4 | 20.6 | 5.15 | 20.4 | 21.6 | 5.16 | | 21.2 | 10 | 13.9 | 15.2 T |
| Medium silt | GS_MSILT | percent | 10.6 | 13.4 | 22.2 | 19 | 18.8 | 3.92 | 25.9 | 25.3 | 1.42 | | 22.2 | 23.5 | 18.7 | 21.1 T |
| Fine silt | GS_FSILT | percent | 6.55 | 10.5 | 16.6 | 15.1 | 13.7 | 1.79 | 16.4 | 8.44 | 2.9 | | 12.7 | 21 | 15.6 | 11.8 T |
| Very fine silt | GS_VFSILT | percent | 5.14 | 7.14 | 9.92 | 11.9 | 10.7 | 1.49 | 9.82 | 10.2 | 2.7 | | 7.57 | 7.44 | 4.5 | 7.13 T |
| 8-9 Phi clay | GS_CCLAY | percent | 2.68 | 3.64 | 6.79 | 7.02 | 5.64 | 0.99 | 9.66 | 4.94 | 0.91 | | 6.28 | 6.21 | 4.45 | 4.04 T |
| >9 Phi clay | GS_MFCLAY | percent | 3.24 | 5.36 | 10.9 | 5.31 | 7.13 | 2.27 | 6.82 | 11.5 | 2.91 | | 9.99 | 12.9 | 13 | 11.4 T |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 22100 | 26100 | 31800 | 27000 T | 28200 | 17900 | 26300 | 28600 | 21900 | 25800 | 27000 | 27700 | 25200 | 25300 T |
| Antimony | 7440-36-0 | mg/kg | 0.19 J | 0.25 J | 0.63 J | 0.325 JT | 0.49 J | 0.17 J | 0.3 J | 0.3 J | 0.2 J | 0.57 J | 0.24 J | 0.29 J | 0.3 J | 0.285 JT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C606-B | LW3-C606-C | LW3-C608-B | LW3-C609-B | LW3-C609-C | LW3-C609-D | LW3-C610-B | LW3-C613-B | LW3-C613-C | LW3-C613-E | LW3-C614-B | LW3-C614-C | LW3-C614-D | LW3-C615-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 128 | 128 - 240 | 30 - 152 | 30 - 151 | 151 - 273 | 273 - 311 | 30 - 151 | 30 - 153 | 153 - 180 | 278 - 365 | 30 - 152 | 152 - 274 | 274 - 343 | 30 - 124 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 2.29 | 2.8 | 4.95 | 3.12 T | 3.62 | 1.54 | 3.18 | 3.75 | 2.39 | 4.96 | 3.16 | 3.84 | 3.96 | 4.05 T |
| Cadmium | 7440-43-9 | mg/kg | 0.217 | 0.313 | 0.58 | 0.54 T | 0.669 | 0.105 | 0.53 | 0.468 | 0.197 | 1.28 J | 0.274 | 0.5 | 0.565 | 0.344 T |
| Chromium | 7440-47-3 | mg/kg | 19 | 24.3 | 30.7 | 23.8 T | 24.8 | 15.5 | 23.5 | 29.8 | 21.3 | 33 | 27.8 | 30.6 | 28.7 | 29.7 T |
| Copper | 7440-50-8 | mg/kg | 28.1 | 42.9 | 50.7 | 42.3 T | 44.3 | 18.6 | 42.8 | 48.1 | 29.9 | 46.5 | 44.4 | 53.4 | 45.8 | 45.2 T |
| Lead | 7439-92-1 | mg/kg | 10.8 | 19.2 | 30.9 | 23.7 T | 26.8 | 5.05 | 28.3 | 25.8 | 21.3 | 40.8 | 16.1 | 28.9 | 31.2 | 20.9 T |
| Mercury | 7439-97-6 | mg/kg | 0.043 | 0.071 | 0.092 | 0.27 | 0.261 | 0.022 | 0.115 | 0.112 | 0.102 | 0.661 J | 0.127 | 0.107 | 0.15 | 0.107 T |
| Nickel | 7440-02-0 | mg/kg | 21.6 | 26 | 26.1 | 24.2 T | 24.8 | 20.8 | 24.6 | 27.4 | 24.6 | 26.4 | 25.7 | 28 | 28.7 | 27.3 T |
| Silver | 7440-22-4 | mg/kg | 0.13 J | 0.26 J | 0.746 | 0.46 JT | 0.59 J | 0.08 J | 0.32 J | 0.33 | 0.12 | 0.62 | 0.26 | 0.41 | 0.3 | 0.3 T |
| Zinc | 7440-66-6 | mg/kg | 88.5 | 109 | 157 | 146 T | 155 | 61.6 | 204 | 171 | 110 | 230 | 99.2 | 131 | 162 | 118 T |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 7.6 | 14 | 180 | 580 | 110 | 0.6 J | 22 | 45 | 2600 | 44 | 3.9 | 8 | 34 | 47 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 9.5 | 27 | 130 | 320 | 160 | 1.2 J | 32 | 59 | 1800 | 100 | 7.2 | 16 | 69 | 69 |
| Acenaphthene | 83-32-9 | ug/kg | 60 | 47 | 1300 | 720 | 220 | 2 | 81 | 150 | 6500 | 130 | 16 | 31 | 150 | 86 |
| Acenaphthylene | 208-96-8 | ug/kg | 16 | 16 | 8.4 | 56 | 61 | 1.5 J | 14 | 15 | 400 | 41 | 5 | 10 | 23 | 44 |
| Anthracene | 120-12-7 | ug/kg | 31 | 45 | 250 | 540 | 220 | 4.6 | 49 | 49 | 4200 | 100 | 22 | 34 | 84 | 110 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 130 | 100 | 150 | 470 | 580 | 18 | 140 | 160 | 3800 | 260 | 87 | 94 | 170 | 310 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 190 | 160 | 93 | 400 | 820 | 27 | 140 | 200 | 4100 | 400 | 120 | 130 | 210 | 510 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 190 | 150 | 140 | 380 | 770 | 26 | 170 | 230 | 3700 | 410 | 150 | 150 | 220 | 510 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 120 | 100 | 79 | 260 | 530 | 18 | 99 | 140 | 2500 | 300 | | | | 340 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 150 | 130 | 64 | 290 | 770 | 30 | 110 | 160 | 2900 | 430 | 100 | 110 | 190 | 460 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 57 | 46 | 47 | 110 | 230 | 8.3 | 50 | 72 | 1200 | 130 | 48 | 45 | 67 | 150 |
| Chrysene | 218-01-9 | ug/kg | 160 | 130 | 190 | 510 | 590 | 23 | 170 | 180 | 4400 | 340 | 110 | 110 | 200 | 390 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 21 | 17 | 11 | 37 | 71 | 2.7 | 17 | 23 | 380 | 48 | 17 | 16 | 21 | 56 |
| Dibenzothiophene | 132-65-0 | ug/kg | 33 | 23 | 92 | 430 | 130 | 2.4 | 26 | 31 | 3500 | 76 | 5.5 | 6.7 | 48 | 54 |
| Fluoranthene | 206-44-0 | ug/kg | 300 | 190 | 880 | 1600 | 1600 | 47 | 390 | 360 | 13000 | 740 | 170 | 180 | 490 | 710 J |
| Fluorene | 86-73-7 | ug/kg | 31 | 34 | 760 | 540 | 160 | 1.6 J | 67 | 76 | 3800 | 75 | 12 | 20 | 90 | 66 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 150 | 130 | 71 | 260 | 720 | 28 | 110 | 170 | 3000 | 380 | 110 | 120 | 180 | 460 J |
| Naphthalene | 91-20-3 | ug/kg | 31 | 52 | 110 | 300 | 350 | 3.8 | 62 | 140 | 3500 | 370 | 19 | 41 | 120 | 160 |
| Perylene | 198-55-0 | ug/kg | 91 | 110 | 59 | 180 | 280 | 45 | 120 | 120 | 1000 | 140 | | | | 230 |
| Phenanthrene | 85-01-8 | ug/kg | 220 | 230 | 2000 | 3900 | 1400 | 33 | 350 | 330 | 27000 | 650 | 79 | 100 | 560 | 510 J |
| Pyrene | 129-00-0 | ug/kg | 320 | 210 | 650 | 2100 | 2700 | 61 | 380 | 350 | 15000 | 910 | 160 | 190 | 510 | 740 |
| High Molecular Weight PAH | HPAH | ug/kg | 1700 T | 1300 T | 2300 T | 6200 T | 8900 T | 270 T | 1700 T | 1900 T | 51000 T | 4000 T | 1100 T | 1100 T | 2300 T | 4300 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 400 T | 450 T | 4600 T | 6400 T | 2600 T | 48 JT | 660 T | 820 T | 47000 T | 1500 T | 160 T | 250 T | 1100 T | 1000 JT |
| Total PAHs | 130498-29-2 | ug/kg | 2100 T | 1700 T | 6900 T | 13000 T | 11000 T | 320 JT | 2300 T | 2700 T | 99000 T | 5500 T | 1200 T | 1400 T | 3400 T | 5300 JT |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 11 | 14 | 18 | 250 | 190 | 3.5 | 52 | 37 | 790 | 160 | | | | 49 |
| C1-Chrysene | C1_218-01-9 | ug/kg | 120 | 110 | 97 | 560 | 330 | 10 | 140 | 140 | 3200 | 230 | | | | 300 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 19 | 16 | 47 | 430 | 120 | 2.8 | 29 | 27 | 1800 | 57 | | | | 38 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 140 | 120 | 230 | 1000 J | 550 | 19 | 200 | 190 | 6200 | 380 | | | | 340 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 130 | 110 | 270 | 2900 J | 710 | 20 | 210 | 160 | 15000 J | 390 | | | | 270 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 31 | 40 | 33 | 640 | 250 | 3.6 | 71 | 60 | 2900 | 150 | | | | 89 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 66 | 85 | 49 | 460 | 230 | 5 | 97 | 100 | 2000 | 150 | | | | 220 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 26 | 29 | 57 | 590 | 210 | 6.1 | 69 | 54 | 2800 | 180 | | | | 80 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 38 | 36 | 230 | 1800 J | 420 | 2.3 | 61 | 110 | 7100 | 150 | | | | 120 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 88 | 83 | 120 | 2000 J | 530 | 11 | 190 | 140 | 8500 J | 390 | | | | 230 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 21 | 56 | 29 | 500 | 290 | 1.8 J | 76 | 81 | 1700 | 180 | | | | 120 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 36 | 57 | 33 | 310 | 140 | 0.25 U | 62 | 61 | 1000 | 130 | | | | 140 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 32 | 38 | 54 | 830 | 400 | 7.5 | 97 | 92 | 2900 | 240 | | | | 140 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 36 | 27 | 130 | 1500 J | 620 | 3.6 | 110 | 110 | 5800 | 320 | | | | 140 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 62 | 94 | 110 | 1300 J | 500 | 12 | 200 | 170 | 4700 | 450 | | | | 240 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 17 | 29 | 18 | 150 | 90 | 0.25 U | 38 | 45 | 490 | 82 | | | | 91 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 29 | 28 | 59 | 800 | 470 | 5.8 | 91 | 82 | 3100 | 290 | | | | 110 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 32 | 46 | 45 | 410 | 160 | 4.1 | 69 | 80 | 1700 | 300 | | | | 150 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 85 | 90 | 92 | 640 | 260 | 8.7 | 120 | 120 | 3200 | 240 | | | | 250 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 51 | 56 | 46 | 490 | 190 | 3.8 | 89 | 83 | 1900 | 160 | | | | 190 |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 4.97 U | 12.7 | 27.1 T | 27.2 | 4.99 U | 4.94 U | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | 8.45 | 14.5 | 25.7 T | 15.5 | 8.4 | 4.94 U | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | 5.02 | 11.8 | 28.2 T | 33.6 | 8.71 | 4.94 U | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | 24.9 | 24 | 70 T | 78 | 9.97 U | 9.88 U | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | 40.6 | 76.9 | 227 T | 450 | 22.1 | 9.88 U | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | 10.3 | 19.8 | 55.6 T | 60.1 | 9.97 U | 9.88 U | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | 9.95 U | 9.82 U | 25.9 T | 27.1 | 9.97 U | 9.88 U | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 62.8 | 124 | 156 T | 62.4 | 11 | 9.88 U | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | 9.95 U | 13.4 | 38.3 T | 27.3 | 9.97 U | 9.88 U | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | 9.95 U | 9.82 U | 9.71 UT | 9.95 U | 9.97 U | 9.88 U | | | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C606-B | LW3-C606-C | LW3-C608-B | LW3-C609-B | LW3-C609-C | LW3-C609-D | LW3-C610-B | LW3-C613-B | LW3-C613-C | LW3-C613-E | LW3-C614-B | LW3-C614-C | LW3-C614-D | LW3-C615-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 128 | 128 - 240 | 30 - 152 | 30 - 151 | 151 - 273 | 273 - 311 | 30 - 151 | 30 - 153 | 153 - 180 | 278 - 365 | 30 - 152 | 152 - 274 | 274 - 343 | 30 - 124 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | 39.3 | 78.6 | 259 T | 204 | 13.3 | 9.88 U | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | 51.9 | 106 | 357 T | 479 | 29.2 | 5.73 | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | 38.8 | 81 | 284 T | 441 | 21.1 | 4.94 U | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | 73.9 | 148 | 437 T | 579 | 41.4 | 5.88 | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | 49.5 | 24.2 | 47.9 T | 58.1 | 4.99 U | 4.94 U | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 63.1 | 129 | 465 T | 437 | 69.7 | 5.23 | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | 42.9 | 76.3 | 288 T | 241 | 28.8 | 4.94 U | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | 8.78 | 14.1 | 45.1 T | 49.9 | 4.99 U | 4.94 U | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | 15.8 | 29.2 | 106 T | 92.6 | 11.4 | 4.94 U | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | 22.8 | 42.2 | 150 T | 136 | 17.4 | 4.94 U | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | 152 | 316 | 1370 T | 1450 | 110 | 10.5 | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | 117 | 231 | 855 T | 976 | 93.7 | 9.18 | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | 4.97 U | 4.91 U | 17.7 T | 15.4 | 4.99 U | 4.94 U | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | 4.97 U | 7.53 | 22.1 T | 18.2 | 4.99 U | 4.94 U | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | 50.9 | 100 | 432 T | 260 | 26 | 4.94 U | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | 4.97 U | 4.91 U | 15 T | 8.24 | 4.99 U | 4.94 U | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | 4.97 U | 4.91 U | 13.9 T | 13.5 | 4.99 U | 4.94 U | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | 29.3 | 56.8 | 245 T | 197 | 23 | 4.94 U | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 174 | 369 | 1420 T | 1200 | 191 | 15.6 | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | 55.6 | 129 | 539 T | 396 | 55.9 | 4.94 U | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | 204 | 590 | 1750 T | 1690 | 352 | 44.1 | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | 179 | 428 | 1620 T | 1290 | 272 | 11.2 | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | 22.5 | 41.2 | 212 T | 161 | 13.3 | 4.94 U | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | 10 | 22.7 | 94.3 T | 98.7 | 6.86 | 4.94 U | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | 135 | 260 | 619 T | 669 | 119 | 29.4 | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | 34.2 | 76.8 | 327 T | 240 | 26.3 | 4.94 U | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | 4.97 U | 4.91 U | 8.02 T | 7.19 | 4.99 U | 4.94 U | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | 42.7 | 64.6 | 102 T | 90.1 | 7.23 | 4.94 U | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | 239 | 707 | 1990 T | 1810 | 534 | 31.2 | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | 42.2 | 128 | 273 T | 206 | 19.3 | 4.94 U | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | 10.6 | 7.46 | 6.02 T | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | 4.97 U | 7.08 | 23 T | 14.7 | 5.96 | 4.94 U | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | 114 | 213 | 930 T | 745 | 143 | 4.94 U | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | 4.97 U | 4.91 U | 11.6 T | 12.2 | 4.99 U | 4.94 U | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | 4.97 U | 5.4 | 19.9 T | 17.5 | 6.51 | 4.94 U | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | 242 | 632 | 2280 T | 2110 | 552 | 16.2 | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | 9.1 | 19.8 | 80.4 T | 73.3 | 15.1 | 4.94 U | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | 209 | 506 | 2110 T | 1500 | 300 | 9.85 | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | 6.04 | 11.5 | 46.2 T | 37.8 | 7.61 | 4.94 U | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | 4.97 U | 28.3 | 39.1 T | 44.1 | 18.1 | 4.94 U | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | 4.97 U | 7.02 | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | 95.7 | 195 | 820 T | 618 | 121 | 4.94 U | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | 21.7 | 47.2 | 192 T | 140 | 18.4 | 1.78 U | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | 4.97 U | 19.9 | 51.3 T | 45.6 | 22.1 | 4.94 U | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | 1.1 J | 1.68 J | 4.88 JT | 4.46 J | 1.7 J | 0.445 U | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | 36.1 | 106 | 328 T | 248 | 101 | 4.94 U | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | 157 | 593 | 1410 T | 1760 | 911 | 27.7 | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | 53.9 | 159 | 431 T | 358 | 164 | 4.94 U | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | 4.97 U | 4.91 U | 10.1 T | 8.1 | 4.99 U | 4.94 U | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 108 | 326 | 777 T | 721 | 438 | 7.57 | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | 86.8 | 300 | 566 T | 586 | 222 | 20.1 | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | 4.97 U | 10.1 | 37.8 T | 27 | 7.5 | 4.94 U | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | 417 | 1460 | 3130 T | 4350 | 2730 | 77.4 | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 8.44 | 21.6 | 21 T | 16.4 | 4.99 U | 4.94 U | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 306 | 1110 | 2320 T | 2870 | 1850 | 69.2 | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | 7.55 | 18.5 | 31.6 T | 25.5 | 7.11 | 4.94 U | | | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C606-B | LW3-C606-C | LW3-C608-B | LW3-C609-B | LW3-C609-C | LW3-C609-D | LW3-C610-B | LW3-C613-B | LW3-C613-C | LW3-C613-E | LW3-C614-B | LW3-C614-C | LW3-C614-D | LW3-C615-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 128 | 128 - 240 | 30 - 152 | 30 - 151 | 151 - 273 | 273 - 311 | 30 - 151 | 30 - 153 | 153 - 180 | 278 - 365 | 30 - 152 | 152 - 274 | 274 - 343 | 30 - 124 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | 92.2 | 306 | 847 T | 718 | 338 | 7.32 | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | 195 | 728 | 1690 T | 2180 | 967 | 35.6 | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | 18.6 | 50.5 | 49.5 T | 73.6 | 19.5 | 4.94 U | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | 18.6 | 68.5 | 92.3 T | 159 | 75.3 | 5.75 | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | 94.4 | 264 | 710 T | 545 | 283 | 4 J | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | 292 | 945 | 2420 T | 2170 | 1190 | 23 | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | 27.5 | 101 | 251 T | 306 | 173 | 4.94 U | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | 19 | 56 | 146 T | 144 | 65.8 | 4.94 U | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | 415 | 1420 | 3330 T | 3350 | 1990 | 56.4 | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | 5.2 | 13.2 | 33.3 T | 32.8 | 17.8 | 4.94 U | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | 4.97 U | 10.1 | 15.3 T | 19.7 | 10.1 | 4.94 U | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | 4.89 J | 16.1 | 40.8 T | 31.3 | 12 | 1.01 U | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | 18.7 | 83.2 | 146 T | 215 | 96.6 | 4.94 U | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | 4.97 U | 12 | 22 T | 26.1 | 19.9 | 4.94 U | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 7.17 | 4.99 U | 4.94 U | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | 4.97 U | 10.4 | 26.4 T | 22.8 | 10.7 | 4.94 U | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | 5.02 | 12.9 | 35.1 T | 24.2 | 11.4 | 0.954 U | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | 11.1 | 33.3 | 74.5 T | 61.9 | 36.9 | 4.94 U | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | 2.07 J | 5.3 | 16 T | 10.9 | 6.42 | 1.11 U | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | 56.3 | 177 | 409 T | 438 | 370 | 7.22 | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | 14.5 | 46.9 | 102 T | 102 | 76.3 | 4.94 U | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | 35.3 | 105 | 230 T | 335 | 517 | 10.2 | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | 117 | 424 | 874 T | 1330 | 1140 | 24.9 | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | 17.6 | 72.4 | 131 T | 370 | 261 | 4.94 U | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | 22.6 | 72 | 165 T | 225 | 187 | 4.94 U | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | 86.9 | 332 | 514 T | 1210 | 881 | 22.4 | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | 81.2 | 295 | 476 T | 881 | 736 | 26.8 | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | 15.3 | 45.5 | 104 T | 108 | 63.3 | 4.94 U | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 446 | 1430 | 3070 T | 4930 | 5080 | 99.4 | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | 502 | 1660 | 2750 T | 5220 | 4830 | 148 | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | 4.97 | 28.7 | 41.1 T | 137 | 127 | 4.94 U | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | 76.6 | 235 | 498 T | 858 | 914 | 15.1 | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | 23 | 70.1 | 119 T | 230 | 246 | 5.57 | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | 103 | 411 | 724 T | 1960 | 2040 | 32 | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | 26.3 | 67.1 | 93.8 T | 113 | 45.9 | 4.94 U | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | 4.97 U | 19.9 | 21.8 T | 121 | 52.7 | 4.94 U | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | 4.97 U | 23 | 22.6 T | 46.3 | 14.9 | 4.94 U | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | 152 | 456 | 782 T | 1700 | 1610 | 38.9 | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | 492 | 1660 | 3410 T | 6150 | 7300 | 140 | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | 23.2 | 111 | 159 T | 426 | 378 | 6.13 UJ | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | 33.6 | 110 | 246 T | 285 | 377 | 4.72 J | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | 6.71 | 22.8 | 47.1 T | 39.8 | 30.6 | 0.612 J | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | 41.4 | 129 | 265 T | 341 | 353 | 5.66 | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | 4.97 U | 4.91 U | 8.04 T | 6.05 | 4.99 U | 4.94 U | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | 14.4 | 45.3 | 102 T | 116 | 142 | 2.07 U | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | 4.97 U | 5.83 | 9.12 T | 21.2 | 25.2 | 4.94 U | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | 1.07 U | 1.02 U | 1.92 UT | 2.57 U | 3.56 U | 0.577 U | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | 116 | 399 | 902 T | 1520 | 4560 | 38.7 | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | 31.1 | 123 | 265 T | 471 | 1150 | 12.5 | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | 20.7 | 74.9 | 166 T | 274 | 808 | 6.72 | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | 4.97 U | 11.3 | 23.5 T | 36 | 83 | 4.94 U | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | 142 | 519 | 1150 T | 2090 | 4760 | 44.8 | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | 6.94 | 20.9 | 50.2 T | 83.7 | 216 | 4.94 U | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | 21 | 71.7 | 152 T | 313 | 690 | 7.8 | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | 81.4 | 319 | 675 T | 1430 | 3110 | 28.3 | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | 38.9 | 124 | 260 T | 652 | 1140 | 12.4 | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 81.9 | 270 | 549 T | 1140 | 2010 | 25.4 | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | 299 | 1020 | 2320 T | 4050 | 12500 | 104 | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | 4.97 U | 4.91 U | 5.37 T | 18.6 | 21.9 | 4.94 U | | | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C606-B | LW3-C606-C | LW3-C608-B | LW3-C609-B | LW3-C609-C | LW3-C609-D | LW3-C610-B | LW3-C613-B | LW3-C613-C | LW3-C613-E | LW3-C614-B | LW3-C614-C | LW3-C614-D | LW3-C615-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 128 | 128 - 240 | 30 - 152 | 30 - 151 | 151 - 273 | 273 - 311 | 30 - 151 | 30 - 153 | 153 - 180 | 278 - 365 | 30 - 152 | 152 - 274 | 274 - 343 | 30 - 124 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 235 | 715 | 1510 T | 3150 | 7260 | 74 | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | 83.2 | 267 | 582 T | 1110 | 2990 | 33.4 | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | 15.9 | 53.4 | 113 T | 200 | 478 | 4.94 U | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | 4.97 U | 4.91 U | 6.04 T | 10.7 | 4.99 U | 4.94 U | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | 4.51 J | 14.5 | 35.1 T | 52.8 | 191 | 1.57 J | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | 25.8 | 86 | 188 T | 302 | 996 | 7.44 | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | 5.18 | 17.6 | 38.2 T | 61.6 | 193 | 4.94 U | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | 16.3 | 58.8 | 120 T | 246 | 632 | 5.82 | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | 73.5 | 252 | 566 T | 894 | 4330 | 27.9 | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | 30.9 | 109 | 235 T | 385 | 2060 | 10.6 | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | 105 | 288 | 685 T | 1120 | 5090 | 38.3 | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | 4.97 U | 10.1 | 22.8 T | 43.1 | 165 | 4.94 U | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | 4.97 U | 15.3 | 35.5 T | 61.2 | 225 | 4.94 U | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | 107 | 270 | 659 T | 1100 | 4800 | 41.4 | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | 12.4 | 35.3 | 83.8 T | 136 | 572 | 4.94 U | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | 10.2 | 34.6 | 78.7 T | 147 | 542 | 5.35 | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | 17.8 | 54 | 121 T | 214 | 799 | 9.1 | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | 4.97 U | 4.91 U | 4.85 UT | 4.98 U | 4.99 U | 4.94 U | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | 4.97 U | 11.3 | 26.3 T | 39.5 | 186 | 4.94 U | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | 41.7 | 116 | 265 T | 523 | 4260 | 71 | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | 4.97 U | 13.8 | 32.5 T | 54.3 | 277 | 5 | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | 13.4 | 32.7 | 74.5 T | 174 | 1660 | 29 | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | 37.1 | 106 | 312 T | 801 | 4540 | 84.6 | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | 9220 JT | 28100 JT | 68300 JT | 91300 JT | 116000 JT | 1830 JT | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 0.223 JT | 0.578 JT | 1.73 JT | 1.2 JT | 0.711 JT | 0.00102 JT | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 13.5 T | 39 T | 81 T | 76.3 T | 17.1 T | 4.94 UT | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 178 T | 337 T | 832 T | 909 T | 46.4 T | 9.88 UT | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 687 T | 1300 T | 4910 T | 5250 T | 449 T | 36.5 T | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 1880 JT | 4570 JT | 15800 JT | 13400 JT | 2830 JT | 158 T | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 2400 JT | 8240 T | 19000 T | 21100 T | 11800 T | 334 JT | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 2390 T | 8050 T | 15400 T | 27700 T | 27800 T | 581 JT | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 1220 JT | 4170 T | 9110 T | 17200 T | 43800 T | 403 JT | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 357 T | 1080 T | 2510 T | 4140 T | 18800 T | 133 T | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 55.1 T | 163 T | 372 T | 751 T | 6200 T | 105 T | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.49 J | 0.89 U | 3.4 NJ | 5.1 J | 6.7 | 0.16 U | 2.1 U | 3.6 NJ | 14 | 12 J | 0.49 U | 1.2 U | 5 NJ | 4 J |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.17 U | 0.18 U | 1.4 U | 0.25 U | 0.22 U | 0.046 U | 0.046 U | 0.4 U | 0.046 U | 6.1 | 0.16 U | 0.48 U | 0.75 U | 0.046 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.37 U | 1.3 J | 2.4 J | 3.1 U | 6.6 U | 0.061 U | 5.5 J | 2.6 J | 6.6 U | 7.1 U | 0.89 | 2.6 | 3.4 | 1.1 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 1.7 | 1.8 | 3.4 | 11 | 14 | 0.073 U | 5.1 | 3 J | 20 | 31 | 1.8 | 2.7 | 6 | 11 |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.6 | 3.3 | 6.8 | 12 J | 10 J | 0.027 U | 9.3 J | 5.3 J | 5.7 NJ | 44 NJ | 2.3 | 5.6 J | 7.3 J | 5.3 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.83 | 4.1 NJ | 3.2 U | 5 U | 83 | 0.18 U | 5.8 | 3.4 | 21 | 6.3 | 14 | 12 | 13 | 2.5 |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 1.1 U | 0.8 | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.25 NJ | 0.25 J | 0.22 U | 0.037 U | 0.037 U | 0.037 U | 1.1 U | 0.13 U | 2.2 U | 0.22 U | 0.17 J | 0.19 U | 0.037 U | 0.19 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.14 U | 0.097 U | 0.097 U | 0.3 NJ | 0.13 NJ | 0.35 U | 0.13 U | 0.097 U | 0.19 U | 0.38 J | 0.2 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.17 U | 0.18 U | 0.27 U | 0.22 | 0.37 U | 0.031 U | 0.59 U | 0.73 NJ | 1.1 U | 0.35 | 0.14 U | 0.75 NJ | 1.1 NJ | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.14 U | 1.3 U | 0.14 U | 0.19 U | 0.14 U | 0.51 J | 0.14 U | 0.14 U | 0.51 | 0.22 U | 0.37 U | 0.78 NJ | 0.51 |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.18 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.17 U | 0.031 U | 0.031 U | 0.13 U | 0.2 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.28 U | 0.94 U | 1.9 U | 2.7 U | 4.7 U | 0.087 U | 3.1 U | 2.1 U | 4.4 U | 7 U | 0.69 U | 2.2 U | 2.4 U | 0.83 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.11 U | 0.11 U | 0.27 U | 0.11 U | 0.11 U | 0.37 U | 0.11 U | 0.59 U | 0.48 | 0.11 U | 0.15 U | 0.35 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.62 NJ | 0.8 NJ | 0.73 U | 0.33 U | 0.17 U | 0.03 U | 0.47 U | 0.95 NJ | 1.6 U | 0.23 U | 0.3 | 1.2 NJ | 0.41 U | 0.28 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.17 U | 0.21 U | 0.2 U | 0.25 U | 0.17 U | 0.058 U | 0.29 U | 0.058 U | 0.48 U | 0.058 U | 0.16 U | 0.19 U | 0.058 U | 0.24 U |
| Endrin | 72-20-8 | ug/kg | 0.17 U | 0.071 U | 0.2 U | 0.22 U | 0.071 U | 0.071 U | 0.75 U | 0.34 U | 0.56 U | 0.25 U | 0.16 U | 0.35 U | 0.17 U | 0.11 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 0.18 U | 0.58 U | 0.042 U | 0.042 U | 0.042 U | 1.2 U | 0.47 U | 2.9 U | 0.54 U | 0.042 U | 0.53 U | 0.042 U | 0.042 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.16 U | 0.26 U | 0.51 U | 0.66 U | 1.5 U | 0.029 U | 0.64 U | 0.55 U | 1.3 U | 1.4 U | 0.21 U | 0.54 U | 0.74 U | 0.89 NJ |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.24 U | 0.19 U | 1.2 U | 0.69 U | 0.88 U | 0.15 U | 0.62 NJ | 0.062 U | 1.5 J | 0.56 U | 0.17 U | 0.65 NJ | 0.36 U | 0.41 U |
| Heptachlor | 76-44-8 | ug/kg | 0.17 U | 0.18 U | 1.1 U | 0.59 U | 0.17 U | 0.076 U | 0.89 U | 0.91 U | 0.45 U | 0.18 U | 0.28 U | 1.1 NJ | 1.1 | 0.2 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.2 U | 0.19 U | 0.93 U | 0.32 U | 0.19 U | 0.26 NJ | 5.4 NJ | 0.69 NJ | 0.068 U | 0.42 U | 0.18 U | 0.54 U | 2.3 NJ | 0.79 NJ |
| Methoxychlor | 72-43-5 | ug/kg | 0.49 U | 0.25 U | 1.1 U | 0.48 U | 0.6 U | 0.075 U | 1.4 NJ | 0.9 | 1.1 U | 0.86 U | 0.56 U | 0.73 U | 2.2 J | 0.28 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.38 U | 0.12 U | 0.41 U | 0.12 U | 0.12 U | 0.12 U | 0.26 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 U | 0.18 U | 0.21 U | 0.37 U | 0.25 U | 0.061 U | 0.12 U | 0.21 U | 0.91 U | 0.56 U | 0.061 U | 0.31 U | 0.22 U | 0.2 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.48 JT | 0.18 JT | 0.19 JT | 2.7 UT | 4.7 UT | 0.087 UT | 3.1 UT | 0.3 JT | 4.4 UT | 7 UT | 0.14 JT | 0.26 JT | 2.4 UT | 0.83 UT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C606-B | LW3-C606-C | LW3-C608-B | LW3-C609-B | LW3-C609-C | LW3-C609-D | LW3-C610-B | LW3-C613-B | LW3-C613-C | LW3-C613-E | LW3-C614-B | LW3-C614-C | LW3-C614-D | LW3-C615-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 128 | 128 - 240 | 30 - 152 | 30 - 151 | 151 - 273 | 273 - 311 | 30 - 151 | 30 - 153 | 153 - 180 | 278 - 365 | 30 - 152 | 152 - 274 | 274 - 343 | 30 - 124 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.25 JT | 0.25 JT | 0.27 UT | 0.22 T | 0.37 UT | 0.058 UT | 1.1 UT | 0.73 JT | 2.2 UT | 0.35 T | 0.17 JT | 0.75 JT | 1.1 JT | 0.24 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 2.2 JT | 1.8 T | 6.8 JT | 16 JT | 21 T | 0.16 UT | 5.1 T | 6.6 JT | 34 T | 43 JT | 1.8 T | 2.7 T | 11 JT | 15 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 4.6 JT | 11 JT | 16 JT | 28 JT | 110 JT | 0.18 UT | 26 JT | 18 JT | 61 JT | 99 JT | 19 T | 23 JT | 35 JT | 23 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.6 T | 3.3 T | 6.8 T | 12 JT | 10 JT | 0.046 UT | 9.3 JT | 5.3 JT | 5.7 JT | 50 JT | 2.3 T | 5.6 JT | 7.3 JT | 5.3 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.83 T | 5.4 JT | 2.4 JT | 5 UT | 83 T | 0.18 UT | 11 JT | 6 JT | 21 T | 6.3 T | 15 T | 15 T | 16 T | 2.5 T |
| Toxaphene | 8001-35-2 | ug/kg | 12 U | 16 U | 44 U | 89 U | 110 U | 4.8 U | 110 U | 33 U | 210 U | 50 U | 10 U | 46 U | 79 U | 33 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.36 | 0.87 U | 0.2 U | 2 U | 2 U | 0.027 U | 0.54 U | 0.87 U | 2.3 U | 1.2 U | 0.5 U | 0.56 U | 0.69 U | 0.24 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.12 J | 0.18 J | 0.19 NJ | 0.76 U | 0.5 U | 0.034 U | 0.24 U | 0.3 NJ | 0.75 U | 0.2 U | 0.14 J | 0.26 J | 0.5 U | 0.034 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 42 J | 160 J | 220 J | 460 J | 510 J | 15 J | 210 J | 220 J | 560 J | 520 J | 110 J | 210 J | 220 J | 230 JT |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 28 J | 120 J | 170 J | 350 J | 390 J | 11 J | 170 J | 220 J | 340 J | 460 J | 73 J | 230 J | 200 J | 209 JT |
| Residual Range Hydrocarbons | RRH | mg/kg | 220 J | 500 J | 630 J | 860 J | 1100 J | 49 U | 560 J | 510 J | 530 J | 940 J | 400 J | 560 J | 510 J | 625 JT |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 100 J | 290 J | 400 J | 580 J | 690 J | 23 J | 370 J | 430 J | 240 J | 730 J | 210 J | 500 J | 390 J | 457 JT |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 262 JA | 660 JA | 850 JA | 1320 JA | 1610 JA | 15 JA | 770 JA | 730 JA | 1090 JA | 1460 JA | 510 JA | 770 JA | 730 JA | 855 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 128 JA | 410 JA | 570 JA | 930 JA | 1080 JA | 34 JA | 540 JA | 650 JA | 580 JA | 1190 JA | 283 JA | 730 JA | 590 JA | 666 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.35 U | 0.35 U | 0.39 U | 0.38 U | 0.34 U | 0.28 U | 0.4 U | 0.39 U | 0.32 U | 0.38 U | 0.41 U | 0.38 U | 0.35 U | 2.8 J |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.29 U | 0.29 U | 1.5 U | 0.31 U | 0.32 J | 0.23 U | 0.33 U | 0.31 U | 0.26 U | 0.96 U | 0.33 U | 0.31 U | 1.3 U | 2.7 J |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.92 U | 1.5 NJ | 3.6 U | 0.99 U | 0.89 U | 0.73 U | 1.1 U | 1.1 U | 3.8 J | 6.5 J | 5.1 U | 9 U | 2.2 U | 2.5 NJ |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.19 U | 0.19 U | 0.21 U | 1.6 J | 1.2 J | 0.15 U | 0.45 J | 3.8 U | 0.17 U | 1.5 U | 0.22 U | 2.1 U | 0.19 U | 0.21 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 5 U | 1 U | 10 U | 10 U | 1 U | 5 U | 1 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 UJ | 28 UJ | R | 55 UJ | 55 UJ | 5.5 UJ | 28 UJ | R | R | 55 U | R | R | R | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 85 U | 17 U | 170 U | 170 U | 17 U | 85 U | 17 U | 170 U | 170 U | 17 U | 17 U | 85 U | 85 UJ |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 10 U | 2 U | 20 U | 20 U | 2 U | 10 U | 2 U | 20 U | 20 U | 2 U | 2 U | 10 U | 10 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 7.5 U | 7.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 7.5 U | 7.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 7 U | 1.4 U | 14 U | 14 U | 1.4 U | 7 U | 1.4 U | 14 U | 14 U | 1.4 U | 1.4 U | 7 U | 7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 7 U | 1.4 U | 14 U | 14 U | 1.4 U | 7 U | 1.4 U | 14 U | 14 U | 1.4 U | 1.4 U | 7 U | 7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 16 | 22 J | 9.9 | 63 J | 120 | 1.5 U | 34 J | 18 | 160 | 84 J | 6.2 J | 8.7 J | 22 J | 32 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 90 U | 18 U | 180 U | 180 U | 18 U | 90 U | 18 U | 180 U | 180 U | 18 U | 18 U | 90 U | 90 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 2.5 U | 6.9 U | 2.9 J | 9.3 NJ | 3.3 J | 1.1 J | 10 NJ | 7.5 NJ | 2.6 J | 9.1 U | 0.31 U | 0.29 U | 5 NJ | 15 NJ |
| Phenol | 108-95-2 | ug/kg | 6.7 J | 10 U | 32 U | 20 U | 20 U | 2.1 J | 10 U | 6.7 J | 20 U | 20 U | 5.1 J | 9 J | 10 J | 10 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 48 | 99 | 76 | 70 U | 70 U | 7 U | 95 J | 110 | 70 U | 70 U | 78 | 92 | 100 | 110 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 J | 16 U | 3.2 U | 32 U | 32 U | 3.2 U | 16 U | 9.6 | 32 U | 32 U | 15 | 14 | 16 U | 16 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 16 | 40 U | 11 | 79 U | 79 U | 7.9 U | 40 U | 13 | 79 U | 79 U | 12 | 8.1 J | 40 U | 40 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.3 J | 6.5 U | 3.1 J | 13 U | 13 U | 1.3 U | 6.5 U | 2 J | 13 U | 13 U | 2.3 J | 1.3 U | 6.5 U | 6.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 5 U | 1 U | 10 U | 10 U | 1 U | 5 U | 1 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 8.5 U | 1.7 U | 17 U | 17 U | 1.7 U | 8.5 U | 1.7 U | 17 U | 17 U | 1.7 U | 1.7 U | 8.5 U | 8.5 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 13 U | 2.6 U | 26 U | 26 U | 2.6 U | 13 U | 2.6 U | 26 U | 26 U | 2.6 U | 2.6 U | 13 U | 13 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 6.9 J | 15 U | 2.9 U | 29 U | 29 U | 2.9 U | 15 U | 2.9 U | 29 U | 29 U | 2.9 U | 2.9 U | 15 U | 15 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 15 U | 3 U | 30 U | 30 U | 3 U | 15 U | 3 U | 30 U | 30 U | 3 U | 3 U | 15 U | 15 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 8.8 | 15 U | 2.9 U | 29 U | 29 U | 2.9 U | 15 U | 2.9 U | 29 U | 29 U | 2.9 U | 2.9 U | 15 U | 15 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 7.5 U | 7.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 10 U | 2 U | 20 U | 20 U | 2 U | 10 U | 2 U | 20 U | 20 U | 2 U | 2 U | 10 U | 10 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 8 U | 1.6 U | 16 U | 16 U | 1.6 U | 8 U | 1.6 U | 16 U | 16 U | 1.6 U | 1.6 U | 8 U | 8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 16 U | 3.2 U | 32 U | 32 U | 3.2 U | 16 U | 3.2 U | 32 U | 32 U | 3.2 U | 3.2 U | 16 U | 16 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 19 U | 3.7 U | 37 U | 37 U | 3.7 U | 19 U | 3.7 U | 37 U | 37 U | 3.7 U | 3.7 U | 19 U | R |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 13 U | 2.5 U | 25 U | 25 U | 2.5 U | 13 U | 2.5 U | 25 U | 25 U | 2.5 U | 2.5 U | 13 U | 13 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 8 U | 1.6 U | 16 U | 16 U | 1.6 U | 8 U | 1.6 U | 16 U | 16 U | 1.6 U | 1.6 U | 8 U | 8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 9.5 U | 1.9 U | 19 U | 19 U | 1.9 U | 9.5 U | 1.9 U | 19 U | 19 U | 1.9 U | 3.1 J | 9.5 U | 9.5 UJ |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 7 U | 1.4 U | 14 U | 14 U | 1.4 U | 7 U | 1.4 U | 14 U | 14 U | 1.4 U | 1.4 U | 7 U | 7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 9 U | 1.8 U | 18 U | 18 U | 1.8 U | 9 U | 1.8 U | 18 U | 18 U | 1.8 U | 1.8 U | 9 U | 9 U |
| Aniline | 62-53-3 | ug/kg | 1.5 U | 7.5 U | R | 15 U | 15 U | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 7.5 U | R |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 5.5 U | 1.1 U | 11 U | 11 U | 1.1 U | 5.5 U | 1.1 U | 11 U | 11 U | 1.1 U | 1.1 U | 5.5 U | 5.5 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 480 U | 140 J | 960 U | 960 U | 96 U | 480 U | 96 UJ | 960 UJ | R | 96 UJ | 96 UJ | 480 UJ | 480 UJ |
| Benzyl alcohol | 100-51-6 | ug/kg | 6.2 J | 11 U | 7.7 J | 21 U | 21 U | 3.7 J | 11 U | 16 | 71 J | 21 U | 7.5 J | 4.9 J | 160 | 11 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 7.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 7.5 U | 7.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 9.5 U | 1.9 U | 19 U | 19 U | 1.9 U | 9.5 U | 1.9 U | 19 U | 19 U | 1.9 U | 1.9 U | 9.5 U | 9.5 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 13 U | 2.6 U | 26 U | 26 U | 2.6 U | 13 U | 2.6 U | 26 U | 26 U | 2.6 U | 2.6 U | 13 U | 13 U |
| Carbazole | 86-74-8 | ug/kg | 5.4 J | 8.5 J | 53 | 29 J | 21 J | 1.3 U | 10 J | 15 | 430 | 13 U | 11 | 11 | 12 J | 17 J |
| Dibenzofuran | 132-64-9 | ug/kg | 8 | 11 | 490 | 140 | 35 | 0.59 U | 37 | 33 | 610 | 31 | 5.8 | 12 | 44 | 21 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.13 U | 0.14 U | 0.31 J | 0.45 J | 0.59 J | 0.068 U | 6 U | 0.26 | 0.56 U | 0.67 | 1.2 U | 1.2 U | 6 U | 0.24 |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C606-B | LW3-C606-C | LW3-C608-B | LW3-C609-B | LW3-C609-C | LW3-C609-D | LW3-C610-B | LW3-C613-B | LW3-C613-C | LW3-C613-E | LW3-C614-B | LW3-C614-C | LW3-C614-D | LW3-C615-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 128 | 128 - 240 | 30 - 152 | 30 - 151 | 151 - 273 | 273 - 311 | 30 - 151 | 30 - 153 | 153 - 180 | 278 - 365 | 30 - 152 | 152 - 274 | 274 - 343 | 30 - 124 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.26 U | 0.14 U | 0.14 U | 0.19 U | 0.38 U | 0.23 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 150 U | 29 U | 290 U | 290 U | 29 U | 150 U | 29 UJ | 290 UJ | 290 U | 29 UJ | 29 UJ | 150 UJ | R |
| Hexachloroethane | 67-72-1 | ug/kg | 0.32 U | 0.16 U | 0.45 U | 0.24 U | 0.16 U | 0.16 U | 0.24 U | 0.16 U | 0.37 J | 0.16 U | 0.16 U | 0.16 U | 16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 5 U | 1 U | 10 U | 10 U | 1 U | 5 U | 1 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 11 U | 2.2 U | 22 U | 22 U | 2.2 U | 11 U | 2.2 U | 22 U | 22 U | 2.2 U | 2.2 U | 11 U | 11 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 31 U | 6.1 U | 61 U | 61 U | 6.1 U | 31 U | 6.1 U | 61 U | 61 U | 6.1 U | 6.1 U | 31 U | 31 UJ |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 8 U | 1.6 U | 16 U | 16 U | 1.6 U | 8 U | 1.6 U | 16 U | 16 U | 1.6 U | 1.6 U | 8 U | 8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 12 U | 2.4 U | 24 U | 24 U | 2.4 U | 12 U | 2.4 U | 24 U | 24 U | 2.4 U | 2.4 U | 12 U | 12 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C617-B | LW3-C617-C | LW3-C621-B | LW3-C621-C | LW3-C626-B | LW3-C626-C | LW3-C626-D | LW3-C626-E | LW3-C630-B | LW3-C630-C | LW3-C634-B | LW3-C634-C | LW3-C635-B | LW3-C636-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 113 | 113 - 139 | 30 - 95 | 95 - 198 | 30 - 152 | 152 - 274 | 274 - 500 | 500 - 526 | 30 - 66 | 66 - 199 | 30 - 122 | 122 - 157 | 30 - 193 | 30 - 151 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ | 3.7 U | 11 U | 3.7 U | 0.73 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 UJ | 1.5 UJ | 1.3 UJ | 1.3 UJ | 3.7 U | 3.7 U | 3.7 U | 0.73 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 UJ | 1.6 UJ | 1.3 UJ | 1.3 UJ | 3.7 U | 11 U | 4.8 U | 0.73 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 14 J | 1.7 UJ | 3.3 J | 19 J | 20 J | 16 U | 11 U | 2.1 U | 2.9 NJ | 6.5 J | 6.4 NJ | 4.9 J | 1.3 U | 1.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 U | 1.3 UJ | 3.7 U | 11 U | 3.7 U | 0.73 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 44 J | 2.3 UJ | 11 J | 60 J | 34 | 160 U | 16 NJ | 0.83 U | 11 J | 30 J | 31 J | 22 J | 1.3 U | 1.3 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 38 J | 3.6 J | 5.6 J | 39 J | 24 | 54 | 14 | 0.99 U | 8.8 | 34 J | 49 | 25 J | 1.3 U | 1.3 U |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ | 3.7 U | 3.7 U | 3.7 U | 0.73 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ | 3.7 U | 3.7 U | 3.7 U | 0.73 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 96 JT | 3.6 JT | 19.9 JT | 118 JT | 78 JT | 54 T | 30 JT | 2.1 UT | 22.7 JT | 70.5 JT | 86.4 JT | 51.9 JT | 1.3 UT | 1.3 UT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.57 | 1.98 | 1.95 | 1.64 | 1.64 | 1.66 | 1.58 | 1.65 | 1.72 | 1.35 | 1.5 T | 1.91 | 2.01 | 1.98 |
| Total organic carbon | TOC | percent | 1.66 | 0.09 | 0.42 | 2.35 | 2.23 | 2.48 | 2.94 | 2.64 | 0.83 | 2.15 | 2.3 T | 0.39 | 0.07 | 0.08 |
| Total solids | TSO | percent | 53.3 | 77.2 | 74.1 | 61.9 | 54.7 | 57.9 | 59.5 | 61.8 | 66.1 | 47.4 | 52.6 T | 78.5 | 76.6 | 81.1 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 0.23 | 1.02 | 0.52 | 0 | 0 | 0 | 0 | 0.32 | 0 | 0.393 T | 0.35 | 0.09 | 0 |
| Fine gravel | GS_FG | percent | 0.26 | 0.65 | 1.1 | 1.1 | 0 | 0.27 | 1.39 | 1.72 | 0.62 | 0.1 | 0.727 T | 0.99 | 0.22 | 0.06 |
| Very coarse sand | GS_VCS | percent | 0.17 | 0.4 | 1.16 | 1.17 | 0.44 | 3.2 | 3.42 | 3.48 | 0.53 | 0.21 | 0.683 T | 1.41 | 1.22 | 0.81 |
| Coarse sand | GS_CS | percent | 0.42 | 10.9 | 7.15 | 1.78 | 2.85 | 10.5 | 2.7 | 2.73 | 1.07 | 0.41 | 2.94 T | 18.7 | 16 | 17.3 |
| Medium sand | GS_MS | percent | 3.52 | 57.2 | 49.1 | 19.9 | 3.14 | 5.53 | 1.74 | 2.46 | 42 | 4.74 | 12.1 T | 48 | 69.2 | 70.9 |
| Fine sand | GS_FS | percent | 7.6 | 24.2 | 25.4 | 35.8 | 10.3 | 6.78 | 6.69 | 5.76 | 34.9 | 6.41 | 6.91 T | 8.32 | 13.4 | 8.32 |
| Very fine sand | GS_VFS | percent | 11.8 | 2.01 | 7.01 | 9.83 | 17.5 | 12.2 | 14.6 | 12 | 3.75 | 4.87 | 11 T | 3.72 | 0.53 | 0.29 |
| Fines | GS_FINES | percent | 72 T | 4.71 T | 10.4 T | 26.5 T | 66.7 T | 59.2 T | 56.7 T | 67.7 T | 16.7 T | 84.8 T | 71.2 T | 15.9 T | 0.92 T | 0.45 T |
| Coarse silt | GS_CSILT | percent | 10.3 | 1.62 | 2.25 | 4.16 | 19.3 | 16.4 | 11.3 | 14.7 | 2.28 | 11.8 | 17.8 T | 4 | 0.15 | 0.04 |
| Medium silt | GS_MSILT | percent | 20.8 | 0.82 | 1.94 | 6.37 | 17.8 | 14.7 | 20.7 | 16.9 | 3.52 | 24.6 | 18.3 T | 2.99 | 0.16 | 0.07 |
| Fine silt | GS_FSILT | percent | 14.8 | 0.65 | 2.45 | 5.15 | 10.3 | 9.74 | 4.64 | 14.2 | 3.34 | 19 | 12.5 T | 2.66 | 0.22 | 0.11 |
| Very fine silt | GS_VFSILT | percent | 7.49 | 0.33 | 1.31 | 4.17 | 7.12 | 8.15 | 8.7 | 8.25 | 2.47 | 8.22 | 7.03 T | 2.23 | 0.04 | 0.09 |
| 8-9 Phi clay | GS_CCLAY | percent | 9.05 | 0.46 | 1.04 | 2.61 | 4.38 | 4.38 | 4.39 | 5.18 | 1.87 | 6.84 | 3.87 T | 1.58 | 0.09 | 0 |
| >9 Phi clay | GS_MFCLAY | percent | 9.54 | 0.83 | 1.42 | 4.06 | 7.82 | 5.85 | 6.95 | 8.46 | 3.21 | 14.3 | 11.7 T | 2.48 | 0.26 | 0.14 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 25100 | 12300 | 13200 | 21200 | 30000 | 32000 | 29200 | 25100 | 17700 | 29400 | 30500 T | 10900 | 8970 | 10900 |
| Antimony | 7440-36-0 | mg/kg | 0.32 J | 0.19 J | 0.19 J | 0.2 J | 0.29 J | 0.32 J | 0.33 J | 0.28 J | 0.16 J | 0.33 J | 0.275 JT | 0.2 J | 0.13 J | 0.14 J |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C617-B | LW3-C617-C | LW3-C621-B | LW3-C621-C | LW3-C626-B | LW3-C626-C | LW3-C626-D | LW3-C626-E | LW3-C630-B | LW3-C630-C | LW3-C634-B | LW3-C634-C | LW3-C635-B | LW3-C636-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 113 | 113 - 139 | 30 - 95 | 95 - 198 | 30 - 152 | 152 - 274 | 274 - 500 | 500 - 526 | 30 - 66 | 66 - 199 | 30 - 122 | 122 - 157 | 30 - 193 | 30 - 151 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 3.65 | 1.86 | 2.34 | 3.09 | 3.68 | 3.61 | 3.41 | 3.42 | 2.3 | 3.75 | 3.42 T | 1.97 | 1.58 | 1.83 |
| Cadmium | 7440-43-9 | mg/kg | 0.564 | 0.119 | 0.126 | 0.247 | 0.29 | 0.329 | 0.428 | 0.417 | 0.116 | 0.453 | 0.335 T | 0.176 | 0.048 | 0.055 |
| Chromium | 7440-47-3 | mg/kg | 26.8 | 11.7 | 14.2 | 20.7 | 23 | 23 | 23.6 | 22.6 | 17.9 | 29.8 | 29 T | 12.9 | 9.54 | 11.2 |
| Copper | 7440-50-8 | mg/kg | 47.3 | 15.5 | 21.1 | 30.4 | 42.2 | 39 | 38.2 | 39.9 | 23 | 57.8 | 46.2 T | 20.6 | 13.1 | 14.7 |
| Lead | 7439-92-1 | mg/kg | 28.6 | 4.59 | 9.08 | 20 | 25.1 | 25.7 | 26.2 | 26.8 | 7.15 | 30.9 | 26.4 T | 11.3 | 2.67 | 2.64 |
| Mercury | 7439-97-6 | mg/kg | 0.103 | 0.026 | 0.025 | 0.078 | 0.25 | 0.483 | 0.337 | 0.234 | 0.032 | 0.098 | 0.126 T | 0.043 | 0.013 J | 0.024 |
| Nickel | 7440-02-0 | mg/kg | 25.5 | 17.2 | 19.3 | 24.8 | 23.4 | 23.3 | 22.3 | 22 | 22.4 | 26.3 | 27.9 T | 16.6 | 16.2 | 16.6 |
| Silver | 7440-22-4 | mg/kg | 0.37 | 0.06 | 0.07 | 0.19 | 0.39 | 0.48 | 0.62 | 0.47 | 0.09 | 0.5 | 0.32 T | 0.08 | 0.03 | 0.04 |
| Zinc | 7440-66-6 | mg/kg | 162 | 51.2 | 77.9 | 130 | 179 | 146 | 141 | 134 | 63.5 | 145 | 122 JT | 63.6 | 41.1 | 41.3 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 23 | 34 | 99 | 470 | 400 | 790 | 1700 | 85 | 18 | 11 | 74 | 53 | 0.46 J | 0.31 U |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 40 | 52 | 140 | 450 | 350 | 660 | 2100 | 120 | 29 | 18 | 140 | 87 | 0.67 J | 0.39 J |
| Acenaphthene | 83-32-9 | ug/kg | 220 | 220 | 400 | 2400 | 890 | 1700 | 4500 | 420 | 430 | 94 | 480 | 590 | 0.41 J | 0.42 J |
| Acenaphthylene | 208-96-8 | ug/kg | 37 | 22 | 110 | 280 | 120 | 110 | 430 | 150 | 83 | 28 | 26 | 15 | 0.56 J | 0.24 U |
| Anthracene | 120-12-7 | ug/kg | 95 | 94 | 180 | 1500 | 470 | 990 | 5600 | 670 | 190 | 75 | 120 | 79 | 0.78 J | 0.47 U |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 270 | 130 | 890 | 2500 | 800 | 930 | 5700 | 1300 | 830 | 300 | 240 | 150 | 3.7 | 1 J |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 410 | 190 | 1300 | 3200 | 950 | 1200 | 7900 | 2000 | 1200 | 410 | 240 | 120 | 4.7 | 1 J |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 400 | 170 | 1200 | 2900 | 990 | 1200 | 7500 | 1900 | 1100 | 450 | 260 | 130 | 5 | 1.1 U |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 260 | 120 | 820 | 2000 | | | | | 770 | 270 | 170 | 85 | 3.8 | 0.96 U |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 340 | 180 | 1100 | 2600 | 900 | 1200 | 7500 | 2000 | 1100 | 320 | 200 | 100 | 4.9 | 1.4 J |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 120 | 52 | 390 | 920 | 320 | 350 | 2400 | 550 | 360 | 140 | 89 | 44 | 2.4 | 0.45 U |
| Chrysene | 218-01-9 | ug/kg | 320 | 160 | 1100 | 2900 | 1100 | 1200 | 7300 | 1700 | 1000 | 350 | 280 | 170 | 4.5 | 0.89 U |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 40 | 20 | 130 | 290 | 95 | 120 | 620 | 200 | 140 | 46 | 25 | 13 | 0.71 J | 0.28 U |
| Dibenzothiophene | 132-65-0 | ug/kg | 63 | 110 | 200 | 1400 | 490 | 840 | 3000 | 380 | 230 | 36 | 120 | 110 | 0.21 U | 0.21 U |
| Fluoranthene | 206-44-0 | ug/kg | 650 | 650 | 1900 | 7500 | 2900 | 4300 | 24000 | 4900 | 2200 | 620 | 900 | 780 | 5.1 | 1.5 J |
| Fluorene | 86-73-7 | ug/kg | 120 | 130 | 270 | 1300 | 580 | 1000 | 3000 | 280 | 210 | 50 | 220 | 120 | 0.5 U | 0.5 U |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 340 | 170 | 1100 | 2600 | 780 | 1000 | 6200 | 1900 | 1000 | 330 | 200 | 97 | 4.3 | 1.1 U |
| Naphthalene | 91-20-3 | ug/kg | 84 | 210 | 560 | 1600 | 770 | 650 | 1600 | 580 | 100 | 57 | 230 J | 180 | 1.3 U | 0.97 U |
| Perylene | 198-55-0 | ug/kg | 160 | 61 | 340 | 840 | | | | | 310 | 160 | 110 | 42 | 1.6 J | 0.35 J |
| Phenanthrene | 85-01-8 | ug/kg | 600 | 1100 | 1600 | 10000 | 4600 | 7400 | 29000 | 3900 | 1900 | 370 | 1400 | 1400 | 2 | 1.5 J |
| Pyrene | 129-00-0 | ug/kg | 660 | 750 | 2100 | 8000 | 3300 | 4600 | 27000 | 5500 | 2500 | 670 | 800 | 570 | 9.8 | 2.2 U |
| High Molecular Weight PAH | HPAH | ug/kg | 3600 T | 2500 T | 11000 T | 33000 T | 12000 T | 16000 T | 96000 T | 22000 T | 11000 T | 3600 T | 3200 T | 2200 T | 45 JT | 4.9 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 1200 T | 1800 T | 3300 T | 18000 T | 7800 T | 13000 T | 46000 T | 6100 T | 2900 T | 690 T | 2600 JT | 2500 T | 4.4 JT | 2.3 JT |
| Total PAHs | 130498-29-2 | ug/kg | 4700 T | 4300 T | 14000 T | 51000 T | 20000 T | 29000 T | 140000 T | 28000 T | 14000 T | 4300 T | 5900 JT | 4600 T | 50 JT | 7.2 JT |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 34 | 20 | 80 | 360 | | | | | 66 | 26 | 100 | 62 | 0.21 U | 0.21 U |
| C1-Chrysene | C1_218-01-9 | ug/kg | 200 | 77 | 690 | 1700 | | | | | 550 | 210 | 210 | 110 | 2.6 | 0.61 J |
| C1-Fluorene | C1_86-73-7 | ug/kg | 37 | 46 | 120 | 660 | | | | | 130 | 25 | 93 | 75 | 0.5 U | 0.5 U |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 270 | 160 | 960 | 3200 | | | | | 960 | 280 | 370 | 190 | 4.3 | 1.6 J |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 240 | 290 | 890 | 5000 | | | | | 870 | 180 | 530 | 380 | 1.6 J | 0.95 J |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 84 | 41 | 270 | 1100 | | | | | 200 | 61 | 140 | 89 | 0.21 U | 0.21 U |
| C2-Chrysene | C2_218-01-9 | ug/kg | 130 | 46 | 410 | 980 | | | | | 280 | 160 | 160 | 69 | 1.8 | 0.25 U |
| C2-Fluorene | C2_86-73-7 | ug/kg | 68 | 60 | 220 | 1100 | | | | | 210 | 55 | 160 | 110 | 0.76 J | 0.5 U |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 150 | 150 | 260 | 2400 | | | | | 250 | 63 | 270 | 250 | 1.3 J | 0.55 J |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 200 | 130 | 720 | 3200 | | | | | 580 | 170 | 370 | 270 | 1.7 J | 0.75 U |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 90 | 25 | 230 | 750 | | | | | 150 | 72 | 150 | 79 | 0.21 U | 0.21 U |
| C3-Chrysene | C3_218-01-9 | ug/kg | 77 | 24 | 220 | 570 | | | | | 150 | 74 | 110 | 43 | 0.25 U | 0.25 U |
| C3-Fluorene | C3_86-73-7 | ug/kg | 94 | 53 | 260 | 1200 | | | | | 250 | 71 | 230 | 110 | 0.5 U | 0.5 U |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 130 | 160 | 290 | 2100 | | | | | 350 | 52 | 380 | 350 | 0.95 J | 0.37 U |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 190 | 89 | 620 | 1900 | | | | | 400 | 170 | 310 | 270 | 2.7 | 0.84 J |
| C4-Chrysene | C4_218-01-9 | ug/kg | 41 | 13 | 110 | 250 | | | | | 71 | 47 | 65 | 24 | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 82 | 78 | 200 | 1300 | | | | | 210 | 58 | 270 | 210 | 0.37 U | 0.37 U |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 86 | 25 | 240 | 720 | | | | | 140 | 75 | 130 | 85 | 1.1 J | 0.75 U |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 170 | 62 | 520 | 1700 | | | | | 390 | 170 | 220 | 120 | 2.2 | 0.61 U |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 120 | 34 | 360 | 1000 | | | | | 220 | 110 | 160 | 77 | 1.3 J | 0.61 U |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C617-B | LW3-C617-C | LW3-C621-B | LW3-C621-C | LW3-C626-B | LW3-C626-C | LW3-C626-D | LW3-C626-E | LW3-C630-B | LW3-C630-C | LW3-C634-B | LW3-C634-C | LW3-C635-B | LW3-C636-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 113 | 113 - 139 | 30 - 95 | 95 - 198 | 30 - 152 | 152 - 274 | 274 - 500 | 500 - 526 | 30 - 66 | 66 - 199 | 30 - 122 | 122 - 157 | 30 - 193 | 30 - 151 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C617-B | LW3-C617-C | LW3-C621-B | LW3-C621-C | LW3-C626-B | LW3-C626-C | LW3-C626-D | LW3-C626-E | LW3-C630-B | LW3-C630-C | LW3-C634-B | LW3-C634-C | LW3-C635-B | LW3-C636-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 113 | 113 - 139 | 30 - 95 | 95 - 198 | 30 - 152 | 152 - 274 | 274 - 500 | 500 - 526 | 30 - 66 | 66 - 199 | 30 - 122 | 122 - 157 | 30 - 193 | 30 - 151 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C617-B | LW3-C617-C | LW3-C621-B | LW3-C621-C | LW3-C626-B | LW3-C626-C | LW3-C626-D | LW3-C626-E | LW3-C630-B | LW3-C630-C | LW3-C634-B | LW3-C634-C | LW3-C635-B | LW3-C636-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 113 | 113 - 139 | 30 - 95 | 95 - 198 | 30 - 152 | 152 - 274 | 274 - 500 | 500 - 526 | 30 - 66 | 66 - 199 | 30 - 122 | 122 - 157 | 30 - 193 | 30 - 151 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 1.4 U | 0.57 | 2.4 J | 10 | 17 J | 53 | 27 J | 0.8 U | 2.9 | 4.6 J | 6.1 J | 5.5 J | 0.16 U | 0.16 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.58 U | 0.046 U | 0.046 U | 0.45 U | 3.6 | 18 NJ | 1.9 U | 0.23 U | 0.42 U | 1.1 U | 0.65 U | 2.1 NJ | 0.051 U | 0.046 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 2.6 | 0.22 U | 0.77 U | 4.8 J | 5.5 J | 45 | 2.1 | 0.81 U | 0.061 U | 4.4 J | 3.9 | 3.8 | 0.061 U | 0.061 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 3.2 | 0.71 | 3.7 | 18 | 41 | 130 | 45 | 1.3 U | 8.1 | 4.9 | 11 | 7 | 0.27 J | 0.073 U |
| 4,4'-DDE | 72-55-9 | ug/kg | 5.9 J | 0.14 U | 1.5 NJ | 5.4 NJ | 25 J | 20 U | 6.2 U | 0.14 U | 2 J | 8 J | 7.4 J | 5 J | 0.14 U | 0.027 U |
| 4,4'-DDT | 50-29-3 | ug/kg | 3.2 | 1.7 | 0.74 U | 5.6 U | 48 | 97 | 8.2 | 0.9 U | 37 | 6.1 | 5.9 J | 3.2 | 0.18 U | 0.18 U |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 U | 0.14 U | 1.2 U | 1.2 | 0.71 U | 1.2 U | 0.6 U | 0.12 U | 1.3 U | 0.51 U | 1.4 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.36 U | 0.037 U | 0.53 U | 1.5 U | 0.29 U | 0.19 U | 3 U | 0.81 U | 0.27 U | 0.33 U | 0.13 U | 0.19 U | 0.037 U | 0.037 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.19 U | 0.097 U | 0.097 U | 0.17 | 0.11 J | 0.49 U | 1.5 U | 0.49 U | 0.16 U | 0.53 U | 0.097 U | 0.49 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.85 NJ | 0.13 U | 0.15 U | 0.031 U | 0.19 U | 0.16 U | 1.3 U | 0.48 J | 0.031 U | 0.43 U | 0.19 U | 0.8 J | 0.031 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.29 U | 0.33 U | 0.49 U | 0.14 U | 0.52 U | 0.7 U | 2.3 U | 0.7 U | 0.6 U | 0.74 U | 0.24 U | 0.7 U | 0.24 U | 0.16 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.031 U | 0.031 U | 0.25 U | 0.031 U | 0.16 U | 1.4 U | 0.72 U | 0.55 U | 0.17 U | 0.031 U | 0.16 U | 0.031 U | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 2 U | 0.17 U | 0.31 U | 2.3 U | 4.4 NJ | 2.7 U | 1.6 U | 0.44 U | 0.087 U | 1.1 U | 2.1 U | 0.44 U | 0.087 U | 0.087 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.12 U | 0.11 U | 0.22 U | 0.47 U | 1.1 NJ | 0.55 U | 1.4 U | 0.55 U | 0.35 J | 0.89 J | 0.66 U | 0.55 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.45 U | 0.13 U | 0.21 U | 0.53 U | 0.33 U | 0.86 U | 1.7 U | 0.81 U | 0.16 U | 1.1 U | 0.19 U | 0.4 U | 0.03 U | 0.03 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.058 U | 0.18 U | 0.41 U | 0.26 U | 0.86 U | 0.58 U | 0.29 U | 0.23 U | 0.31 U | 0.19 U | 0.29 U | 0.058 U | 0.058 U |
| Endrin | 72-20-8 | ug/kg | 0.42 U | 0.079 U | 0.74 NJ | 1.2 NJ | 1 J | 2.6 U | 1.5 J | 4 NJ | 0.57 NJ | 0.38 U | 0.12 U | 0.36 U | 0.071 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.44 U | 0.25 J | 0.14 U | 1.4 U | 0.21 U | 2.4 U | 1.7 U | 0.21 U | 0.46 U | 1.6 U | 0.042 U | 0.57 U | 0.042 U | 0.042 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.53 U | 0.21 NJ | 0.21 U | 2.8 NJ | 0.81 U | 1.6 U | 3.6 U | 1.3 U | 0.3 U | 1.1 U | 0.53 U | 0.78 U | 0.029 U | 0.029 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.62 | 0.14 U | 0.97 J | 1 | 0.6 U | 2.1 U | 5.2 U | 2.3 U | 0.44 U | 1.1 U | 0.37 U | 0.64 U | 0.062 U | 0.15 U |
| Heptachlor | 76-44-8 | ug/kg | 0.56 U | 0.076 U | 0.091 U | 0.77 U | 0.47 U | 0.6 U | 0.76 U | 0.38 U | 0.076 U | 1.2 U | 0.19 U | 0.54 U | 0.076 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 1.9 NJ | 0.073 U | 0.27 U | 0.75 U | 0.7 U | 0.86 U | 0.68 U | 0.34 U | 0.15 U | 1.5 U | 0.49 U | 0.34 U | 0.073 U | 0.068 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.91 J | 0.1 U | 0.26 U | 0.61 U | 0.73 U | 1.5 U | 2.1 U | 0.68 U | 0.41 U | 0.74 U | 0.075 U | 0.64 U | 0.075 U | 0.14 |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.18 U | 0.12 U | 0.6 U | 1.2 U | 0.6 U | 0.12 U | 0.64 U | 0.12 U | 0.6 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.31 U | 0.061 U | 0.58 U | 0.91 U | 0.67 U | 1.3 U | 3 J | 0.31 U | 0.22 U | 0.33 U | 0.19 U | 0.31 U | 0.14 U | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 2 UT | 0.14 JT | 0.52 JT | 2.3 UT | 4.4 JT | 5.5 UT | 3 JT | 0.72 UT | 0.55 UT | 0.28 JT | 2.1 UT | 0.64 UT | 0.14 UT | 0.087 UT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C617-B | LW3-C617-C | LW3-C621-B | LW3-C621-C | LW3-C626-B | LW3-C626-C | LW3-C626-D | LW3-C626-E | LW3-C630-B | LW3-C630-C | LW3-C634-B | LW3-C634-C | LW3-C635-B | LW3-C636-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 113 | 113 - 139 | 30 - 95 | 95 - 198 | 30 - 152 | 152 - 274 | 274 - 500 | 500 - 526 | 30 - 66 | 66 - 199 | 30 - 122 | 122 - 157 | 30 - 193 | 30 - 151 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.85 JT | 0.13 UT | 0.53 UT | 1.5 UT | 0.29 UT | 0.86 UT | 3 UT | 0.48 JT | 0.27 UT | 0.43 UT | 0.19 UT | 0.8 JT | 0.058 UT | 0.058 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 3.2 T | 1.3 T | 6.1 JT | 28 T | 58 JT | 180 T | 72 JT | 1.3 UT | 11 T | 9.5 JT | 17 JT | 13 JT | 0.27 JT | 0.16 UT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 15 JT | 3 T | 7.6 JT | 38 JT | 140 JT | 340 JT | 82 JT | 1.3 UT | 50 JT | 28 JT | 34 JT | 27 JT | 0.27 JT | 0.18 UT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 5.9 JT | 0.14 UT | 1.5 JT | 5.4 JT | 29 JT | 18 JT | 6.2 UT | 0.23 UT | 2 JT | 8 JT | 7.4 JT | 7.1 JT | 0.14 UT | 0.046 UT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 5.8 T | 1.7 T | 0.77 UT | 4.8 JT | 54 JT | 140 T | 10 T | 0.9 UT | 37 T | 11 JT | 9.8 JT | 7 T | 0.18 UT | 0.18 UT |
| Toxaphene | 8001-35-2 | ug/kg | 75 U | 6.1 U | 49 U | 77 U | 120 U | 130 U | 150 U | 75 U | 55 U | 77 U | 49 U | 61 U | 3.6 U | 3.4 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.98 U | 0.027 U | 0.26 U | 1.7 U | 0.45 U | 5.5 U | 1.7 U | 0.14 U | 0.027 U | 1.2 U | 0.35 U | 0.64 U | 0.027 U | 0.027 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.35 U | 0.14 J | 0.52 J | 0.56 U | 0.31 U | 0.17 U | 1.7 U | 0.17 U | 0.24 U | 0.28 NJ | 0.19 U | 0.17 U | 0.034 U | 0.034 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 270 J | 30 J | 110 J | 420 J | 500 J | 620 J | 990 J | 420 J | 92 J | 360 J | 255 JT | 110 J | 2.7 J | 1.5 U |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 240 J | 23 J | 83 J | 300 J | 410 J | 490 J | 760 J | 350 J | 63 J | 330 J | 247 JT | 83 J | 1.6 U | 1.5 U |
| Residual Range Hydrocarbons | RRH | mg/kg | 670 J | 64 J | 180 J | 600 J | 830 J | 960 J | 1400 J | 890 J | 200 J | 930 J | 560 JT | 200 J | 20 U | 3.6 U |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 510 J | 41 U | 110 J | 350 J | 600 J | 680 J | 960 J | 590 J | 98 J | 670 J | 424 JT | 120 J | 8.6 U | 5.7 U |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 940 JA | 94 JA | 290 JA | 1020 JA | 1330 JA | 1580 JA | 2390 JA | 1310 JA | 292 JA | 1290 JA | 815 JA | 310 JA | 2.7 JA | 3.6 UA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 750 JA | 23 JA | 193 JA | 650 JA | 1010 JA | 1170 JA | 1720 JA | 940 JA | 161 JA | 1000 JA | 671 JA | 203 JA | 8.6 UA | 5.7 UA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.39 U | 0.27 U | 0.28 U | 0.34 U | 0.88 U | 0.67 U | 0.74 U | 0.33 U | 0.32 U | 0.45 U | 0.39 U | 0.26 U | 0.28 U | 0.26 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 1.4 U | 0.22 U | 0.23 U | 0.28 U | 0.31 U | 0.54 J | 0.44 J | 0.27 U | 0.26 U | 1.5 U | 0.8 J | 0.25 U | 0.23 U | 0.21 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 3.7 U | 6.4 U | 5.6 U | 0.89 U | 9.1 U | 8 U | 2.1 U | 0.86 U | 2 U | 8 NJ | 1.1 U | 1.5 U | 5.9 U | 1.5 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.21 U | 0.14 U | 0.51 U | 0.99 U | 0.68 J | 0.89 J | 0.56 J | 0.18 U | 0.17 U | 0.24 U | 0.21 U | 0.14 U | 0.15 U | 0.14 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 5 U | 1 U | 5 U | 10 U | 20 U | 20 U | 100 U | 40 U | 1 U | 1.1 U | 5 U | 1 U | 1 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | R | R | R | 110 U | 110 U | 550 U | 220 U | R | R | R | R | R | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 85 U | 17 U | 85 U | 170 U | 340 U | 340 U | 1700 U | 680 U | 17 U | 18 U | 85 UJ | 17 U | 17 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 10 U | 2 U | 10 U | 20 U | 40 U | 40 U | 200 U | 80 U | 2 U | 2.2 U | 10 U | 2 U | 2 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 7.5 U | 1.5 U | 7.5 U | 15 U | 30 U | 30 U | 150 U | 60 U | 1.5 U | 1.6 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 7.5 U | 1.5 U | 7.5 U | 15 U | 30 U | 30 U | 150 U | 60 U | 1.5 U | 1.6 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 7 U | 1.4 U | 7 U | 14 U | 28 U | 28 U | 140 U | 56 U | 1.4 U | 1.5 U | 7 UJ | 1.4 U | 1.4 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 7 U | 1.4 U | 7 U | 14 U | 28 U | 28 U | 140 U | 56 U | 1.4 U | 1.5 U | 7 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 7.5 U | 1.5 U | 7.5 U | 120 | 110 J | 30 U | 150 U | 190 J | 2.4 J | 18 | 34 J | 3.5 J | 1.5 U | 1.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 90 U | 18 U | 90 U | 180 U | 360 U | 360 U | 1800 U | 720 U | 18 U | 19 U | 90 U | 18 U | 18 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 9 U | 0.21 U | 0.21 U | 4.3 U | 2.9 J | 5.7 J | 5.3 J | 1.2 NJ | 0.82 U | 11 U | 9.3 U | 3.9 NJ | 0.21 U | 0.2 U |
| Phenol | 108-95-2 | ug/kg | 10 U | 2.5 J | 10 U | 20 U | 40 U | 40 U | 200 U | 80 U | 5 J | 11 J | 10 U | 2.8 J | 2 U | 2.1 J |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 140 | 7 U | 160 | 70 U | 140 U | 140 U | 700 U | 280 U | 27 | 210 | 89 J | 7.6 J | 7 U | 7 U |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 16 U | 3.2 U | 16 U | 32 U | 64 U | 64 U | 320 U | 130 U | 3.2 U | 20 | 16 U | 8.3 | 4.5 J | 3.2 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 40 U | 7.9 U | 40 U | 79 U | 160 U | 160 U | 790 U | 320 U | 7.9 U | 14 | 40 U | 7.9 U | 8.1 | 7.9 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 6.5 U | 1.3 U | 6.5 U | 13 U | 26 U | 26 U | 130 U | 52 U | 1.3 U | 3.4 J | 6.5 U | 1.3 U | 1.3 U | 1.3 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 5 U | 1 U | 5 U | 10 U | 20 U | 20 U | 100 U | 40 U | 1 U | 1.1 U | 5 U | 1 U | 1 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 8.5 U | 1.7 U | 8.5 U | 17 U | 34 U | 34 U | 170 U | 68 U | 1.7 U | 1.8 U | 8.5 U | 1.7 U | 1.7 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 13 U | 2.6 U | 13 U | 26 U | 52 U | 52 U | 260 U | 110 U | 2.6 U | 2.8 U | 13 U | 2.6 U | 2.6 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 15 U | 2.9 U | 15 U | 29 U | 58 U | 58 U | 290 U | 120 U | 2.9 U | 3.1 U | 15 U | 2.9 U | 2.9 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 15 U | 3 U | 15 U | 30 U | 60 U | 60 U | 300 U | 120 U | 3 U | 3.2 U | 15 U | 3 U | 3 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 15 U | 2.9 U | 15 U | 29 U | 58 U | 58 U | 290 U | 120 U | 2.9 U | 3.1 U | 15 U | 2.9 U | 2.9 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 7.5 U | 1.5 U | 7.5 U | 15 U | 30 U | 30 U | 150 U | 60 U | 1.5 U | 1.6 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 10 U | 2 U | 10 U | 20 U | 40 U | 40 U | 200 U | 80 U | 2 U | 2.2 U | 10 U | 2 U | 2 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 8 U | 1.6 U | 8 U | 16 U | 32 U | 32 U | 160 U | 64 U | 1.6 U | 1.7 U | 8 U | 1.6 U | 1.6 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 16 U | 3.2 U | 16 U | 32 U | 64 U | 64 U | 320 U | 130 U | 3.2 U | 3.4 U | 16 U | 3.2 U | 3.2 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 19 U | 3.7 U | 19 U | 37 U | 74 U | 74 U | 370 U | 150 U | 3.7 U | 4 U | R | 3.7 U | 6.6 J | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 13 U | 2.5 U | 13 U | 25 U | 50 U | 50 U | 250 U | 100 U | 2.5 U | 2.7 U | 13 U | 2.5 U | 2.5 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 8 U | 1.6 U | 8 U | 16 U | 32 U | 32 U | 160 U | 64 U | 1.6 U | 1.7 U | 8 U | 1.6 U | 1.6 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 9.5 U | 1.9 U | 9.5 U | 19 U | 38 U | 38 U | 190 U | 76 U | 1.9 U | 2.1 U | 9.5 UJ | 1.9 U | 1.9 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 7 U | 1.4 U | 7 U | 14 U | 28 U | 28 U | 140 U | 56 U | 1.4 U | 1.5 U | 7 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 9 U | 1.8 U | 9 U | 18 U | 36 U | 36 U | 180 U | 72 U | 1.8 U | 1.9 U | 9 U | 1.8 U | 1.8 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 7.5 U | 1.5 U | 7.5 U | 15 U | 30 U | 30 U | 150 U | 60 U | 1.5 U | 1.6 U | R | 1.5 U | 1.5 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 5.5 U | 1.1 U | 5.5 U | 11 U | 22 U | 22 U | 110 U | 44 U | 1.1 U | 1.2 U | 5.5 U | 1.1 U | 1.1 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 480 UJ | 96 UJ | 480 UJ | 960 UJ | R | R | R | R | 96 UJ | 110 UJ | 480 UJ | 96 UJ | 96 UJ | 96 UJ |
| Benzyl alcohol | 100-51-6 | ug/kg | 11 U | 2.9 J | 11 U | 21 U | 42 U | 42 U | 210 U | 84 U | 3.4 J | 17 | 11 U | 3.5 J | 23 | 2.3 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 7.5 U | 1.5 U | 7.5 U | 15 U | 30 U | 30 U | 150 U | 60 U | 1.5 U | 1.6 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 9.5 U | 1.9 U | 9.5 U | 19 U | 38 U | 38 U | 190 U | 76 U | 1.9 U | 2.1 U | 9.5 U | 1.9 U | 1.9 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 13 U | 2.6 U | 13 U | 26 U | 52 UJ | 52 UJ | 260 UJ | 110 U | 2.6 U | 2.8 U | 13 U | 2.6 U | 2.6 U | 2.6 U |
| Carbazole | 86-74-8 | ug/kg | 13 J | 7.4 | 88 | 100 | 63 J | 110 J | 390 J | 67 J | 21 | 23 | 17 J | 7.1 | 1.3 U | 1.3 U |
| Dibenzofuran | 132-64-9 | ug/kg | 30 | 13 | 81 | 290 | 89 | 120 | 320 | 41 | 19 | 17 | 95 | 53 | 0.59 U | 0.59 U |
| Hexachlorobenzene | 118-74-1 | ug/kg | 6 U | 0.068 U | 0.27 J | 0.53 J | 0.77 | 1.1 | 1.5 U | 0.34 U | 0.29 U | 1.3 U | 0.31 U | 0.34 U | 0.068 U | 0.069 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C617-B | LW3-C617-C | LW3-C621-B | LW3-C621-C | LW3-C626-B | LW3-C626-C | LW3-C626-D | LW3-C626-E | LW3-C630-B | LW3-C630-C | LW3-C634-B | LW3-C634-C | LW3-C635-B | LW3-C636-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 113 | 113 - 139 | 30 - 95 | 95 - 198 | 30 - 152 | 152 - 274 | 274 - 500 | 500 - 526 | 30 - 66 | 66 - 199 | 30 - 122 | 122 - 157 | 30 - 193 | 30 - 151 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.33 U | 0.27 U | 0.44 U | 0.28 U | 0.15 U | 0.7 U | 1.4 U | 0.7 U | 0.14 U | 0.74 U | 0.14 U | 0.7 U | 0.14 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 150 UJ | 29 UJ | 150 UJ | 290 UJ | 580 U | 580 U | 2900 U | 1200 U | 29 UJ | 31 UJ | R | 29 UJ | 29 UJ | 29 UJ |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.16 U | 0.16 U | 0.43 J | 0.16 U | 0.8 U | 1.6 U | 0.8 U | 0.18 U | 0.85 U | 0.16 U | 0.8 U | 0.16 U | 0.54 J |
| Isophorone | 78-59-1 | ug/kg | 5 U | 1 U | 5 U | 10 U | 20 U | 20 U | 100 U | 40 U | 1 U | 1.1 U | 5 U | 1 U | 1 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 11 U | 2.2 U | 11 U | 22 U | 44 U | 44 U | 220 U | 88 U | 2.2 U | 2.4 U | 11 U | 2.2 U | 2.2 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 31 U | 6.1 U | 31 U | 61 U | 130 U | 130 U | 610 U | 250 U | 6.1 U | 6.5 U | 31 UJ | 6.1 U | 6.1 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 8 U | 1.6 U | 8 U | 16 U | 32 U | 32 U | 160 U | 64 U | 1.6 U | 1.7 U | 8 U | 1.6 U | 1.6 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 12 U | 2.4 U | 12 U | 24 U | 48 U | 48 U | 240 U | 96 U | 2.4 U | 2.6 U | 12 U | 2.4 U | 2.4 U | 2.4 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C636-C | LW3-C636-D | LW3-C640-B | LW3-C640-C | LW3-C644-B1 | LW3-C644-B2 | LW3-C644-C1 | LW3-C644-C2 | LW3-C645-B | LW3-C645-C | LW3-C648-B | LW3-C648-C | LW3-C648-D | LW3-C651-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 151 - 273 | 273 - 332 | 30 - 95 | 95 - 132 | 30 - 151 | 30 - 151 | 151 - 275 | 151 - 273 | 30 - 120 | 120 - 175 | 30 - 151 | 151 - 253 | 253 - 338 | 30 - 128 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 1 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 4.1 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 1 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 4.1 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 1 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 4.1 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.3 U | 1 U | 6 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.1 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 4.1 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 4.1 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 1.3 U | 1 U | 15 J | 2.9 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 4.1 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 1.3 U | 1 U | 7.3 NJ | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 33 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 4.1 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1 U | 1.3 U | 1.3 U | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 13 J |
| Aroclors | 12767-79-2 | ug/kg | 1.3 UT | 1 UT | 22.3 JT | 2.9 UT | 1.3 UT | 1.3 UT | 1.3 UT | 1.3 UT | 1.1 UT | 0.73 UT | 1.3 UT | 1.3 UT | 1.3 UT | 46 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 2.12 | | 1.52 | 1.89 | 1.95 | 1.99 T | 1.98 | 1.96 T | 1.81 | 1.84 | 1.82 | 1.87 | 1.72 | 1.55 |
| Total organic carbon | TOC | percent | 0.02 J | 0.2 | 1.63 | 2.21 | 0.02 J | 0.04 JT | 0.06 | 0.02 UT | 0.11 | 0.38 | 0.18 | 0.03 J | 0.47 | 8.16 |
| Total solids | TSO | percent | 82.1 | 77 | 55.5 | 73.4 | 80.1 | 78.2 T | 83.4 | 78 T | 70.4 | 71.1 | 71.6 | 74.7 | 69.3 T | 45.6 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | 0.0651 J | 0.0537 JT | 0.00219 U | 0.00296 UT | 0.0106 U | 0.185 J | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | 0.0044 U | 0.00671 UT | 0.0047 U | 0.00755 UT | 0.0166 U | 0.194 J | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | 0.125 J | 0.193 JT | 0.13 J | 0.0578 JT | 0.467 J | 0.874 J | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | 0.354 U | 1.11 JT | 0.486 U | 0.0501 UT | 1.86 J | 2.76 | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | 2.1 U | 3.34 UT | 1.64 U | 0.365 UT | 8.43 | 11.4 | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | 0.00322 U | 0.00371 UT | 0.00478 U | 0.00581 UT | 0.0506 J | 0.05 J | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | 0.00457 U | 0.00531 UT | 0.00446 U | 0.00345 UT | 0.508 J | 0.108 J | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | 0.0053 U | 0.00471 UT | 0.00399 U | 0.00404 UT | 4.58 | 0.183 J | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | 0.00983 U | 0.00997 UT | 0.0114 U | 0.00869 UT | 3.54 | 0.528 J | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | 0.016 U | 0.0496 UJT | 0.0129 U | 0.0107 UT | 1.28 J | 0.411 J | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | 0.19 JT | 1.36 JT | 0.13 JT | 0.0578 JT | 20.7 JT | 16.7 JT | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | 0.002 U | 0.0026 UT | 0.00219 U | 0.00296 UT | 0.0106 U | 0.0126 U | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | 0.0044 U | 0.00671 UT | 0.0047 U | 0.00755 UT | 0.0166 U | 0.0154 U | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | 0.00913 U | 0.00775 UT | 0.00767 U | 0.00718 UT | 0.0265 U | 0.0181 U | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | 0.0105 U | 0.0089 UT | 0.00849 U | 0.00831 UT | 0.029 U | 0.0191 U | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | 0.00917 U | 0.00779 UT | 0.00755 U | 0.00725 UT | 0.026 U | 0.0174 U | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | 0.165 UJ | 0.279 UT | 0.159 U | 0.0501 UT | 0.788 J | 1.06 J | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | 0.00322 U | 0.00371 UT | 0.00478 U | 0.00581 UT | 0.0386 U | 0.0132 U | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | 0.00432 U | 0.00495 UT | 0.00423 U | 0.00323 UT | 0.305 J | 0.00947 U | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | 0.00457 U | 0.00531 UT | 0.00446 U | 0.00345 UT | 0.0449 J | 0.00886 U | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | 0.0053 U | 0.00471 UT | 0.00399 U | 0.00404 UT | 2.66 | 0.048 J | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | 0.00571 U | 0.00531 UT | 0.00431 U | 0.00465 UT | 1.46 J | 0.0125 U | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | 0.00546 U | 0.00479 UT | 0.00423 U | 0.00478 UT | 0.0171 U | 0.0136 U | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | 0.00567 U | 0.00523 UT | 0.00442 U | 0.00486 UT | 0.122 J | 0.012 U | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | 0.00983 U | 0.0262 JT | 0.0114 U | 0.00869 UT | 3.15 | 0.103 J | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | 0.0129 U | 0.00874 UT | 0.0149 U | 0.0111 UT | 0.392 J | 0.199 J | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | 0.0044 UT | 0.00026 JT | 0.0047 UT | 0.00755 UT | 0.493 JT | 0.022 JT | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | 7E-05 JT | 0.00051 JT | 0.15 UT | 0.00022 JT | 0.493 JA | 0.022 JA | | | | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | | 0.15 | 2.15 | 0 | 0.075 T | 0 | 0 T | 0 | 4.42 | 0.64 | 0.15 | 0.71 | 0.29 |
| Fine gravel | GS_FG | percent | 0.07 | | 1.9 | 5.33 | 0.24 | 0.21 T | 0.03 | 0.045 T | 0.29 | 1.29 | 0.3 | 0.03 | 0.41 | 2.13 |
| Very coarse sand | GS_VCS | percent | 0.32 | | 2.26 | 3.07 | 0.73 | 1.21 T | 0.52 | 0.5 T | 0.25 | 0.35 | 0.27 | 0.03 | 0.24 | 4.85 |
| Coarse sand | GS_CS | percent | 9.46 | | 6.56 | 3.13 | 21.1 | 22.8 T | 17.5 | 19.7 T | 4.8 | 3.9 | 8.1 | 1.48 | 3.17 | 4.97 |
| Medium sand | GS_MS | percent | 77.9 | | 14.7 | 8.91 | 69.5 | 67.5 T | 71.4 | 70.9 T | 84.2 | 74.6 | 74.8 | 87.2 | 57.6 | 4.94 |
| Fine sand | GS_FS | percent | 10.7 | | 10.6 | 20.6 | 7.9 | 7.75 T | 7.79 | 8.04 T | 9.95 | 10.8 | 9.06 | 9.65 | 16.5 | 7.32 |
| Very fine sand | GS_VFS | percent | 0.36 | | 9.97 | 19.7 | 0.3 | 0.45 T | 0.44 | 0.225 T | 0.72 | 0.8 | 0.68 | 0.28 | 0.13 | 13.9 |
| Fines | GS_FINES | percent | 0.78 T | | 53.6 T | 39.2 T | 0.87 T | 1.01 T | 1.95 T | 0.51 T | 1.84 T | 5.09 T | 6.8 T | 0.84 T | 18 T | 61.5 T |
| Coarse silt | GS_CSILT | percent | 0.13 | | 12.2 | 13.7 | 0.11 | 0.185 T | 0.23 | 0.075 T | 0.49 | 0.64 | 0.96 | 0.26 | 3.34 | 13.1 |
| Medium silt | GS_MSILT | percent | 0.16 | | 13.9 | 9.32 | 0.08 | 0.23 T | 0.34 | 0.09 T | 0.39 | 1.46 | 1.39 | 0.13 | 4.26 | 14.7 |
| Fine silt | GS_FSILT | percent | 0.18 | | 9.8 | 6.75 | 0.33 | 0.23 T | 0.2 | 0.125 T | 0.42 | 1.13 | 1.9 | 0.14 | 4.25 | 12.7 |
| Very fine silt | GS_VFSILT | percent | 0.13 | | 5.85 | 3.37 | 0.1 | 0.085 T | 0.34 | 0.075 T | 0.23 | 0.67 | 0.93 | 0.05 | 2.1 | 7.33 |
| 8-9 Phi clay | GS_CCLAY | percent | 0.02 | | 1.13 | 1.41 | 0.1 | 0.07 T | 0.21 | 0.05 T | 0.07 | 0.42 | 0.22 | 0.13 | 1.07 | 4.47 |
| >9 Phi clay | GS_MFCLAY | percent | 0.16 | | 10.7 | 4.63 | 0.15 | 0.21 T | 0.63 | 0.095 T | 0.24 | 0.77 | 1.4 | 0.13 | 2.95 | 9.19 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 10900 | 10100 | 20900 | 18300 | 10800 | 10600 T | 9600 | 9980 T | 13000 | 13800 | 11400 | 12100 | 18000 | 26700 |
| Antimony | 7440-36-0 | mg/kg | 0.14 J | 0.03 J | 0.24 J | 0.29 J | 0.14 J | 0.14 JT | 0.15 J | 0.143 JT | 0.16 J | 0.15 J | 0.14 J | 0.15 J | 0.15 J | 0.35 J |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C636-C | LW3-C636-D | LW3-C640-B | LW3-C640-C | LW3-C644-B1 | LW3-C644-B2 | LW3-C644-C1 | LW3-C644-C2 | LW3-C645-B | LW3-C645-C | LW3-C648-B | LW3-C648-C | LW3-C648-D | LW3-C651-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 151 - 273 | 273 - 332 | 30 - 95 | 95 - 132 | 30 - 151 | 30 - 151 | 151 - 275 | 151 - 273 | 30 - 120 | 120 - 175 | 30 - 151 | 151 - 253 | 253 - 338 | 30 - 128 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 1.83 | 1.58 | 2.69 | 5.06 | 1.6 | 1.51 T | 1.59 | 1.52 T | 2.35 | 2.56 | 1.58 | 1.77 | 2.9 | 4.07 |
| Cadmium | 7440-43-9 | mg/kg | 0.055 | 0.049 J | 0.226 | 0.111 | 0.051 | 0.046 T | 0.045 | 0.0485 T | 0.053 | 0.052 | 0.056 | 0.052 | 0.082 | 0.624 |
| Chromium | 7440-47-3 | mg/kg | 11.3 | 10.3 | 22.3 | 16.8 | 11 | 10.1 T | 11.1 | 10.9 T | 8.81 | 10.5 | 10.8 | 10.9 | 18.3 | 25 |
| Copper | 7440-50-8 | mg/kg | 14.8 | 12.4 | 40.6 | 25.1 | 14.9 | 13.7 T | 13.6 | 13.4 T | 13.9 | 15.2 | 14 | 13.7 | 21.8 | 53 |
| Lead | 7439-92-1 | mg/kg | 2.26 | 2.25 | 17.2 | 8.61 | 2.24 | 2.33 T | 2.04 | 2.25 T | 3.52 | 3.72 | 3.57 | 2.58 | 3.82 | 62.2 |
| Mercury | 7439-97-6 | mg/kg | 0.01 J | 0.009 J | 0.099 | 0.033 | 0.008 J | 0.0095 JT | 0.008 J | 0.0095 JT | 0.028 | 0.013 J | 0.029 | 0.015 J | 0.018 | 0.608 |
| Nickel | 7440-02-0 | mg/kg | 17.7 | 15.4 | 21.5 | 20.8 | 16.5 | 15 T | 16.2 | 15.5 T | 13.3 | 15.1 | 14.3 | 14.9 | 20.6 | 20.6 J |
| Silver | 7440-22-4 | mg/kg | 0.04 | 0.06 | 0.29 | 0.14 | 0.04 | 0.04 T | 0.04 | 0.04 T | 0.11 | 0.11 | 0.05 | 0.05 | 0.06 | 0.65 |
| Zinc | 7440-66-6 | mg/kg | 39.6 | 45.4 | 103 | 67.1 | 40.2 | 41.7 T | 40.8 | 40.8 T | 53 | 53.9 | 43.3 | 43.7 | 47 | 213 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 0.31 U | 0.31 U | 19 | 4.5 | 0.31 U | 0.31 UT | 0.31 U | 0.31 UT | 0.31 U | 0.5 J | 23 | 0.56 J | 0.31 U | 1000 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 0.39 U | 0.39 U | 38 | 9.2 | 0.39 U | 0.39 UT | 0.39 U | 0.39 UT | 0.39 U | 0.39 U | 31 | 0.39 U | 0.39 U | 1000 |
| Acenaphthene | 83-32-9 | ug/kg | 0.49 J | 0.23 U | 120 | 39 | 0.23 U | 0.23 UT | 0.23 U | 0.23 UT | 6.3 | 9.5 | 1200 | 8.3 | 16 | 1500 |
| Acenaphthylene | 208-96-8 | ug/kg | 0.24 U | 0.24 U | 28 | 6.1 | 0.24 U | 0.24 UT | 0.24 U | 0.24 UT | 0.48 J | 0.24 U | 66 | 0.24 U | 0.24 U | 110 |
| Anthracene | 120-12-7 | ug/kg | 0.47 U | 0.47 U | 82 | 32 | 0.47 U | 0.47 UT | 2 | 0.47 UT | 1.6 J | 0.47 U | 660 | 0.47 U | 0.47 U | 400 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 0.48 U | 0.48 U | 310 | 97 | 0.48 U | 0.5 JT | 2.7 | 0.48 UT | 2.5 | 0.74 J | 690 | 0.48 U | 0.48 U | 610 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 0.14 U | 0.14 U | 470 | 140 | 0.14 U | 0.14 UT | 2.1 | 0.14 UT | 2.9 | 0.6 U | 1100 | 0.14 U | 0.14 U | 730 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 0.25 U | 0.25 U | 460 | 130 | 0.25 U | 0.25 UT | 2.8 | 0.25 UT | 3.5 | 0.74 U | 1100 | 0.25 U | 0.25 U | 770 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 0.18 U | 0.18 U | | | 0.18 U | 0.18 UT | 0.18 U | 0.18 UT | 2.7 | 0.54 U | 560 | 0.18 U | 0.18 U | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 0.64 U | 0.64 U | 410 | 150 | 0.64 U | 0.64 UT | 2.6 | 0.64 UT | 3 | 0.77 J | 680 | 0.64 U | 0.64 U | 670 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 0.15 U | 0.15 U | 150 | 42 | 0.15 U | 0.15 UT | 2.9 | 0.15 UT | 1.1 J | 0.26 J | 260 | 0.15 U | 0.15 U | 220 |
| Chrysene | 218-01-9 | ug/kg | 0.25 U | 0.25 U | 360 | 130 | 0.25 U | 0.25 UT | 3.2 | 0.25 UT | 3.4 | 0.74 U | 1000 | 0.25 U | 0.25 U | 750 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 0.28 U | 0.28 U | 48 | 12 | 0.28 U | 0.28 UT | 2.1 | 0.28 UT | 0.33 J | 0.29 J | 90 | 0.28 U | 0.28 U | 73 |
| Dibenzothiophene | 132-65-0 | ug/kg | 0.21 U | 0.21 U | 56 | 36 | 0.21 U | 0.21 UT | 0.21 U | 0.21 UT | 2.1 | 0.57 J | 430 | 0.21 U | 0.21 U | 310 |
| Fluoranthene | 206-44-0 | ug/kg | 0.61 U | 0.61 U | 790 | 340 | 0.61 U | 0.67 JT | 3.3 | 0.61 UT | 9.8 | 2.6 U | 3000 | 0.61 U | 0.61 U | 2400 |
| Fluorene | 86-73-7 | ug/kg | 0.5 U | 0.5 U | 85 | 38 | 0.5 U | 0.5 UT | 0.53 J | 0.5 UT | 0.74 J | 0.5 U | 510 | 0.5 U | 0.5 U | 790 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 0.16 U | 0.16 U | 420 | 140 | 0.16 U | 0.16 UT | 3.2 | 0.16 UT | 2.1 U | 0.59 U | 940 | 0.38 U | 0.16 U | 610 |
| Naphthalene | 91-20-3 | ug/kg | 0.67 U | 0.39 J | 87 | 35 | 0.67 U | 0.42 UT | 0.56 U | 0.37 UT | 0.96 U | 2.3 U | 140 | 1.1 U | 0.78 U | 1500 |
| Perylene | 198-55-0 | ug/kg | 0.32 U | 1.7 | | | 0.32 U | 0.32 UT | 0.32 U | 1.1 JT | 4 | 10 J | 250 | 0.32 U | 36 | |
| Phenanthrene | 85-01-8 | ug/kg | 0.75 U | 0.75 U | 600 | 380 | 0.75 U | 0.75 UT | 1.9 | 0.75 UT | 13 | 5.7 | 4600 | 0.81 U | 0.75 U | 2900 |
| Pyrene | 129-00-0 | ug/kg | 0.37 U | 0.37 U | 780 | 390 | 0.37 U | 0.37 UT | 3.2 | 0.37 UT | 13 | 2.8 | 3300 | 0.39 U | 0.37 U | 2500 |
| High Molecular Weight PAH | HPAH | ug/kg | 0.64 UT | 0.64 UT | 4200 T | 1600 T | 0.64 UT | 1.2 JT | 28 T | 0.64 UT | 40 JT | 4.9 JT | 12000 T | 0.64 UT | 0.64 UT | 9300 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 0.49 JT | 0.39 JT | 1000 T | 540 T | 0.75 UT | 0.75 UT | 4.4 JT | 0.75 UT | 22 JT | 15 T | 7200 T | 8.3 T | 16 T | 8200 T |
| Total PAHs | 130498-29-2 | ug/kg | 0.49 JT | 0.39 JT | 5200 T | 2100 T | 0.75 UT | 1.2 JT | 33 JT | 0.75 UT | 62 JT | 20 JT | 19000 T | 8.3 T | 16 T | 18000 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 0.21 U | 0.21 U | | | 0.21 U | 0.21 UT | 0.21 U | 0.21 UT | 0.21 U | 0.21 U | 46 | 0.21 U | 0.21 U | |
| C1-Chrysene | C1_218-01-9 | ug/kg | 0.25 U | 0.25 U | | | 0.25 U | 0.25 UT | 0.25 U | 0.25 UT | 1.8 J | 0.25 U | 340 | 0.25 U | 0.25 U | |
| C1-Fluorene | C1_86-73-7 | ug/kg | 0.5 U | 0.5 U | | | 0.5 U | 0.5 UT | 0.5 U | 0.5 UT | 1.3 J | 0.52 J | 210 | 0.5 U | 0.5 U | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 0.61 U | 0.61 U | | | 0.61 U | 0.61 UT | 0.61 U | 0.61 UT | 3.5 | 0.84 J | 730 J | 0.61 U | 0.61 U | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 0.75 U | 0.75 U | | | 0.75 U | 0.75 UT | 0.75 U | 0.75 UT | 3.9 | 1.3 J | 1200 J | 1 U | 0.75 U | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 0.21 U | 0.21 U | | | 0.21 U | 0.21 UT | 0.21 U | 0.21 UT | 0.21 U | 0.21 U | 170 | 0.21 U | 0.21 U | |
| C2-Chrysene | C2_218-01-9 | ug/kg | 0.25 U | 0.25 U | | | 0.25 U | 0.25 UT | 0.25 U | 0.25 UT | 0.25 U | 0.25 U | 150 | 0.25 U | 0.25 U | |
| C2-Fluorene | C2_86-73-7 | ug/kg | 0.5 U | 0.5 U | | | 0.5 U | 0.5 UT | 0.5 U | 0.5 UT | 0.88 J | 0.5 U | 190 | 0.55 U | 0.5 U | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 0.37 U | 0.37 U | | | 0.37 U | 0.37 UT | 0.37 U | 0.37 UT | 1.2 J | 0.71 J | 580 | 0.47 J | 0.37 U | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 0.75 U | 0.75 U | | | 0.75 U | 0.75 UT | 0.75 U | 0.75 UT | 2.1 | 1 J | 550 | 0.75 U | 0.75 U | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 0.21 U | 0.21 U | | | 0.21 U | 0.21 UT | 0.21 U | 0.21 UT | 0.21 U | 0.21 U | 100 | 0.21 U | 0.21 U | |
| C3-Chrysene | C3_218-01-9 | ug/kg | 0.25 U | 0.25 U | | | 0.25 U | 0.25 UT | 0.25 U | 0.25 UT | 0.25 U | 0.25 U | 71 | 0.25 U | 0.25 U | |
| C3-Fluorene | C3_86-73-7 | ug/kg | 0.5 U | 0.5 U | | | 0.5 U | 0.5 UT | 0.5 U | 0.5 UT | 0.5 U | 0.5 U | 180 | 0.5 U | 0.5 U | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 0.37 U | 0.37 U | | | 0.37 U | 0.37 UT | 0.37 U | 0.37 UT | 0.97 J | 0.55 J | 360 | 0.37 U | 0.37 U | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 0.75 U | 0.75 U | | | 0.75 U | 0.75 UT | 0.75 U | 0.75 UT | 1.7 J | 0.85 J | 270 | 0.75 U | 0.75 U | |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 0.25 U | | | 0.25 U | 0.25 UT | 0.25 U | 0.25 UT | 0.25 U | 0.25 U | 35 | 0.25 U | 0.25 U | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 0.37 U | 0.37 U | | | 0.37 U | 0.37 UT | 0.37 U | 0.37 UT | 0.37 U | 0.37 U | 190 | 0.37 U | 0.37 U | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 0.75 U | 0.75 U | | | 0.75 U | 0.75 UT | 0.75 U | 0.75 UT | 0.75 U | 0.75 U | 120 | 0.75 U | 0.75 U | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 0.61 U | 0.61 U | | | 0.61 U | 0.61 UT | 0.61 U | 0.61 UT | 1.7 J | 0.61 U | 240 | 0.61 U | 0.61 U | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 0.61 U | 0.61 U | | | 0.61 U | 0.61 UT | 0.61 U | 0.61 UT | 0.61 U | 0.61 U | 110 | 0.61 U | 0.61 U | |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | 9.95 U | 9.63 UT | 9.83 U | 9.82 UT | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | 9.95 U | 9.63 UT | 9.83 U | 9.82 UT | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | 9.95 U | 9.63 UT | 9.83 U | 9.82 UT | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | 9.95 U | 9.63 UT | 9.83 U | 9.82 UT | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | 9.95 U | 9.63 UT | 9.83 U | 9.82 UT | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | 9.95 U | 9.63 UT | 9.83 U | 9.82 UT | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | 9.95 U | 9.63 UT | 9.83 U | 9.82 UT | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C636-C | LW3-C636-D | LW3-C640-B | LW3-C640-C | LW3-C644-B1 | LW3-C644-B2 | LW3-C644-C1 | LW3-C644-C2 | LW3-C645-B | LW3-C645-C | LW3-C648-B | LW3-C648-C | LW3-C648-D | LW3-C651-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 151 - 273 | 273 - 332 | 30 - 95 | 95 - 132 | 30 - 151 | 30 - 151 | 151 - 275 | 151 - 273 | 30 - 120 | 120 - 175 | 30 - 151 | 151 - 253 | 253 - 338 | 30 - 128 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | 9.95 U | 9.63 UT | 9.83 U | 9.82 UT | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | 1.08 U | 1.39 JT | 1.54 U | 1.21 JT | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | 0.457 U | 0.466 UT | 0.719 U | 0.406 UT | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C636-C | LW3-C636-D | LW3-C640-B | LW3-C640-C | LW3-C644-B1 | LW3-C644-B2 | LW3-C644-C1 | LW3-C644-C2 | LW3-C645-B | LW3-C645-C | LW3-C648-B | LW3-C648-C | LW3-C648-D | LW3-C651-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 151 - 273 | 273 - 332 | 30 - 95 | 95 - 132 | 30 - 151 | 30 - 151 | 151 - 275 | 151 - 273 | 30 - 120 | 120 - 175 | 30 - 151 | 151 - 253 | 253 - 338 | 30 - 128 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | 1.01 U | 1.24 JT | 1.27 U | 1.23 JT | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | 2.32 J | 2.47 JT | 2.63 U | 2.04 JT | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | 1.21 U | 1.24 UT | 1.31 U | 0.953 UT | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | 0.782 U | 1.01 UT | 1.16 U | 1.01 UT | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | 1.3 U | 1.19 UT | 1.5 U | 1.03 UT | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | 0.588 U | 0.739 UT | 0.978 U | 0.689 UT | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | 0.61 U | 0.728 UT | 1.06 U | 0.723 UT | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | 0.585 U | 0.785 UT | 1.05 U | 0.702 UT | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | 0.637 U | 0.829 UT | 1.21 U | 0.79 UT | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C636-C | LW3-C636-D | LW3-C640-B | LW3-C640-C | LW3-C644-B1 | LW3-C644-B2 | LW3-C644-C1 | LW3-C644-C2 | LW3-C645-B | LW3-C645-C | LW3-C648-B | LW3-C648-C | LW3-C648-D | LW3-C651-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 151 - 273 | 273 - 332 | 30 - 95 | 95 - 132 | 30 - 151 | 30 - 151 | 151 - 275 | 151 - 273 | 30 - 120 | 120 - 175 | 30 - 151 | 151 - 253 | 253 - 338 | 30 - 128 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | 0.392 U | 0.396 UT | 0.574 U | 0.267 UT | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | 4.97 U | 4.82 UT | 4.92 U | 4.91 UT | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | 2.32 JT | 5.1 JT | 9.83 UT | 4.48 JT | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | 7E-05 JT | 0.00025 JT | 0.15 UT | 0.00022 JT | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | 4.97 UT | 4.82 UT | 4.92 UT | 4.91 UT | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | 9.95 UT | 9.63 UT | 9.83 UT | 9.82 UT | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | 4.97 UT | 4.82 UT | 4.92 UT | 4.91 UT | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | 4.97 UT | 1.39 JT | 4.92 UT | 1.21 JT | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | 2.32 JT | 3.71 JT | 4.92 UT | 3.27 JT | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | 4.97 UT | 4.82 UT | 4.92 UT | 4.91 UT | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | 4.97 UT | 4.82 UT | 4.92 UT | 4.91 UT | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | 4.97 UT | 4.82 UT | 4.92 UT | 4.91 UT | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | 4.97 UT | 4.82 UT | 4.92 UT | 4.91 UT | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.16 U | 0.16 U | 4 J | 1.2 | 0.16 U | 0.16 UT | 0.16 U | 0.16 UT | 0.16 U | 0.16 U | 0.38 | 0.16 U | 0.16 U | 17 J |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.046 U | 0.058 J | 0.68 J | 0.13 U | 0.046 U | 0.046 UT | 0.046 U | 0.046 UT | 0.22 NJ | 0.23 NJ | 0.14 U | 0.046 U | 0.046 U | 1.2 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.061 U | 0.061 U | 0.97 U | 0.26 U | 0.061 U | 0.061 UT | 0.061 U | 0.061 UT | 0.061 U | 0.061 U | 0.073 U | 0.061 U | 0.061 U | 17 |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.073 U | 0.073 U | 11 | 2.7 | 0.073 U | 0.073 UT | 0.073 U | 0.073 UT | 0.15 U | 0.14 U | 1.2 J | 0.073 U | 0.073 U | 29 |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.027 U | 0.027 U | 4.9 NJ | 0.19 U | 0.027 U | 0.027 UT | 0.027 U | 0.027 UT | 0.082 U | 0.14 U | 0.4 | 0.027 U | 0.027 U | 7.1 U |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.18 U | 0.18 U | 2.1 J | 0.18 U | 0.18 U | 0.18 UT | 0.18 U | 0.18 UT | 0.18 U | 0.2 U | 0.18 U | 0.18 U | 0.18 U | 92 J |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 UT | 0.12 U | 0.12 UT | 0.12 U | 0.12 U | 0.16 U | 0.12 U | 0.12 U | 1.1 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.037 U | 0.037 U | 0.19 | 0.037 U | 0.037 U | 0.037 UT | 0.037 U | 0.037 UT | 0.037 U | 0.037 U | 0.087 J | 0.037 U | 0.037 U | 0.21 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 UT | 0.097 U | 0.097 UT | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.54 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.031 U | 0.031 U | 0.21 U | 0.031 U | 0.031 UT | 0.031 U | 0.031 UT | 0.031 U | 0.031 U | 0.14 U | 0.031 U | 0.047 J | 1.3 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.27 U | 0.14 UT | 0.55 U | 0.14 UT | 0.66 U | 0.56 U | 0.14 U | 0.14 U | 0.14 U | 1.8 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.031 U | 0.18 U | 0.14 U | 0.031 U | 0.031 UT | 0.031 U | 0.031 UT | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.17 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.087 U | 0.087 U | 0.65 U | 0.12 U | 0.087 U | 0.087 UT | 0.087 U | 0.087 UT | 0.087 U | 0.087 U | 0.12 J | 0.087 U | 0.087 U | 12 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 UT | 0.11 U | 0.11 UT | 0.15 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.7 U |
| Dieldrin | 60-57-1 | ug/kg | 0.03 U | 0.03 U | 0.41 U | 0.054 U | 0.03 U | 0.03 UT | 0.03 U | 0.03 UT | 0.061 U | 0.095 NJ | 0.14 U | 0.03 U | 0.08 J | 1.1 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.058 U | 0.18 U | 0.058 U | 0.06 U | 0.058 UT | 0.084 U | 0.058 UT | 0.14 J | 0.13 J | 0.058 U | 0.058 U | 0.058 U | 1.1 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 UT | 0.071 U | 0.071 UT | 0.071 U | 0.071 U | 0.074 U | 0.071 U | 0.071 U | 1.9 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 0.042 U | 0.18 U | 0.042 U | 0.042 U | 0.042 UT | 0.042 U | 0.042 UT | 0.15 U | 0.17 NJ | 0.14 U | 0.042 U | 0.042 U | 2.3 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.029 U | 0.029 U | 0.64 NJ | 0.11 U | 0.029 U | 0.029 UT | 0.068 U | 0.029 UT | 0.029 U | 0.029 U | 0.092 U | 0.029 U | 0.029 U | 7.9 NJ |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 0.062 U | 0.41 U | 0.26 J | 0.17 U | 0.062 UT | 0.47 U | 0.062 UT | 0.062 U | 0.82 U | 0.23 | 0.062 U | 0.062 U | 4.4 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 UT | 0.076 U | 0.076 UT | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.42 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 UT | 0.068 U | 0.068 UT | 0.12 U | 0.09 U | 0.14 U | 0.068 U | 0.068 U | 1.3 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.14 | 0.075 U | 0.18 U | 0.075 U | 0.17 | 0.075 UT | 0.22 J | 0.075 UT | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 2.2 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 UJ | 0.12 UJ | 0.12 U | 0.12 UJT | 0.12 U | 0.12 JT | 0.12 U | 0.12 U | 0.12 UJ | 0.12 UJ | 0.12 UJ | 0.66 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 U | 0.061 U | 0.061 U | 0.23 U | 0.061 U | 0.061 UT | 0.061 U | 0.076 UT | 0.23 NJ | 0.089 U | 0.3 U | 0.21 U | 0.11 U | 0.66 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.087 UT | 0.087 UT | 0.65 UT | 0.23 UT | 0.087 UT | 0.087 UT | 0.087 UT | 0.087 UT | 0.23 JT | 0.089 UT | 0.12 JT | 0.21 UT | 0.11 UT | 12 UT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C636-C | LW3-C636-D | LW3-C640-B | LW3-C640-C | LW3-C644-B1 | LW3-C644-B2 | LW3-C644-C1 | LW3-C644-C2 | LW3-C645-B | LW3-C645-C | LW3-C648-B | LW3-C648-C | LW3-C648-D | LW3-C651-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 151 - 273 | 273 - 332 | 30 - 95 | 95 - 132 | 30 - 151 | 30 - 151 | 151 - 275 | 151 - 273 | 30 - 120 | 120 - 175 | 30 - 151 | 151 - 253 | 253 - 338 | 30 - 128 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.058 UT | 0.058 UT | 0.19 T | 0.21 UT | 0.06 UT | 0.058 UT | 0.084 UT | 0.058 UT | 0.14 JT | 0.13 JT | 0.087 JT | 0.058 UT | 0.047 JT | 1.3 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.16 UT | 0.16 UT | 15 JT | 3.9 T | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 1.6 JT | 0.16 UT | 0.16 UT | 46 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 0.18 UT | 0.058 JT | 23 JT | 3.9 T | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.22 JT | 0.23 JT | 2 JT | 0.18 UT | 0.18 UT | 160 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.046 UT | 0.058 JT | 5.6 JT | 0.19 UT | 0.046 UT | 0.046 UT | 0.046 UT | 0.046 UT | 0.22 JT | 0.23 JT | 0.4 T | 0.046 UT | 0.046 UT | 7.1 UT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.18 UT | 0.18 UT | 2.1 JT | 0.26 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.2 UT | 0.18 UT | 0.18 UT | 0.18 UT | 110 JT |
| Toxaphene | 8001-35-2 | ug/kg | 3.4 U | 3.4 U | 16 U | 8.4 U | 3.4 U | 3.4 UT | 3.4 U | 3.4 UT | 3.4 U | 3.6 U | 4.7 U | 3.4 U | 3.4 U | 360 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.027 U | 0.027 U | 0.18 U | 0.14 U | 0.027 U | 0.027 UT | 0.027 U | 0.027 UT | 0.027 U | 0.027 U | 0.14 U | 0.027 U | 0.027 U | 4.8 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.034 U | 0.034 U | 0.18 U | 0.034 U | 0.034 U | 0.034 UT | 0.034 U | 0.034 UT | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.19 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 1.5 U | 3 J | 200 J | 21 J | 1.5 U | 1.6 UT | 1.5 U | 1.8 JT | 1.8 J | 1.7 U | 64 J | 1.8 J | 2.4 J | 3700 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 1.5 U | 1.8 J | 150 J | 13 J | 1.5 U | 1.6 UT | 1.5 U | 1.6 UT | 1.7 U | 1.7 U | 30 J | 1.7 U | 1.8 U | 3300 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 3.6 U | 13 J | 550 J | 37 U | 3.7 U | 3.8 UT | 3.5 U | 7.9 JT | 7.6 J | 6.9 J | 62 J | 6.4 U | 19 U | 3200 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 3.6 U | 3.6 J | 350 J | 19 U | 3.7 U | 3.8 UT | 3.5 U | 4.4 JT | 4.1 U | 4.2 J | 26 U | 4.9 U | 8.1 U | 2100 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 3.6 UA | 16 JA | 750 JA | 21 JA | 3.7 UA | 3.8 UA | 3.5 UA | 9.7 JA | 9.4 JA | 6.9 JA | 126 JA | 1.8 JA | 2.4 JA | 6900 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 3.6 UA | 5.4 JA | 500 JA | 13 JA | 3.7 UA | 3.8 UA | 3.5 UA | 4.4 JA | 4.1 UA | 4.2 JA | 30 JA | 4.9 UA | 8.1 UA | 5400 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.26 U | 0.27 U | 0.38 U | 0.29 U | 0.26 U | 0.27 UT | 0.25 U | 0.26 UT | 0.29 U | 0.29 U | 0.3 U | 0.28 U | 0.3 U | 0.45 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.21 U | 0.22 U | 0.31 U | 0.23 U | 0.21 U | 0.22 UT | 0.21 U | 0.21 UT | 0.24 U | 0.24 U | 0.24 U | 0.23 U | 0.25 U | 2.1 J |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 1.1 U | 6.4 U | 0.98 U | 0.75 U | 1.4 U | 0.7 UT | 1.6 U | 0.68 UT | 6.9 U | 6.9 U | 0.77 U | 0.72 U | 0.79 U | 4.4 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.14 U | 0.21 U | 0.2 U | 0.15 U | 0.14 U | 0.14 UT | 0.13 U | 0.14 UT | 0.16 U | 0.16 U | 0.16 U | 0.15 U | 0.16 U | 0.24 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 1 U | 5 U | 1 U | 1 U | 1 UT | 1 U | 1 UT | 1 U | 1 U | 5 U | 1 U | 1 U | 11 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | 5.5 U | R | R | R | R | R | R | 5.5 U | 5.5 U | R | R | R | 60 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 17 U | 85 U | 17 U | 17 U | 17 UT | 17 U | 17 UT | 17 U | 17 U | 85 U | 17 U | 17 U | 190 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 2 U | 10 U | 2 U | 2 U | 2 UT | 2 U | 2 UT | 2 U | 2 U | 10 U | 2 U | 2 U | 22 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 17 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 17 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 1.4 U | 7 U | 1.4 U | 1.4 U | 1.4 UT | 1.4 U | 1.4 UT | 1.4 U | 1.4 U | 7 U | 1.4 U | 1.4 U | 16 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 1.4 U | 7 U | 1.4 U | 1.4 U | 1.4 UT | 1.4 U | 1.4 UT | 1.4 U | 1.4 U | 7 U | 1.4 U | 1.4 U | 16 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 1.5 U | 1.5 U | 15 J | 1.5 U | 1.5 U | 1.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 260 |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 18 U | 90 U | 18 U | 18 U | 18 UT | 18 U | 18 UT | 18 U | 18 U | 90 U | 18 U | 18 U | 200 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.2 U | 1.4 U | 0.29 U | 0.22 U | 0.2 U | 0.21 UT | 0.19 U | 0.2 UT | 0.22 U | 0.23 U | 0.23 U | 0.21 U | 0.23 U | 16 J |
| Phenol | 108-95-2 | ug/kg | 2 U | 2 U | 10 U | 2 U | 2.2 J | 2.5 JT | 2.9 J | 2 UT | 2 U | 2 U | 10 U | 2 U | 2 U | 22 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 7 U | 7 U | 110 J | 7 U | 7 U | 7 UT | 7 U | 7 UT | 7 U | 7 U | 35 U | 7 U | 7 U | 210 U |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 3.2 U | 16 U | 3.2 U | 3.2 U | 3.2 UT | 3.4 J | 3.2 UT | 3.2 U | 3.2 U | 16 U | 3.2 U | 3.2 U | 35 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 7.9 U | 7.9 U | 40 U | 7.9 U | 7.9 U | 9.4 JT | 7.9 U | 17 JT | 7.9 U | 7.9 U | 40 U | 7.9 U | 7.9 U | 86 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 1.3 U | 1.3 U | 6.5 U | 1.3 U | 1.3 U | 1.3 UT | 2 J | 1.4 JT | 1.3 U | 1.3 U | 6.5 U | 1.3 U | 1.4 J | 15 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 1 U | 5 U | 1 U | 1 U | 1 UT | 1 J | 1 UT | 1 U | 1 U | 5 U | 1 U | 1 U | 11 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 1.7 U | 8.5 U | 1.7 U | 1.7 U | 1.7 UT | 8.1 | 1.7 UT | 1.7 U | 1.7 U | 8.5 U | 1.7 U | 1.7 U | 19 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 2.6 U | 13 U | 2.6 U | 2.6 U | 2.6 UT | 2.6 U | 2.6 UT | 2.6 U | 2.6 U | 13 U | 2.6 U | 2.6 U | 29 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 2.9 U | 15 U | 2.9 U | 2.9 U | 2.9 UT | 2.9 U | 2.9 UT | 2.9 U | 2.9 U | 15 U | 2.9 U | 2.9 U | 32 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 3 U | 15 U | 3 U | 3 U | 3 UT | 3 U | 3 UT | 3 U | 3 U | 15 U | 3 U | 3 U | 33 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 2.9 U | 15 U | 2.9 U | 2.9 U | 2.9 UT | 2.9 U | 2.9 UT | 2.9 U | 2.9 U | 15 U | 2.9 U | 2.9 U | 32 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 17 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 2 U | 10 U | 2 U | 2 U | 2 UT | 2 U | 2 UT | 2 U | 2 U | 10 U | 2 U | 2 U | 22 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 1.6 U | 8 U | 1.6 U | 1.6 U | 1.6 UT | 1.6 U | 1.6 UT | 1.6 U | 1.6 U | 8 U | 1.6 U | 1.6 U | 18 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 3.2 U | 16 U | 3.2 U | 3.2 U | 3.2 UT | 3.2 U | 3.2 UT | 3.2 U | 3.2 U | 16 U | 3.2 U | 3.2 U | 35 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 3.7 U | 19 U | 3.7 U | 3.7 U | 3.7 UT | 3.7 U | 3.7 UT | 3.7 U | 3.7 U | 19 U | 3.7 U | 3.7 U | 41 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 2.5 U | 13 U | 2.5 U | 2.5 U | 2.5 UT | 2.5 U | 2.5 UT | 2.5 U | 2.5 U | 13 U | 2.5 U | 2.5 U | 28 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 1.6 U | 8 U | 1.6 U | 1.6 U | 1.6 UT | 1.6 U | 1.6 UT | 1.6 U | 1.6 U | 8 U | 1.6 U | 1.6 U | 18 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 1.9 U | 9.5 U | 1.9 U | 1.9 U | 1.9 UT | 1.9 U | 1.9 UT | 1.9 U | 1.9 U | 9.5 U | 1.9 U | 1.9 U | 21 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 1.4 U | 7 U | 1.4 U | 1.4 U | 1.4 UT | 1.4 U | 1.4 UT | 1.4 U | 1.4 U | 7 U | 1.4 U | 1.4 U | 16 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 1.8 U | 9 U | 1.8 U | 1.8 U | 1.8 UT | 1.8 U | 1.8 UT | 1.8 U | 1.8 U | 9 U | 1.8 U | 1.8 U | 20 U |
| Aniline | 62-53-3 | ug/kg | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 UJ | 7.5 U | 1.5 U | 1.5 U | 17 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 1.1 U | 5.5 U | 1.1 U | 1.1 U | 1.1 UT | 1.1 U | 1.1 UT | 1.1 U | 1.1 UJ | 5.5 U | 1.1 U | 1.1 U | 12 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 UJ | R | 480 U | 96 U | 96 UJ | 96 UJT | 96 UJ | 96 UT | R | R | 480 U | 96 U | 96 U | R |
| Benzyl alcohol | 100-51-6 | ug/kg | 2.3 J | 2.1 U | 11 U | 2.4 J | 2.3 J | 2.4 JT | 2.2 J | 2.1 UT | 2.1 U | 2.1 U | 11 U | 2.1 U | 2.3 J | 23 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 U | 7.5 U | 1.5 U | 1.5 U | 17 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 1.9 U | 9.5 U | 1.9 U | 1.9 U | 1.9 UT | 1.9 U | 1.9 UT | 1.9 U | 1.9 U | 9.5 U | 1.9 U | 1.9 U | 21 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 2.6 U | 13 U | 2.6 U | 2.6 U | 2.6 UT | 2.6 U | 2.6 UT | 2.6 UJ | 2.6 UJ | 13 U | 2.6 U | 2.6 U | 29 U |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 1.3 U | 27 J | 2.9 J | 1.3 U | 1.3 UT | 3.5 J | 1.3 UT | 1.3 U | 1.3 U | 21 J | 1.3 U | 1.3 U | 60 J |
| Dibenzofuran | 132-64-9 | ug/kg | 0.59 U | 0.59 U | 26 | 3 | 0.59 U | 0.59 UT | 0.59 U | 0.59 UT | 0.59 U | 0.59 U | 65 | 0.59 U | 0.59 U | 430 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 U | 0.068 U | 0.18 UJ | 0.068 UJ | 0.068 U | 0.068 UJT | 0.068 U | 0.068 JT | 0.068 U | 0.068 U | 0.068 UJ | 0.068 UJ | 0.068 UJ | 0.38 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C636-C | LW3-C636-D | LW3-C640-B | LW3-C640-C | LW3-C644-B1 | LW3-C644-B2 | LW3-C644-C1 | LW3-C644-C2 | LW3-C645-B | LW3-C645-C | LW3-C648-B | LW3-C648-C | LW3-C648-D | LW3-C651-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 151 - 273 | 273 - 332 | 30 - 95 | 95 - 132 | 30 - 151 | 30 - 151 | 151 - 275 | 151 - 273 | 30 - 120 | 120 - 175 | 30 - 151 | 151 - 253 | 253 - 338 | 30 - 128 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 UT | 0.14 U | 0.14 UT | 0.54 U | 0.4 U | 0.14 U | 0.14 U | 0.14 U | 0.77 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 UJ | 29 U | 150 U | 29 U | 29 UJ | 29 UJT | 29 UJ | 29 UT | 29 U | 29 U | 150 U | 29 U | 29 U | 320 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.45 U | 0.16 UT | 0.7 J | 0.16 UT | 0.51 U | 0.22 U | 0.16 U | 0.16 U | 0.16 U | 0.88 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 1 U | 5 U | 1 U | 1 U | 1 UT | 1 U | 1 UT | 1 U | 1 U | 5 U | 1 U | 1 U | 11 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 2.2 U | 11 U | 2.2 U | 2.2 U | 2.2 UT | 2.2 U | 2.2 UT | 2.2 U | 2.2 U | 11 U | 2.2 U | 2.2 U | 24 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 6.1 U | 31 U | 6.1 U | 6.1 U | 6.1 UT | 6.1 U | 6.1 UT | 6.1 U | 6.1 UJ | 31 U | 6.1 U | 6.1 U | 67 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 1.6 U | 8 U | 1.6 U | 1.6 U | 1.6 UT | 1.7 J | 1.6 UT | 1.6 U | 1.6 U | 8 U | 1.6 U | 1.6 U | 18 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 2.4 U | 12 U | 2.4 U | 2.4 U | 2.4 UT | 2.4 U | 2.4 UT | 2.4 U | 2.4 U | 12 U | 2.4 U | 2.4 U | 27 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C651-C | LW3-C652-B | LW3-C652-C | LW3-C652-D | LW3-C658-B | LW3-C658-C | LW3-C658-D | LW3-C662-B | LW3-C662-C | LW3-C662-D | LW3-C662-E | LW3-C664-B | LW3-C664-C | LW3-C665-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 128 - 173 | 30 - 83 | 83 - 210 | 210 - 283 | 30 - 151 | 151 - 273 | 273 - 371 | 30 - 82 | 82 - 181 | 181 - 256 | 256 - 327 | 30 - 115 | 115 - 200 | 30 - 152 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U | 7.1 U | 6.3 U | 2.5 UJ | 3.7 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 0.73 U | 3.3 U | 1.9 U | 1.3 U | 1.3 U | 1.3 U | 1 U | 7.1 U | 6.3 U | 6.3 UJ | 8.2 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 0.73 U | 2.5 U | 2.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U | 7.1 U | 6.3 U | 10 UJ | 16 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 0.73 U | 2.5 U | 1.6 U | 2.1 U | 1.3 U | 1.3 U | 1 U | 23 J | 25 J | 4.3 UJ | 8.1 U | 32 J | 3.6 J | 4.1 J |
| Aroclor 1248 | 12672-29-6 | ug/kg | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U | 7.1 U | 6.3 U | 1.9 UJ | 2.6 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 0.73 U | 3.7 U | 1.9 U | 6.9 | 1.3 U | 1.3 U | 1 U | 37 NJ | 30 U | 4 UJ | 5.2 U | 41 | 3.2 J | 17 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 0.73 U | 2.7 U | 1.3 U | 6.1 | 1.3 U | 1.3 U | 1 U | 33 | 52 J | 0.91 UJ | 2.8 U | 42 | 3.2 | 19 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U | 7.1 U | 6.3 U | 0.91 UJ | 2.2 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 2 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U | 7.1 U | 22 U | 0.91 UJ | 1.2 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclors | 12767-79-2 | ug/kg | 2 UT | 3.7 UT | 2.3 UT | 13 T | 1.3 UT | 1.3 UT | 1 UT | 93 JT | 77 JT | 10 UJT | 16 UT | 115 JT | 10 JT | 40.1 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.58 | 1.95 | 2.01 | 1.77 | 1.76 | 1.94 | | 1.4 | 1.61 | 2.02 | 1.68 | 1.91 | 2.16 | 2.02 T |
| Total organic carbon | TOC | percent | 0.99 | 0.13 | 0.15 | 0.4 | 0.06 | 0.02 J | 0.04 J | 3.87 | 23.1 | 1.18 | 2.45 | 1.79 | 0.65 | 0.75 JT |
| Total solids | TSO | percent | 65.1 | 77.2 | 77.1 | 75.6 | 77.2 | 76.2 | 80.6 | 51 | 57.9 | 80.1 | 61.3 T | 55.9 | 69.7 | 79.5 T |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | | | | | 3.61 A | 0.11 JA | 1.72 A |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.28 T | 1.61 | 0 | 2 | 0.11 | 0 | | 0 | 2.89 | 2.71 | 2.22 | 0 | 1.72 | 0 |
| Fine gravel | GS_FG | percent | 1.21 T | 1.2 | 0.26 | 1.16 | 0.16 | 0.15 | | 1.24 | 7.17 | 1.37 | 10 | 0.1 | 0.49 | 0.9 |
| Very coarse sand | GS_VCS | percent | 1.03 T | 2.07 | 0.76 | 1.47 | 0.81 | 0.58 | | 1.33 | 6.09 | 1.12 | 6.1 | 0.66 | 0.48 | 1.31 |
| Coarse sand | GS_CS | percent | 0.663 T | 26.2 | 16.1 | 16.4 | 41.7 | 31 | | 1.73 | 5.14 | 5.79 | 3.21 | 4.22 | 1 | 1.14 |
| Medium sand | GS_MS | percent | 1 T | 60.6 | 55.6 | 57.5 | 50.5 | 60.4 | | 3.82 | 6.37 | 53.8 | 3.27 | 22.3 | 14.6 | 0.86 |
| Fine sand | GS_FS | percent | 6.93 T | 5.11 | 11.4 | 8.05 | 6.76 | 6.91 | | 9.08 | 9.25 | 28.4 | 4.93 | 12.2 | 60.7 | 2.39 |
| Very fine sand | GS_VFS | percent | 21.1 T | 1.6 | 7.03 | 4.45 | 0.43 | 0.45 | | 12.1 | 12.1 | 3.85 | 10.2 | 6.3 | 10.2 | 14 |
| Fines | GS_FINES | percent | 67.7 T | 2.92 T | 6.41 T | 7 T | 0.29 T | 0.83 T | | 70.7 T | 51.4 T | 2.65 T | 58.4 T | 54 T | 10.4 T | 77.1 T |
| Coarse silt | GS_CSILT | percent | 17.8 T | 0.57 | 2.06 | 1.35 | 0.09 | 0.21 | | 10.6 | 12 | 0.78 | 18.6 | 10.1 | 2.55 | 18.3 |
| Medium silt | GS_MSILT | percent | 18.3 T | 0.53 | 1.24 | 1.26 | 0.06 | 0.08 | | 19.9 | 13.3 | 0.47 | 13.9 | 14.5 | 2.01 | 24.9 |
| Fine silt | GS_FSILT | percent | 12.8 T | 0.96 | 1.26 | 2.77 | 0 | 0.2 | | 14.4 | 9.14 | 0.52 | 9.81 | 11.7 | 1.54 | 12.2 |
| Very fine silt | GS_VFSILT | percent | 6 T | 0.47 | 0.51 | 0.05 | 0 | 0.03 | | 11.5 | 6.44 | 0.34 | 6.51 | 6.78 | 1.54 | 6.28 |
| 8-9 Phi clay | GS_CCLAY | percent | 3.91 T | 0 | 0.14 | 0.09 | 0.08 | 0.15 | | 5.71 | 3.87 | 0.21 | 3.8 | 4.55 | 0.81 | 4.77 |
| >9 Phi clay | GS_MFCLAY | percent | 8.92 T | 0.39 | 1.2 | 1.48 | 0.06 | 0.16 | | 8.54 | 6.66 | 0.33 | 5.81 | 6.36 | 1.91 | 10.6 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 25900 | 9860 | 11700 | 9670 | 9810 | 8690 | 7850 | 24500 | 22200 | 12500 | 18300 | 24900 | 20400 | 19000 T |
| Antimony | 7440-36-0 | mg/kg | 0.25 J | 0.13 J | 0.14 J | 0.16 J | 0.15 J | 0.13 J | 0.02 J | 0.22 J | 0.18 J | 0.08 J | 0.08 J | 0.45 J | 0.14 J | 0.21 JT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C651-C | LW3-C652-B | LW3-C652-C | LW3-C652-D | LW3-C658-B | LW3-C658-C | LW3-C658-D | LW3-C662-B | LW3-C662-C | LW3-C662-D | LW3-C662-E | LW3-C664-B | LW3-C664-C | LW3-C665-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 128 - 173 | 30 - 83 | 83 - 210 | 210 - 283 | 30 - 151 | 151 - 273 | 273 - 371 | 30 - 82 | 82 - 181 | 181 - 256 | 256 - 327 | 30 - 115 | 115 - 200 | 30 - 152 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 2.62 | 2.11 | 2.15 | 2 | 1.5 | 1.19 | 1.04 | 3.66 | 2.23 | 1.43 | 3.55 | 5 | 1.92 | 2.52 T |
| Cadmium | 7440-43-9 | mg/kg | 0.128 | 0.06 | 0.083 | 0.085 | 0.054 | 0.052 | 0.043 J | 0.343 | 0.307 | 0.047 | 0.26 | 0.524 | 0.09 | 0.192 T |
| Chromium | 7440-47-3 | mg/kg | 24 | 11.7 | 12.9 | 11.7 | 10.3 | 9.84 | 8.66 | 27.9 | 17.9 | 9.64 | 24.1 | 35 | 20.3 | 16.5 T |
| Copper | 7440-50-8 | mg/kg | 28.7 | 15.3 | 20.2 | 17.1 | 15.6 | 13.4 | 11.1 | 40.1 | 28.5 | 11.6 | 37.2 | 53.5 | 22.3 | 31.5 T |
| Lead | 7439-92-1 | mg/kg | 7.42 | 4.01 | 6.03 | 6.09 | 2.17 | 2.03 | 2.01 | 38.1 | 24.7 | 5.78 | 19.4 | 57.7 | 6.51 | 17.2 T |
| Mercury | 7439-97-6 | mg/kg | 0.117 | 0.02 | 0.018 | 0.024 | 0.024 | 0.006 J | 0.058 J | 0.193 | 0.166 | 0.017 | 0.345 | 0.138 | 0.037 | 0.055 JT |
| Nickel | 7440-02-0 | mg/kg | 22.8 J | 16.4 | 17.4 | 16.2 | 15.7 | 14.3 | 12.7 | 24.3 J | 19.5 J | 14.8 J | 21.7 J | 29.5 | 23.2 | 18 T |
| Silver | 7440-22-4 | mg/kg | 0.14 | 0.04 | 0.06 | 0.08 | 0.04 | 0.04 | 0.06 | 0.39 | 0.45 | 0.07 | 0.26 | 0.672 | 0.143 | 0.255 T |
| Zinc | 7440-66-6 | mg/kg | 83.6 | 47.1 | 58.8 | 52.4 | 41.1 | 37.3 | 42.2 | 166 | 114 | 56.5 | 81.2 | 253 | 73.8 | 106 T |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 3.2 | 5.9 | 4.3 | 25 | 0.31 U | 0.31 U | 0.31 U | 89000 | 1300000 | 52000 | 17000 | 220 | 15 | 51 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 5.4 | 8.4 | 7.7 | 19 | 0.39 U | 0.39 U | 0.39 U | 140000 | 2200000 | 87000 | 27000 | 68 | 28 | 66 |
| Acenaphthene | 83-32-9 | ug/kg | 4.4 | 40 | 36 | 350 | 0.23 U | 0.23 U | 0.23 U | 140000 | 2200000 | 37000 | 13000 | 540 | 59 | 310 |
| Acenaphthylene | 208-96-8 | ug/kg | 6.4 | 27 | 25 | 31 | 0.24 U | 0.24 U | 0.24 U | 12000 | 88000 | 92000 J | 26000 | 15 | 1 J | 9.8 |
| Anthracene | 120-12-7 | ug/kg | 6.8 | 60 | 60 | 120 | 0.47 U | 0.48 J | 0.47 U | 100000 | 830000 | 73000 | 26000 | 100 | 87 | 60 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 16 | 290 | 310 | 320 | 0.48 U | 0.48 U | 0.48 U | 71000 | 490000 | 54000 | 19000 | 210 | 16 | 120 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 26 | 380 | 400 | 380 | 0.14 U | 0.25 J | 0.14 U | 70000 | 570000 | 64000 | 26000 | 180 | 7.3 | 83 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 26 | 350 | 360 | 340 | 0.25 U | 0.42 J | 0.25 U | 63000 | 520000 | 59000 | 25000 | 240 | 10 | 150 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | | 230 | 240 | 230 | 0.18 U | 0.18 U | 0.18 U | 43000 | 340000 | 39000 J | 17000 | 130 | 6.1 | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 28 | 280 | 300 | 270 | 0.71 J | 0.64 U | 0.64 U | 44000 | 380000 | 51000 | 24000 | 140 | 5.1 | 53 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 7.6 | 110 | 120 | 100 | 0.15 U | 0.22 J | 0.15 U | 19000 | 150000 | 18000 | 7400 | 74 | 3.5 | 50 |
| Chrysene | 218-01-9 | ug/kg | 22 | 330 | 350 | 370 | 0.25 U | 0.42 U | 0.25 U | 80000 | 530000 | 62000 | 25000 | 230 | 20 | 170 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 2.7 | 36 | 37 | 35 | 0.28 U | 0.28 U | 0.28 U | 6000 | 44000 | 5700 | 2500 | 19 | 0.76 J | 11 |
| Dibenzothiophene | 132-65-0 | ug/kg | 4.8 | 37 | 30 | 160 | 0.21 U | 0.21 U | 0.21 U | 66000 | 570000 | 48000 J | 15000 | 55 | 11 | 27 |
| Fluoranthene | 206-44-0 | ug/kg | 51 | 780 | 500 | 1500 | 0.61 U | 0.83 U | 0.61 U | 230000 | 1900000 | 230000 | 79000 | 810 | 84 | 380 |
| Fluorene | 86-73-7 | ug/kg | 3.9 | 20 | 19 | 160 | 0.5 U | 0.5 U | 0.5 U | 78000 | 860000 | 62000 | 18000 | 250 | 79 | 200 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 26 | 270 | 310 | 280 | 0.51 U | 0.47 U | 0.16 U | 47000 | 410000 | 48000 | 21000 | 140 | 5 | 57 |
| Naphthalene | 91-20-3 | ug/kg | 34 | 39 | 26 | 57 | 0.44 U | 0.7 U | 0.37 U | 110000 | 1.2E+07 | 560000 | 150000 | 19 | 3.7 | 90 |
| Perylene | 198-55-0 | ug/kg | | 99 | 100 | 100 | 0.32 U | 0.32 U | 0.32 U | 16000 | 140000 | 16000 J | 7100 | 95 | 19 | |
| Phenanthrene | 85-01-8 | ug/kg | 38 | 120 | 180 | 1400 | 0.75 U | 1.1 U | 0.75 U | 4900000 | 4300000 | 390000 | 120000 | 870 | 250 | 370 |
| Pyrene | 129-00-0 | ug/kg | 67 | 1100 | 860 | 1700 | 0.37 U | 0.8 U | 0.37 U | 2800000 | 2000000 | 230000 | 83000 | 660 | 69 | 300 |
| High Molecular Weight PAH | HPAH | ug/kg | 270 T | 3900 T | 3500 T | 5300 T | 0.71 JT | 0.89 JT | 0.64 UT | 3400000 T | 7000000 T | 820000 T | 310000 T | 2700 T | 220 JT | 1400 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 99 T | 310 T | 350 T | 2100 T | 0.75 UT | 0.48 JT | 0.75 UT | 5500000 T | 2.2E+07 T | 1300000 JT | 380000 T | 1900 T | 510 JT | 1100 T |
| Total PAHs | 130498-29-2 | ug/kg | 370 T | 4200 T | 3900 T | 7400 T | 0.71 JT | 1.4 JT | 0.75 UT | 8900000 T | 2.9E+07 T | 2100000 JT | 690000 T | 4600 T | 730 JT | 2500 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | | 28 | 27 | 57 | 0.21 U | 0.21 U | 0.21 U | 13000 | 68000 | 2100 | 810 J | 52 | 3.7 | |
| C1-Chrysene | C1_218-01-9 | ug/kg | | 180 | 210 | 200 | 0.25 U | 0.25 U | 0.25 U | 58000 | 210000 | 19000 | 7100 | 150 | 8.7 | |
| C1-Fluorene | C1_86-73-7 | ug/kg | | 33 | 38 | 130 | 0.5 U | 0.5 U | 0.5 U | 37000 | 150000 | 10000 | 3300 | 41 | 8.1 | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | | 340 | 340 | 480 | 0.61 U | 0.61 U | 0.61 U | 120000 | 510000 | 50000 | 18000 | 280 | 27 | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | | 190 | 260 | 760 J | 0.75 U | 0.81 U | 0.75 U | 260000 J | 880000 | 65000 | 20000 | 280 | 39 | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | | 78 | 79 | 130 | 0.21 U | 0.21 U | 0.21 U | 55000 | 140000 | 8300 | 2900 | 72 | 5.1 | |
| C2-Chrysene | C2_218-01-9 | ug/kg | | 87 | 110 | 100 | 0.25 U | 0.25 U | 0.25 U | 33000 | 97000 | 6600 | 2700 | 83 | 4.3 | |
| C2-Fluorene | C2_86-73-7 | ug/kg | | 78 | 82 | 170 | 0.5 U | 0.5 U | 0.5 U | 55000 | 180000 | 9200 | 3200 | 87 | 7.4 | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | | 19 | 23 | 220 | 0.37 U | 0.5 J | 0.37 U | 170000 | 1300000 | 51000 | 17000 | 130 | 22 | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | | 220 | 230 | 400 | 0.75 U | 0.75 U | 0.75 U | 140000 | 370000 | 22000 | 7200 | 210 | 19 | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | | 68 | 69 | 110 | 0.21 U | 0.21 U | 0.21 U | 26 U | 87000 | 4100 | 1500 | 81 | 3.9 | |
| C3-Chrysene | C3_218-01-9 | ug/kg | | 42 | 60 | 56 | 0.25 U | 0.25 U | 0.25 U | 18000 | 46000 | 2800 | 1500 | 58 | 3.5 | |
| C3-Fluorene | C3_86-73-7 | ug/kg | | 110 | 110 | 170 | 0.5 U | 0.5 U | 0.5 U | 67000 | 170000 | 7600 | 2700 | 120 | 5.8 | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | | 57 | 61 | 310 | 0.37 U | 0.37 U | 0.37 U | 120000 | 570000 | 22000 | 7700 | 150 | 9.7 | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | | 190 | 200 | 230 | 0.75 U | 0.75 U | 0.75 U | 90000 | 230000 | 11000 | 3900 | 210 | 11 | |
| C4-Chrysene | C4_218-01-9 | ug/kg | | 14 | 27 | 28 | 0.25 U | 0.25 U | 0.25 U | 6900 | 270 U | 130 U | 130 U | 31 | 0.25 U | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | | 66 | 67 | 210 | 0.37 U | 0.37 U | 0.37 U | 61000 | 290000 | 9400 | 3100 | 160 | 9.7 | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | | 100 | 99 | 80 | 0.75 U | 0.75 U | 0.75 U | 32000 | 95000 | 3700 | 1200 | 85 | 4 | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | | 150 | 170 | 170 | 0.61 U | 0.61 U | 0.61 U | 65000 | 210000 | 16000 | 6600 | 150 | 13 | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | | 82 | 100 | 99 | 0.61 U | 0.61 U | 0.61 U | 37000 | 89000 | 6500 | 2100 | 82 | 6.3 | |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | | 99.2 | 69.4 | 77.4 |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | | 19.2 | 4.9 U | 33.7 |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | | 89.3 | 61.6 | 36.3 |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | | 310 | 38.9 | 53.1 |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | | 1390 | 193 | 184 |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | | 385 | 37.7 | 50.9 |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | | 126 | 15 UJ | 22 |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | | 29.8 | 9.8 U | 192 |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | | 107 | 9.8 U | 34.5 |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | | 9.86 U | 9.8 U | 9.91 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C651-C | LW3-C652-B | LW3-C652-C | LW3-C652-D | LW3-C658-B | LW3-C658-C | LW3-C658-D | LW3-C662-B | LW3-C662-C | LW3-C662-D | LW3-C662-E | LW3-C664-B | LW3-C664-C | LW3-C665-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 128 - 173 | 30 - 83 | 83 - 210 | 210 - 283 | 30 - 151 | 151 - 273 | 273 - 371 | 30 - 82 | 82 - 181 | 181 - 256 | 256 - 327 | 30 - 115 | 115 - 200 | 30 - 152 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | | 900 | 107 | 198 |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | | 1920 | 90.4 | 280 |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | | 1660 | 80 | 232 |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | | 3510 | 176 | 384 |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | | 212 | 8.07 | 42.5 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | | 2540 | 140 | 381 |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | | 1410 | 76.1 | 183 |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | | 193 | 9.13 | 36.8 |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | | 616 | 48.8 | 95.8 |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | | 995 | 62.7 | 128 |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | | 5210 | 304 | 937 |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | | 21.3 | 4.9 U | 4.96 U |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | | 4510 | 250 | 605 |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | | 73.9 | 4.9 U | 13.1 |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | | 75.7 | 4.93 | 21 |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | | 1310 | 64.5 | 320 |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | | 71.9 | 4.9 U | 20.1 |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | | 33.1 | 4.9 U | 15.5 |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | | 1100 | 46.5 | 167 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | | 5630 | 255 | 1070 |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | | 2280 | 101 | 423 |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | | 6620 | 298 | 1790 |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | | 6760 | 288 | 1230 |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | | 916 | 35.3 | 132 |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | | 385 | 14.6 | 64.3 |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | | 2150 | 101 | 713 |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | | 1500 | 60.3 | 217 |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | | 32.3 | 4.9 U | 6.01 |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | | 305 | 12.1 | 121 |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | | 7580 | 324 | 1840 |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | | 871 | 32.4 | 260 |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | | 12.4 | 4.9 U | 10.8 |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | | 68.5 | 4.9 U | 29.5 |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | | 3410 | 125 | 564 |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | | 55.4 | 4.9 U | 13.3 |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | | 66.6 | 4.9 U | 24.2 |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | | 8880 | 366 | 1880 |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | | 303 | 9.15 | 62.2 |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | | 7280 | 322 | 1740 |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | | 280 | 14.9 | 35.6 |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | | 117 | 4.9 U | 65 |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | | 3390 | 4.9 U | 571 |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | | 551 | 24.1 | 138 |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | | 159 | 7.26 | 88.7 |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | | 15.7 | 1.52 U | 8.64 |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | | 817 | 18.7 | 256 |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | | 4650 | 158 | 1740 |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | | 1180 | 31.8 | 390 |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | | 23.8 | 4.9 U | 7.82 |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | | 2270 | 47.8 | 711 |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | | 1560 | 54.9 | 696 |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | | 131 | 5.14 | 27.1 |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | | 11000 | 337 | 4090 |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | | 57.1 | 4.9 U | 21.8 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | | 8220 | 248 | 2870 |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | | 97.4 | 4.9 U | 30.7 |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C651-C | LW3-C652-B | LW3-C652-C | LW3-C652-D | LW3-C658-B | LW3-C658-C | LW3-C658-D | LW3-C662-B | LW3-C662-C | LW3-C662-D | LW3-C662-E | LW3-C664-B | LW3-C664-C | LW3-C665-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 128 - 173 | 30 - 83 | 83 - 210 | 210 - 283 | 30 - 151 | 151 - 273 | 273 - 371 | 30 - 82 | 82 - 181 | 181 - 256 | 256 - 327 | 30 - 115 | 115 - 200 | 30 - 152 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | | 2590 | 79.1 | 866 |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | | 5140 | 210 | 2340 |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | | 104 | 4.92 | 96.8 |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | | 318 | 15.2 | 166 |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | | 1370 | 24.7 | 580 |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | | 6800 | 212 | 2680 |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | | 746 | 22.5 | 325 |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | | 476 | 16.5 | 175 |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | | 10700 | 335 | 3880 |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | | 83.6 | 4.9 U | 26.4 |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | | 60.2 | 4.9 U | 25.7 |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | | 111 | 1.78 J | 32.9 |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | | 530 | 23.5 | 250 |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | | 93.7 | 5.01 | 46.8 |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | | 59.9 | 4.9 U | 20.7 |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | | 71.3 | 1.86 U | 28.9 |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | | 184 | 4.9 U | 63.2 |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | | 32.6 | 1 J | 15.9 |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | | 1090 | 23.3 | 500 |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | | 269 | 6.12 | 111 |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | | 792 | 27.2 | 360 |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | | 8.08 | 4.9 U | 4.96 U |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | | 3280 | 84 | 1240 |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | | 473 | 17.7 | 238 |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | | 587 | 15.2 | 225 |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | | 2600 | 80.6 | 929 |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | | 2160 | 58.1 | 775 |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | | 272 | 6.59 | 114 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | | 11300 | 268 | 4330 |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | | 13400 | 364 | 4670 |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | | 211 | 11.3 | 97.2 |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | | 2120 | 35.8 | 725 |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | | 607 | 4.9 U | 163 |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | | 3040 | 116 | 1430 |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | | 249 | 10 | 142 |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | | 97.2 | 5.71 | 59.3 |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | | 69.6 | 4.9 U | 39 |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | | 4380 | 115 | 1380 |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | | 8.69 | 4.9 U | 4.96 U |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | | 13400 | 366 | 5550 |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | | 583 | 31.4 | 326 |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | | 765 | 14.7 | 317 |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | | 115 | 2.31 U | 58.4 |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | | 888 | 16.8 | 339 |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | | 20.1 | 4.9 U | 8.6 |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | | 316 | 7 | 132 |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | | 30 | 4.9 U | 18.9 |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | | 4.3 U | 0.877 U | 1.72 U |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | | 3960 | 88.2 | 1410 |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | | 1120 | 27.4 | 433 |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | | 713 | 18.9 | 271 |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | | 102 | 4.9 U | 34.2 |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | | 5150 | 121 | 1950 |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | | 269 | 7.07 | 94.2 |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | | 750 | 20.9 | 299 |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | | 2980 | 80 | 1180 |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | | 1180 | 37.1 | 492 |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | | 2600 | 71.1 | 1040 |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | | 10500 | 239 | 3890 |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | | 52.5 | 4.9 U | 14.1 |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C651-C | LW3-C652-B | LW3-C652-C | LW3-C652-D | LW3-C658-B | LW3-C658-C | LW3-C658-D | LW3-C662-B | LW3-C662-C | LW3-C662-D | LW3-C662-E | LW3-C664-B | LW3-C664-C | LW3-C665-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 128 - 173 | 30 - 83 | 83 - 210 | 210 - 283 | 30 - 151 | 151 - 273 | 273 - 371 | 30 - 82 | 82 - 181 | 181 - 256 | 256 - 327 | 30 - 115 | 115 - 200 | 30 - 152 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | | 7030 | 207 | 2830 |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | | 2880 | 68.9 | 1090 |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | | 514 | 10.9 | 211 |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | | 8.68 | 4.9 U | 8.43 |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | | 143 | 3.33 J | 53.4 |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | | 840 | 19.8 | 315 |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | | 169 | 4.9 U | 65.3 |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | | 541 | 15.1 | 217 |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | | 2250 | 57 | 1020 |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | | 954 | 24.4 | 418 |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | | 3050 | 88.3 | 1520 |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | | 97 | 4.9 U | 51.5 |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | | 145 | 4.9 U | 67.8 |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | | 2860 | 81.5 | 1380 |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | | 379 | 11.6 | 186 |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | | 340 | 11.1 | 181 |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | | 468 | 13.9 | 253 |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | | 4.93 U | 4.9 U | 4.96 U |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | | 106 | 4.9 U | 52.5 |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | | 849 | 30.8 | 477 |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | | 124 | 5.47 | 64.6 |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | | 212 | 9.01 | 121 |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | | 601 | 33 | 242 |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | | 265000 T | 9190 JT | 86500 T |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | | 3.61 T | 0.11 JT | 1.72 T |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | | 208 T | 131 T | 147 T |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | | 3250 T | 377 T | 735 T |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | | 24400 T | 1310 T | 3690 T |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | | 60700 T | 2440 T | 13300 T |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | | 59500 T | 1850 JT | 22500 T |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | | 63100 T | 1680 T | 24300 T |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | | 41500 T | 1040 JT | 15900 T |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | | 10600 T | 288 T | 5130 T |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | | 1190 T | 45.3 T | 663 T |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.16 U | 0.8 U | 0.39 | 0.99 NJ | 0.16 U | 0.16 U | 0.16 U | 99 | 380 | 59 NJ | 8.1 | 14 J | 1.3 | 1.3 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.047 U | 0.23 U | 0.15 U | 0.39 U | 0.067 J | 0.046 U | 0.046 U | 23 U | 66 U | 8.2 U | 1.6 J | 2.5 U | 0.3 J | 0.77 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.061 U | 0.84 NJ | 0.37 | 0.57 | 0.061 U | 0.061 U | 0.061 U | 43 U | 150 | 6.1 U | 8.6 J | 11 | 0.5 J | 3 |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.26 U | 5.1 | 0.86 | 1.7 | 0.073 U | 0.073 U | 0.073 U | 280 | 1300 J | 52 U | 25 U | 22 | 1.8 | 2.7 J |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.16 U | 0.65 U | 0.41 NJ | 1.2 J | 0.027 U | 0.027 U | 0.027 U | 110 J | 500 J | 16 U | 5.4 U | 16 NJ | 1.3 J | 5.9 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.18 U | 2.9 | 0.8 | 1 J | 0.18 U | 0.18 U | 0.24 U | 9 U | 35 U | 18 U | 3.6 U | 25 | 1.9 J | 3.8 U |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.6 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 12 U | 18 U | 16 U | 5 U | 0.6 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.037 U | 1.7 U | 0.042 U | 0.062 U | 0.037 U | 0.037 U | 0.037 U | 35 U | 110 U | 13 U | 3.3 U | 0.9 U | 0.037 U | 0.35 NJ |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.49 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 8.2 NJ | 38 J | 9.7 U | 2 U | 0.49 U | 0.1 NJ | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.16 U | 0.031 U | 0.07 U | 0.031 U | 0.031 U | 0.031 U | 9.8 U | 28 U | 13 U | 3.3 U | 1.1 U | 0.15 U | 0.65 J |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.7 U | 0.14 U | 1.4 NJ | 0.14 U | 0.14 U | 1.2 U | 13 U | 46 U | 14 U | 2.8 U | 0.7 U | 0.14 U | 0.26 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.16 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 9.8 U | 18 U | 3.1 U | 3.3 U | 0.16 U | 0.031 U | 0.099 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.3 U | 0.65 U | 0.13 U | 0.42 U | 0.087 U | 0.087 U | 0.087 U | 29 U | 94 U | 23 U | 3.3 U | 7.1 U | 0.34 U | 2.2 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.55 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 13 J | 11 U | 11 U | 2.2 U | 0.55 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.077 J | 0.65 U | 0.13 U | 0.14 U | 0.03 U | 0.03 U | 0.03 U | 21 U | 39 U | 4.9 U | 2.6 U | 0.9 U | 0.14 U | 0.18 NJ |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.16 U | 0.29 U | 0.058 U | 0.14 U | 0.058 U | 0.058 U | 0.058 U | 20 U | 90 U | 31 U | 4.5 U | 0.9 U | 0.058 U | 0.2 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.36 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 18 U | 7.1 U | 7.1 U | 3.3 U | 0.95 U | 0.22 J | 0.34 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.16 U | 0.21 U | 0.042 U | 0.042 U | 0.042 U | 0.042 U | 0.2 | 37 U | 31 U | 40 U | 8.5 U | 0.9 U | 0.16 U | 0.52 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.029 U | 0.74 U | 0.04 U | 0.44 NJ | 0.029 U | 0.029 U | 0.2 U | 21 U | 260 NJ | 22 U | 5.7 U | 2.9 U | 0.15 U | 0.63 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 0.54 NJ | 0.1 J | 0.2 U | 0.062 U | 0.062 U | 0.062 U | 18 U | 77 U | 41 U | 9 U | 0.31 U | 0.36 U | 0.5 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.49 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 4.3 U | 66 U | 7.6 U | 1.6 U | 0.9 U | 0.11 J | 0.59 J |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.17 J | 0.34 U | 0.087 U | 0.14 U | 0.068 U | 0.068 U | 0.068 U | 16 U | 45 U | 7.9 U | 1.4 U | 5.9 NJ | 0.17 J | 0.37 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.2 U | 0.38 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 36 U | 96 U | 30 U | 8.1 U | 5.3 U | 0.075 U | 0.81 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.6 UJ | 0.12 UJ | 0.12 UJ | 0.12 UJ | 0.12 UJ | 0.12 U | 45 J | 170 NJ | 12 U | 4.8 U | 0.9 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.13 U | 1.4 NJ | 0.13 U | 0.28 | 0.28 U | 0.094 U | 0.33 U | 70 NJ | 130 J | 26 J | 5.1 | 0.56 U | 0.14 J | 0.3 J |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.3 UT | 1.4 JT | 0.13 UT | 0.62 T | 0.28 UT | 0.094 UT | 0.33 UT | 70 JT | 130 JT | 26 JT | 5.1 T | 5.1 JT | 0.14 JT | 2 JT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C651-C | LW3-C652-B | LW3-C652-C | LW3-C652-D | LW3-C658-B | LW3-C658-C | LW3-C658-D | LW3-C662-B | LW3-C662-C | LW3-C662-D | LW3-C662-E | LW3-C664-B | LW3-C664-C | LW3-C665-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 128 - 173 | 30 - 83 | 83 - 210 | 210 - 283 | 30 - 151 | 151 - 273 | 273 - 371 | 30 - 82 | 82 - 181 | 181 - 256 | 256 - 327 | 30 - 115 | 115 - 200 | 30 - 152 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.16 UT | 1.7 UT | 0.058 UT | 0.14 UT | 0.058 UT | 0.058 UT | 0.058 UT | 35 UT | 110 UT | 31 UT | 4.5 UT | 1.1 UT | 0.15 UT | 1 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.26 UT | 5.1 T | 1.3 T | 2.7 JT | 0.16 UT | 0.16 UT | 0.16 UT | 380 T | 1700 JT | 59 JT | 8.1 T | 36 JT | 3.1 T | 2.7 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 0.26 UT | 8.8 JT | 2.8 JT | 5.5 JT | 0.067 JT | 0.18 UT | 0.24 UT | 490 JT | 2300 JT | 59 JT | 18 JT | 88 JT | 7.1 JT | 12 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.16 UT | 0.65 UT | 0.41 JT | 1.2 JT | 0.067 JT | 0.046 UT | 0.046 UT | 110 JT | 500 JT | 16 UT | 1.6 JT | 16 JT | 1.6 JT | 5.9 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.18 UT | 3.7 JT | 1.2 T | 1.6 JT | 0.18 UT | 0.18 UT | 0.24 UT | 43 UT | 150 T | 18 UT | 8.6 JT | 36 T | 2.4 JT | 3 T |
| Toxaphene | 8001-35-2 | ug/kg | 7.6 U | 120 U | 6.5 U | 11 U | 3.4 U | 3.4 U | 3.4 U | 3000 U | 6500 U | 830 U | 400 U | 160 U | 14 U | 38 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.048 U | 0.14 U | 0.028 U | 0.34 | 0.027 U | 0.027 U | 0.027 U | 15 U | 2.7 U | 13 U | 3.3 U | 5.1 NJ | 0.15 U | 1.7 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.034 U | 0.17 U | 0.036 U | 0.053 U | 0.034 U | 0.034 U | 0.034 U | 9.8 U | 61 U | 3.7 U | 0.88 U | 0.9 U | 0.034 U | 0.14 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 49 J | 27 J | 61 J | 81 J | 2.1 J | 1.6 U | 1.3 U | 10000 J | 110000 J | 7700 J | 1250 JT | 320 J | 18 J | 230 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 42 J | 12 J | 30 J | 46 J | 1.6 U | 1.6 U | 1.3 U | 6700 J | 88000 J | 5600 J | 880 JT | 280 J | 11 J | 200 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 130 J | 42 J | 79 J | 160 J | 11 U | 5.9 U | 3.1 J | 7200 J | 37000 J | 3700 J | 1500 JT | 720 J | 49 J | 650 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 92 J | 17 U | 37 J | 78 J | 5.9 U | 4.8 U | 3 U | 2800 J | 15000 J | 1400 J | 770 JT | 540 J | 21 J | 450 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 179 JA | 69 JA | 140 JA | 241 JA | 2.1 JA | 5.9 UA | 3.1 JA | 17200 JA | 147000 JA | 11400 JA | 2750 JA | 1040 JA | 67 JA | 880 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 134 JA | 12 JA | 67 JA | 124 JA | 5.9 UA | 4.8 UA | 3 UA | 9500 JA | 103000 JA | 7000 JA | 1650 JA | 820 JA | 32 JA | 650 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.32 U | 0.26 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.26 U | 9.7 U | 110 | 1.9 U | 0.33 U | 4 U | 0.67 J | 0.71 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.26 U | 0.21 U | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 0.26 U | 2.1 J | 240 | 0.35 U | 0.27 U | 0.6 U | 0.24 U | 1.4 NJ |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 7.4 U | 0.68 U | 0.7 U | 0.71 U | 0.7 U | 0.71 U | 6.1 U | 9.7 U | 31 U | 1.2 U | 3.7 U | 7.3 U | 7 U | 4.1 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.17 U | 0.14 U | 0.14 U | 0.15 U | 0.14 U | 0.15 U | 0.51 U | 0.62 U | 3.3 U | 0.14 U | 0.18 U | 2 J | 0.72 J | 0.31 NJ |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 480 U | 850 U | 130 U | 41 U | 5 U | 1 U | 5 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 U | R | R | R | R | R | 5.5 U | 2700 U | 4700 U | 690 U | 230 U | 28 U | 5.5 U | 28 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 85 U | 85 U | 85 U | 17 U | 17 U | 17 U | 8200 U | 15000 U | 2200 U | 700 U | 85 UJ | 17 UJ | 85 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 10 U | 10 U | 10 U | 2 U | 2 U | 2 U | 960 U | 1700 U | 250 U | 82 U | 10 U | 2 U | 10 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 7.5 U | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 720 U | 1300 U | 190 U | 62 U | 7.5 U | 1.5 U | 7.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 7.5 U | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 720 U | 1300 U | 190 U | 62 U | 7.5 U | 1.5 U | 7.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 7 U | 7 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 680 U | 1200 U | 180 U | 57 U | 7 U | 1.4 U | 7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 7 U | 7 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 680 U | 1200 U | 180 U | 57 U | 7 U | 1.4 U | 7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 35 | 7.5 U | 7.5 U | 60 J | 1.5 U | 1.5 U | 1.5 U | 720 U | 1300 U | 190 U | 62 U | 8.8 J | 1.5 U | 7.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 90 U | 90 U | 90 U | 18 U | 18 U | 18 U | 8700 U | 16000 U | 2300 U | 740 U | 90 U | 18 U | 90 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.24 U | 0.2 U | 0.21 U | 5.4 J | 0.21 U | 0.21 U | 1.6 U | 14 U | 1300 | 4.2 J | 2.4 J | 7.2 U | 0.23 U | 11 |
| Phenol | 108-95-2 | ug/kg | 2 U | 10 U | 10 U | 12 J | 2 U | 2.2 J | 2 U | 960 U | 1700 U | 370 U | 82 U | 10 U | 2 U | 10 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 7 U | 35 U | 35 U | 53 J | 7 U | 7 U | 7 U | 3400 U | 6000 U | 880 U | 290 U | 79 J | 7 U | 170 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 16 U | 16 U | 18 J | 3.2 U | 3.2 U | 3.2 U | 1600 U | 2800 U | 400 U | 140 U | 16 U | 3.2 U | 16 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 22 | 40 U | 40 U | 40 U | 7.9 U | 7.9 U | 7.9 U | 3800 U | 6800 U | 990 U | 330 U | 40 U | 7.9 U | 40 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 1.3 U | 6.5 U | 6.5 U | 6.5 U | 1.3 U | 1.3 U | 1.3 J | 630 U | 1200 U | 170 U | 53 U | 6.5 U | 1.3 U | 6.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 480 U | 850 U | 130 U | 41 U | 5 U | 1 U | 5 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 8.5 U | 8.5 U | 8.5 U | 1.7 U | 1.7 U | 1.7 U | 820 U | 1500 U | 220 U | 70 U | 8.5 U | 1.7 U | 8.5 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 13 U | 13 U | 13 U | 2.6 U | 2.6 U | 2.6 U | 1300 U | 2300 U | 330 U | 110 U | 13 U | 2.6 U | 13 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 15 U | 15 U | 15 U | 2.9 U | 2.9 U | 2.9 U | 1400 U | 2500 U | 370 U | 120 U | 15 U | 2.9 U | 15 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 15 U | 15 U | 15 U | 3 U | 3 U | 3 U | 1500 U | 2600 U | 380 U | 130 U | 15 U | 3 U | 15 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 15 U | 15 U | 15 U | 2.9 U | 2.9 U | 2.9 U | 1400 U | 2500 U | 370 U | 120 U | 15 U | 2.9 U | 15 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 7.5 U | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 720 U | 1300 U | 190 U | 62 U | 7.5 U | 1.5 U | 7.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 10 U | 10 U | 10 U | 2 U | 2 U | 2 U | 960 U | 1700 U | 250 U | 82 U | 10 U | 2 U | 10 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 8 U | 8 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 770 U | 1400 U | 200 U | 66 U | 8 U | 1.6 U | 8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 16 U | 16 U | 16 U | 3.2 U | 3.2 U | 3.2 U | 1600 U | 2800 U | 400 U | 140 U | 16 U | 3.2 U | 16 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 19 U | 19 U | 19 U | 3.7 U | 3.7 U | 3.7 U | 1800 U | 3200 U | 470 U | 160 U | 19 U | 3.7 U | 19 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 13 U | 13 U | 13 U | 2.5 U | 2.5 U | 2.5 U | 1200 U | 2200 U | 320 U | 110 U | 13 U | 2.5 U | 13 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 8 U | 8 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 770 U | 1400 U | 200 U | 66 U | 8 U | 1.6 U | 8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 9.5 U | 9.5 U | 9.5 U | 1.9 U | 1.9 U | 1.9 U | 920 U | 1700 U | 240 U | 78 U | 9.5 U | 1.9 U | 9.5 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 7 U | 7 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 680 U | 1200 U | 180 U | 57 U | 7 U | 1.4 U | 7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 9 U | 9 U | 9 U | 1.8 U | 1.8 U | 1.8 U | 870 U | 1600 U | 230 U | 74 U | 9 U | 1.8 U | 9 U |
| Aniline | 62-53-3 | ug/kg | R | 7.5 U | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | R | R | R | R | 7.5 U | 1.5 U | 7.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 5.5 U | 5.5 U | 5.5 U | 1.1 U | 1.1 U | 1.1 U | 530 U | 940 U | 140 U | 45 U | 5.5 U | 1.1 U | 5.5 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 480 U | 480 U | 480 U | 96 U | 96 U | R | 47000 U | 82000 U | 12000 U | 4000 U | R | R | R |
| Benzyl alcohol | 100-51-6 | ug/kg | 2.1 U | 11 U | 11 U | 11 U | 2.1 U | 2.2 J | 2.1 U | 1100 U | 1800 U | 270 U | 86 U | 11 U | 2.1 U | 11 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 7.5 U | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 720 U | 1300 U | 190 U | 62 U | 7.5 U | 1.5 U | 7.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 9.5 U | 9.5 U | 9.5 U | 1.9 U | 1.9 U | 1.9 U | 920 U | 1700 U | 240 U | 78 U | 9.5 U | 1.9 U | 9.5 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 13 U | 13 U | 13 U | 2.6 U | 2.6 U | 2.6 U | 1300 U | 2300 U | 330 U | 110 U | 13 U | 2.6 U | 13 U |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 6.5 U | 7 J | 11 J | 1.3 U | 1.3 U | 1.3 U | 27000 | 210000 | 24000 J | 6000 | 59 | 28 | 12 J |
| Dibenzofuran | 132-64-9 | ug/kg | 1.6 J | 3.6 | 2.5 | 15 | 0.59 U | 0.59 U | 0.59 U | 11000 | 140000 | 9400 | 2700 | 150 | 58 | 66 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 U | 0.34 UJ | 0.068 UJ | 0.14 UJ | 0.068 UJ | 0.068 UJ | 0.2 U | 9.8 U | 6.8 U | 7.7 U | 1.8 U | 1.2 J | 0.068 U | 0.25 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C651-C | LW3-C652-B | LW3-C652-C | LW3-C652-D | LW3-C658-B | LW3-C658-C | LW3-C658-D | LW3-C662-B | LW3-C662-C | LW3-C662-D | LW3-C662-E | LW3-C664-B | LW3-C664-C | LW3-C665-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 128 - 173 | 30 - 83 | 83 - 210 | 210 - 283 | 30 - 151 | 151 - 273 | 273 - 371 | 30 - 82 | 82 - 181 | 181 - 256 | 256 - 327 | 30 - 115 | 115 - 200 | 30 - 152 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.7 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 1.1 U | 7 U | 14 U | 14 U | 2.8 U | 0.84 J | 0.14 U | 0.38 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 150 U | 150 U | 150 U | 29 U | 29 U | 29 U | 14000 U | 25000 U | 3700 U | 1200 U | 150 U | 29 U | 150 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.8 U | 0.16 U | 0.16 U | 0.27 U | 0.16 U | 0.54 U | 8 U | 16 U | 16 U | 3.2 U | 2 | 0.23 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 480 U | 850 U | 130 U | 41 U | 5 U | 1 U | 5 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 11 U | 11 U | 11 U | 2.2 U | 2.2 U | 2.2 U | 1100 U | 1900 U | 280 U | 90 U | 11 U | 2.2 U | 11 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 31 U | 31 U | 31 U | 6.1 U | 6.1 U | 6.1 U | 3000 U | 5200 U | 760 U | 250 U | 31 U | 6.1 U | 31 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 8 U | 8 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 770 U | 1400 U | 200 U | 66 U | 8 U | 1.6 U | 8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 12 U | 12 U | 12 U | 2.4 U | 2.4 U | 2.4 U | 1200 U | 2100 U | 300 U | 98 U | 12 U | 2.4 U | 12 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C665-C | LW3-C665-D | LW3-C676-B | LW3-C676-C | LW3-C678-B | LW3-C678-C | LW3-C678-D | LW3-C678-E | LW3-C679-B | LW3-C679-C | LW3-C679-D | LW3-C686-B | LW3-C686-C | LW3-C686-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 152 - 275 | 275 - 366 | 30 - 62 | 62 - 182 | 30 - 134 | 134 - 245 | 245 - 348 | 348 - 395 | 30 - 151 | 151 - 273 | 273 - 317 | 30 - 130 | 130 - 216 | 216 - 287 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 6.8 U | 6.5 U | 1.3 U | 1.3 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 6.8 U | 6.5 U | 1.3 U | 1.3 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 6.8 U | 6.5 U | 1.3 U | 1.3 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 20 J | 10 J | 8.3 | 1.3 U | 6.8 U | 11 NJ | 1.3 U | 1.3 U | 3.7 U | 24 U | 56 U | 2.1 J | 1.3 U | 1.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 6.8 U | 6.5 U | 1.3 U | 1.3 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 75 | 13 NJ | 26 J | 1.3 U | 40 J | 82 | 1.3 U | 1.3 U | 12 U | 34 | 51 U | 13 J | 1.3 U | 1.3 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 78 | 13 | 27 | 1.3 U | 42 J | 100 J | 25 | 1.3 U | 16 | 35 NJ | 56 U | 11 J | 1.3 U | 1.3 U |
| Aroclor 1262 | 37324-23-5 | ug/kg | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 6.8 U | 6.5 U | 1.3 U | 1.3 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 6.8 U | 6.5 U | 7.3 U | 1.3 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 173 JT | 36 JT | 61.3 JT | 1.3 UT | 82 JT | 193 JT | 25 T | 1.3 UT | 16 T | 69 JT | 56 UT | 26.1 JT | 1.3 UT | 1.3 UT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.48 | 1.42 | 1.03 | 1.72 | 1.5 | 1.61 | 1.63 | 1.62 | 1.43 | 1.62 | 1.57 | 1.5 | 2.03 | 2.06 |
| Total organic carbon | TOC | percent | 2.45 | 2.12 | 1.65 | 0.03 J | 1.85 | 2.37 | 2.5 | 2.32 | 2.08 T | 1.9 | 2.97 | 2.03 | 0.35 | 0.04 J |
| Total solids | TSO | percent | 54.8 | 59.7 T | 57.2 | 80 | 48.1 | 58.6 | 57.8 | 59.4 | 50.3 | 54.6 | 51.7 | 54.1 | 84.8 | 86.2 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | 26.6 | 11.5 | 0.374 J | 0.0668 U | 2.89 | 0.1 J | 10.6 | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | 129 | 25.9 | 3.05 J | 0.102 U | 5.4 | 0.299 J | 11.7 | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | 1210 | 338 | 13.2 | 3.52 J | 45.6 | 6.51 | 92.3 | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | 10900 | 4140 | 62.7 | 52.9 | 234 | 32.8 | 668 | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | 59500 J | 17900 J | 379 | 275 | 1030 | 149 | 4520 J | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | 55.7 | 29.3 | 13.2 | 1.64 J | 124 | 215 | 351 | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | 369 | 149 | 35.5 | 0.785 J | 132 | 296 | 443 | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | 2010 | 312 | 27.2 | 2.31 J | 135 | 226 | 618 | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | 5980 | 2210 | 83.2 | 14.2 | 103 | 90.8 | 452 | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | 7420 | 2490 | 41.6 | 21 | 141 | 80.7 | 619 | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | 87600 JT | 27600 JT | 659 JT | 371 JT | 1950 T | 1100 JT | 7790 JT | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | 2.6 | 0.79 J | 0.0581 U | 0.0668 U | 0.439 J | 0.0821 U | 2.83 | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | 17.6 | 2.55 J | 0.343 J | 0.102 U | 0.748 J | 0.102 J | 2.89 J | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | 33.3 | 6.54 J | 0.175 U | 0.316 U | 0.883 J | 0.0638 U | 2.48 J | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | 265 | 42.8 | 1.79 J | 0.413 U | 7.24 | 1.07 J | 15.2 | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | 103 | 19.1 | 0.708 J | 0.58 J | 3.29 | 0.434 J | 6.65 | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | 5970 J | 1770 | 25.6 | 19.6 | 101 | 15.5 | 319 | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | 10.9 | 2.62 | 0.0714 U | 0.178 U | 55.8 | 70.9 | 129 | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | 17.7 | 4.74 J | 0.158 U | 0.0566 U | 47.1 | 98.9 | 175 U | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | 14.9 | 5.77 J | 0.546 J | 0.0535 U | 20.5 | 47.7 | 67.5 | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | 82.1 | 45.6 | 1.13 J | 0.357 U | 69.4 | 120 | 336 | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | 29.4 | 15.1 | 2.71 J | 0.391 U | 18.4 | 37.8 | 90.7 | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | 2.53 J | 0.89 J | 0.256 U | 0.391 U | 0.775 J | 1.86 J | 3.61 | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | 43.2 | 18.2 | 2.13 J | 0.404 U | 5.23 | 12.2 | 21.3 | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | 1000 | 457 | 39.9 | 2.98 J | 40.2 | 42.6 | 188 | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | 91.8 | 35.9 | 0.615 U | 0.393 U | 14.1 | 19.6 | 73.6 | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | 173 JT | 49 JT | 2.13 JT | 0.373 JT | 26.8 JT | 42.7 JT | 93.8 JT | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 2.82 A | 0.378 JA | 1.46 JA | 0.00017 JA | 175 JT | 51.9 JT | 2.57 JT | 0.373 JT | 27.8 JT | 45.7 JT | 99.5 JT | 0.674 JA | 0.00674 JA | 0.00014 JA |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.61 | 1.16 | 2.59 | 0.46 | 0.08 | 0.05 | 1.51 | 0.09 | 0 | 0 | 1.8 | 0 | 12.3 | 13.5 |
| Fine gravel | GS_FG | percent | 2.04 | 2.13 | 2.05 | 0.69 | 0.68 | 1.66 | 0.54 | 0.12 | 0.48 | 3.87 | 7.36 | 0.75 | 5.22 | 5.63 |
| Very coarse sand | GS_VCS | percent | 3.16 | 2.55 | 1.09 | 1.4 | 0.88 | 1.89 | 0.95 | 0.54 | 1.46 | 4.88 | 5.09 | 0.75 | 8.08 | 8.08 |
| Coarse sand | GS_CS | percent | 2.05 | 1.66 | 2.02 | 28.6 | 0.62 | 0.91 | 0.76 | 0.84 | 0.82 | 3.3 | 3.38 | 2.54 | 33.3 | 37.9 |
| Medium sand | GS_MS | percent | 1.51 | 1.48 | 14.1 | 61.2 | 0.5 | 0.95 | 0.65 | 0.87 | 0.91 | 2.59 | 1.94 | 2.06 | 32.9 | 29.1 |
| Fine sand | GS_FS | percent | 2.89 | 6.4 | 19.9 | 7.03 | 1.88 | 2.18 | 1.68 | 3.99 | 2.47 | 4.71 | 2.24 | 3.35 | 3.26 | 3.65 |
| Very fine sand | GS_VFS | percent | 10 | 15.9 | 13.8 | 0.29 | 7.09 | 9.29 | 8.52 | 12.2 | 11.1 | 13.5 | 5.21 | 12 | 0.62 | 0.23 |
| Fines | GS_FINES | percent | 80.9 T | 63.5 T | 44.9 T | 0.46 T | 89.2 T | 82 T | 83.6 T | 83.9 T | 82.6 T | 69.8 T | 74.1 T | 83.2 T | 3.09 T | 0.56 T |
| Coarse silt | GS_CSILT | percent | 18 | 14.7 | 12.5 | 0.04 | 20.6 | 19.2 | 14.7 | 14.5 | 36.2 | 28.7 | 20.8 | 23 | 0.65 | 0.09 |
| Medium silt | GS_MSILT | percent | 18.1 | 15.5 | 11.1 | 0.2 | 20.3 | 22 | 20.4 | 21.2 | 20.9 | 19.3 | 18.7 | 18.8 | 0.67 | 0.1 |
| Fine silt | GS_FSILT | percent | 15.6 | 10.8 | 7.09 | 0.04 | 17.9 | 13.2 | 17.5 | 17.1 | 11.5 | 10.3 | 13 | 14.2 | 0.55 | 0.06 |
| Very fine silt | GS_VFSILT | percent | 10.5 | 8.47 | 4.47 | 0.07 | 11.7 | 10.6 | 10.7 | 12.1 | 4.59 | 5.52 | 8.3 | 9.9 | 0.4 | 0.09 |
| 8-9 Phi clay | GS_CCLAY | percent | 7.16 | 4.92 | 2.58 | 0.03 | 6.71 | 6.77 | 7.34 | 6.48 | 2.98 | 2.73 | 4.67 | 6.46 | 0.39 | 0.03 |
| >9 Phi clay | GS_MFCLAY | percent | 11.5 | 9.09 | 7.17 | 0.08 | 12 | 10.2 | 13 | 12.5 | 6.44 | 3.21 | 8.6 | 10.8 | 0.43 | 0.19 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 31300 | 25700 | 23900 | 8400 | 25300 | 26800 | 30600 | 30500 | 29800 T | 30600 | 32200 | 29400 | 10200 | 8410 |
| Antimony | 7440-36-0 | mg/kg | 0.37 J | 0.37 J | 0.36 J | 0.19 J | 0.35 J | 0.38 J | 0.34 J | 0.3 J | 0.195 JT | 0.15 J | 0.2 J | 0.33 J | 0.14 J | 0.14 J |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C665-C | LW3-C665-D | LW3-C676-B | LW3-C676-C | LW3-C678-B | LW3-C678-C | LW3-C678-D | LW3-C678-E | LW3-C679-B | LW3-C679-C | LW3-C679-D | LW3-C686-B | LW3-C686-C | LW3-C686-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 152 - 275 | 275 - 366 | 30 - 62 | 62 - 182 | 30 - 134 | 134 - 245 | 245 - 348 | 348 - 395 | 30 - 151 | 151 - 273 | 273 - 317 | 30 - 130 | 130 - 216 | 216 - 287 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 3.99 | 4.5 | 4.9 | 2.21 | 3.23 | 2.72 | 2.64 | 2.71 | 4.38 T | 4.14 | 4.96 | 3.84 | 1.76 | 1.34 |
| Cadmium | 7440-43-9 | mg/kg | 0.404 | 1.01 | 0.308 | 0.029 | 0.344 | 0.437 | 0.447 | 0.241 | 0.3 T | 0.305 | 0.417 | 0.253 | 0.072 | 0.04 |
| Chromium | 7440-47-3 | mg/kg | 27.7 | 24.3 | 25.2 | 9.15 | 24.8 | 23.2 | 25.2 | 25.4 | 28.8 T | 31.1 | 30.3 | 24.8 | 9.79 | 7.86 |
| Copper | 7440-50-8 | mg/kg | 65.1 | 118 | 35.3 | 12.8 | 53.5 | 45.2 | 46.8 | 41.4 | 49.2 T | 44 | 49.2 | 63.2 | 15.4 | 10.9 |
| Lead | 7439-92-1 | mg/kg | 36.9 | 194 | 21.5 | 2.28 | 36.9 | 38.9 | 32.7 | 27.9 | 21.8 T | 28.2 | 35.1 | 21.2 | 8.85 | 1.96 |
| Mercury | 7439-97-6 | mg/kg | 0.313 | 3.59 | 0.14 J | 0.014 J | 0.131 J | 0.445 J | 0.237 J | 0.254 J | 0.153 | 0.107 | 0.133 | 0.075 J | 0.015 J | 0.006 UJ |
| Nickel | 7440-02-0 | mg/kg | 24.7 | 24.8 | 23.8 | 14.5 | 23.6 | 22.3 | 24.4 | 24.6 | 23.4 T | 25.3 | 25.2 | 24.6 | 13.2 | 12.4 |
| Silver | 7440-22-4 | mg/kg | 0.5 | 0.46 | 0.495 | 0.067 | 0.33 | 0.35 | 0.57 | 0.49 | 0.475 T | 0.39 | 0.63 | 0.27 | 0.05 | 0.09 |
| Zinc | 7440-66-6 | mg/kg | 208 | 251 | 170 | 46.4 | 175 | 168 | 141 | 109 | 148 T | 139 | 243 | 125 | 45.1 | 40.8 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 3900 | 98 | 43 | 0.31 U | 43 | 1200 | 47 | 16 | 4.3 | 7.1 | 34 | 2.5 | 0.41 J | 0.31 U |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 1800 | 130 | 120 | 0.39 U | 31 | 510 | 94 | 27 | 7.2 | 13 | 44 | 4 | 0.74 J | 0.39 U |
| Acenaphthene | 83-32-9 | ug/kg | 6100 | 440 | 1100 | 0.23 U | 230 | 3000 | 54 | 17 | 11 | 9.3 | 17 | 6.4 | 0.56 J | 0.23 U |
| Acenaphthylene | 208-96-8 | ug/kg | 40 | 80 | 78 | 0.24 U | 20 | 30 | 27 | 57 | 7.5 | 6.2 | 6 | 4.4 | 0.44 J | 0.24 U |
| Anthracene | 120-12-7 | ug/kg | 1600 | 170 | 140 | 0.47 U | 75 | 770 | 35 | 27 | 16 | 14 | 15 | 10 | 0.74 J | 0.47 U |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 810 | 470 | 810 | 0.48 U | 130 | 760 | 72 | 44 | 60 | 43 | 97 | 44 | 2.9 | 0.48 U |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 270 | 560 | 920 | 0.14 U | 82 | 210 | 84 | 62 | 64 | 48 | 97 | 45 | 1.9 | 0.14 U |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 530 | 640 | 910 | 0.25 U | 170 | 400 | 100 | 69 | 84 | 66 | 130 | 65 | 3 | 0.25 U |
| Benzo(e)pyrene | 192-97-2 | ug/kg | | | 560 | 0.18 U | 90 | 170 | 67 | 50 | 52 | 41 | 77 | 36 | 1.9 | 0.18 U |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 110 | 570 | 650 | 0.64 U | 60 | 100 | 88 | 73 | 53 | 43 | 65 | 33 | 1.8 | 0.64 U |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 160 | 180 | 250 | 0.15 U | 52 | 130 | 32 | 17 | 28 | 22 | 43 | 22 | 1.4 J | 0.15 U |
| Chrysene | 218-01-9 | ug/kg | 790 | 630 | 1100 | 0.29 J | 190 | 740 | 110 | 61 | 86 | 64 | 130 | 56 | 3.3 | 0.25 U |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 31 | 61 | 80 | 0.28 U | 12 | 24 | 9.9 | 6.4 | 7.9 | 6.1 | 12 | 6.5 | 0.28 U | 0.28 U |
| Dibenzothiophene | 132-65-0 | ug/kg | 940 | 110 | 440 | 0.21 U | 100 | 690 | 23 | 13 | 4.5 | 5.5 | 8.6 | 2.9 | 0.21 U | 0.21 U |
| Fluoranthene | 206-44-0 | ug/kg | 5600 | 1500 | 3800 | 0.92 J | 560 | 6500 | 260 | 210 | 130 | 110 | 180 | 98 | 6.1 | 0.61 U |
| Fluorene | 86-73-7 | ug/kg | 4500 | 270 | 310 | 0.5 U | 390 | 2900 | 46 | 25 | 11 | 11 | 18 | 6.2 | 0.5 U | 0.5 U |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 130 | 490 | 670 | 0.34 U | 67 | 110 | 75 | 57 | 53 | 41 | 70 | 38 | 1.8 | 0.16 U |
| Naphthalene | 91-20-3 | ug/kg | 510 | 620 | 210 | 0.9 U | 49 | 640 | 400 | 180 | 25 | 21 | 20 | 15 | 3.2 | 0.67 U |
| Perylene | 198-55-0 | ug/kg | | | 280 | 0.32 U | 78 | 76 | 85 | 98 | 43 | 45 | 47 | 70 | 3.4 | 0.32 U |
| Phenanthrene | 85-01-8 | ug/kg | 11000 | 1300 | 5600 | 1.1 J | 940 | 10000 | 260 | 180 | 67 | 68 | 110 | 45 | 3 | 0.75 U |
| Pyrene | 129-00-0 | ug/kg | 3600 | 1700 | 3600 | 0.91 J | 430 | 3600 | 280 | 230 | 120 | 120 | 190 | 87 | 7 | 0.37 U |
| High Molecular Weight PAH | HPAH | ug/kg | 12000 T | 6800 T | 13000 T | 2.1 JT | 1800 T | 13000 T | 1100 T | 830 T | 690 T | 560 T | 1000 T | 490 T | 29 JT | 0.64 UT |
| Low Molecular Weight PAH | LPAH | ug/kg | 26000 T | 3000 T | 7600 T | 1.1 JT | 1700 T | 18000 T | 920 T | 510 T | 140 T | 140 T | 230 T | 91 T | 8.7 JT | 0.75 UT |
| Total PAHs | 130498-29-2 | ug/kg | 38000 T | 9800 T | 20000 T | 3.2 JT | 3500 T | 30000 T | 2000 T | 1300 T | 830 T | 710 T | 1200 T | 590 T | 38 JT | 0.75 UT |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | | | 130 | 0.21 U | 360 | 480 | 190 | 58 | 13 | 47 | 100 | 8.3 | 0.21 U | 0.21 U |
| C1-Chrysene | C1_218-01-9 | ug/kg | | | 380 | 0.25 U | 130 | 410 | 130 | 77 | 60 | 60 | 220 | 40 | 2.1 | 0.25 U |
| C1-Fluorene | C1_86-73-7 | ug/kg | | | 130 | 0.5 U | 370 | 530 | 68 | 24 | 7.1 | 16 | 35 | 5.1 | 0.5 U | 0.5 U |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | | | 970 J | 0.61 U | 310 | 1600 J | 200 | 140 | 79 | 75 | 180 | 58 | 4.5 | 0.61 U |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | | | 1300 J | 0.75 U | 690 | 2400 J | 300 | 150 | 41 | 76 | 170 | 34 | 3.1 | 0.75 U |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | | | 240 | 0.21 U | 220 | 480 | 200 | 91 | 22 | 49 | 87 | 16 | 0.21 U | 0.21 U |
| C2-Chrysene | C2_218-01-9 | ug/kg | | | 220 | 0.25 U | 90 | 270 | 130 | 84 | 46 | 49 | 230 | 30 | 0.25 U | 0.25 U |
| C2-Fluorene | C2_86-73-7 | ug/kg | | | 350 | 0.5 U | 590 | 930 J | 220 | 84 | 18 | 52 | 100 | 11 | 0.5 U | 0.5 U |
| C2-Naphthalene | C2_91-20-3 | ug/kg | | | 310 | 0.37 U | 1400 J | 2700 J | 240 | 66 | 16 | 55 | 200 | 7.6 | 0.89 J | 0.37 U |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | | | 670 | 0.75 U | 530 | 1500 J | 420 | 200 | 58 | 110 | 270 | 36 | 2.3 | 0.75 U |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | | | 200 | 0.21 U | 170 | 370 | 200 | 130 | 29 | 45 | 120 | 18 | 0.21 U | 0.21 U |
| C3-Chrysene | C3_218-01-9 | ug/kg | | | 100 | 0.25 U | 61 | 150 | 130 | 78 | 43 | 42 | 180 | 25 | 0.25 U | 0.25 U |
| C3-Fluorene | C3_86-73-7 | ug/kg | | | 360 | 0.5 U | 520 | 1100 J | 340 | 150 | 34 | 77 | 190 | 20 | 0.5 U | 0.5 U |
| C3-Naphthalene | C3_91-20-3 | ug/kg | | | 610 | 0.37 U | 2000 J | 2800 J | 450 | 120 | 21 | 110 | 310 | 8.9 | 0.54 J | 0.37 U |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | | | 500 | 0.75 U | 430 | 1000 J | 580 | 280 | 59 | 140 | 410 | 43 | 4.7 | 0.75 U |
| C4-Chrysene | C4_218-01-9 | ug/kg | | | 59 | 0.25 U | 38 | 95 | 98 | 59 | 22 | 29 | 80 | 0.25 U | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | | | 430 | 0.37 U | 1100 J | 2000 J | 530 | 120 | 30 | 110 | 260 | 14 | 0.74 J | 0.37 U |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | | | 170 | 0.75 U | 200 | 430 | 240 | 210 | 41 | 50 | 210 | 29 | 0.75 U | 0.75 U |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | | | 400 | 0.61 U | 190 | 630 | 180 | 88 | 55 | 57 | 220 | 41 | 2.1 | 0.61 U |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | | | 210 | 0.61 U | 130 | 360 | 190 | 99 | 46 | 47 | 220 | 28 | 0.61 U | 0.61 U |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 98.5 | 7.34 | 21.4 J | 5.06 U | 25.1 | 43.7 | 4.88 U | 4.86 U | 20.8 | 89.7 | 76.7 | 17 | 4.92 U | 4.78 U |
| PCB002 | 2051-61-8 | pg/g | 70.6 | 13.8 | 8.4 J | 5.06 U | 27 | 34.6 | 11.1 | 11.5 | 29.5 | 30.5 | 25.3 | 35.5 | 4.92 U | 4.78 U |
| PCB003 | 2051-62-9 | pg/g | 98 | 14.2 | 40.4 J | 5.06 U | 41.1 | 60.6 | 10.2 | 10.3 | 24.6 | 66.1 | 95.8 | 20.8 | 4.92 U | 4.78 U |
| PCB004 & 010 | PCB004_010 | pg/g | 81.1 | 10.1 | 44.4 J | 10.1 U | 58.9 | 76.9 | 9.77 U | 9.71 U | 30.7 | 185 | 237 | 28.9 | 9.85 U | 9.56 U |
| PCB005 & 008 | PCB005_008 | pg/g | 326 | 60 | 293 | 10.1 U | 259 | 338 | 9.77 U | 9.71 U | 111 | 582 | 1150 | 87.9 | 29.7 | 9.56 U |
| PCB006 | 25569-80-6 | pg/g | 67.8 | 9.99 U | 86.1 J | 10.1 U | 58.6 | 64 | 9.77 U | 9.71 U | 27.2 | 365 | 287 | 24.3 | 9.85 U | 9.56 U |
| PCB007 & 009 | PCB007_009 | pg/g | 49.5 U | 9.99 U | 103 U | 10.1 U | 27.5 | 34.5 | 9.77 U | 9.71 U | 11.4 | 60.1 | 95.4 | 10.1 | 9.85 U | 9.56 U |
| PCB011 | 2050-67-1 | pg/g | 49.5 U | 9.99 U | 103 U | 10.1 U | 204 | 21.2 | 9.77 U | 9.71 U | 382 | 87.7 | 36.5 | 224 | 9.85 U | 9.56 U |
| PCB012 & 013 | PCB012_013 | pg/g | 45.7 J | 9.99 U | 66.8 J | 10.1 U | 51.7 | 47.1 | 9.77 U | 9.71 U | 17.3 | 69.8 | 116 | 13.5 | 9.85 U | 9.56 U |
| PCB014 | 34883-41-5 | pg/g | 49.5 U | 9.99 U | 103 U | 10.1 U | 9.99 U | 9.78 U | 9.77 U | 9.71 U | 10.1 U | 10 U | 9.89 U | 9.9 U | 9.85 U | 9.56 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C665-C | LW3-C665-D | LW3-C676-B | LW3-C676-C | LW3-C678-B | LW3-C678-C | LW3-C678-D | LW3-C678-E | LW3-C679-B | LW3-C679-C | LW3-C679-D | LW3-C686-B | LW3-C686-C | LW3-C686-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 152 - 275 | 275 - 366 | 30 - 62 | 62 - 182 | 30 - 134 | 134 - 245 | 245 - 348 | 348 - 395 | 30 - 151 | 151 - 273 | 273 - 317 | 30 - 130 | 130 - 216 | 216 - 287 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | 226 | 14.4 | 207 | 10.1 U | 249 | 187 | 9.77 U | 9.71 U | 136 | 397 | 757 | 86.9 | 15.5 | 9.56 U |
| PCB016 & 032 | PCB016_032 | pg/g | 642 | 212 | 506 | 5.06 U | 432 | 625 | 10.1 | 4.86 U | 177 | 956 | 2360 | 114 | 48.4 | 4.78 U |
| PCB017 | 37680-66-3 | pg/g | 546 | 167 | 485 | 5.06 U | 358 | 546 | 6.54 | 4.86 U | 135 | 748 | 1890 | 83.6 | 33.1 | 4.78 U |
| PCB018 | 37680-65-2 | pg/g | 925 | 386 | 810 | 5.06 U | 654 | 806 | 14 | 4.86 U | 257 | 1890 | 4320 | 150 | 75.2 | 4.78 U |
| PCB019 | 38444-73-4 | pg/g | 73.7 | 26.3 | 50.8 | 5.06 U | 62.9 | 61.8 | 4.88 U | 4.86 U | 31.4 | 123 | 242 | 25.7 | 5.6 | 4.78 U |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 779 | 316 | 768 | 5.06 U | 678 | 1100 | 20.9 | 4.86 U | 220 | 1000 | 3480 | 164 | 68.7 | 4.78 U |
| PCB022 | 38444-85-8 | pg/g | 453 | 171 | 347 | 5.06 U | 333 | 599 | 9.44 | 4.86 U | 123 | 623 | 1850 | 79.1 | 36.3 | 4.78 U |
| PCB023 | 55720-44-0 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 13.4 | 4.95 U | 4.92 U | 4.78 U |
| PCB024 & 027 | PCB024_027 | pg/g | 60.2 | 14.2 | 54.7 | 5.06 U | 50 | 60.5 | 4.88 U | 4.86 U | 21.8 | 97.8 | 223 | 16.4 | 4.97 | 4.78 U |
| PCB025 | 55712-37-3 | pg/g | 145 | 26.7 | 190 | 5.06 U | 123 | 189 | 4.88 U | 4.86 U | 53.3 | 427 | 953 | 33.9 | 9.64 | 4.78 U |
| PCB026 | 38444-81-4 | pg/g | 229 | 57.6 | 237 | 5.06 U | 167 | 266 | 6.22 | 4.86 U | 78.7 | 608 | 1080 | 47.4 | 17.7 | 4.78 U |
| PCB028 | 7012-37-5 | pg/g | 1970 | 625 | 1780 | 5.06 U | 1690 | 2700 | 32.7 | 4.86 U | 567 | 2020 | 7220 | 352 | 114 | 4.78 U |
| PCB029 | 15862-07-4 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 8.02 | 25 | 4.95 U | 4.92 U | 4.78 U |
| PCB030 | 35693-92-6 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB031 | 16606-02-3 | pg/g | 1440 | 489 | 1110 | 5.06 U | 908 | 1650 | 20.8 | 4.86 U | 365 | 1640 | 5330 | 198 | 97.1 | 4.78 U |
| PCB034 | 37680-68-5 | pg/g | 29.5 | 8.79 | 27 J | 5.06 U | 21.9 | 40.5 | 4.88 U | 4.86 U | 7.43 | 29.2 | 113 | 4.95 U | 4.92 U | 4.78 U |
| PCB035 | 37680-69-6 | pg/g | 39.6 | 5 U | 28.4 J | 5.06 U | 28.4 | 35.1 | 4.88 U | 4.86 U | 13.8 | 38.8 | 103 | 9.36 | 4.92 U | 4.78 U |
| PCB036 | 38444-87-0 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB037 | 38444-90-5 | pg/g | 483 | 72.5 | 396 | 5.06 U | 466 | 497 | 11 | 4.86 U | 203 | 625 | 1480 | 119 | 32.7 | 4.78 U |
| PCB038 | 53555-66-1 | pg/g | 39.7 | 5 U | 28.6 J | 5.06 U | 16.1 | 21.5 | 4.88 U | 4.86 U | 15.4 | 51.2 | 110 | 6.07 | 4.92 U | 4.78 U |
| PCB039 | 38444-88-1 | pg/g | 26.7 | 5 U | 29.6 J | 5.06 U | 18.1 | 24.1 | 4.88 U | 4.86 U | 6.06 | 11 | 21.6 | 5.69 | 4.92 U | 4.78 U |
| PCB040 | 38444-93-8 | pg/g | 391 | 27.7 | 323 | 5.06 U | 305 | 412 | 6.62 | 4.86 U | 103 | 397 | 1310 | 58.4 | 25.2 | 4.78 U |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 2260 | 379 | 1830 | 5.06 U | 1700 | 2210 | 62.4 | 4.86 U | 510 | 2010 | 6540 | 361 | 134 | 4.78 U |
| PCB042 & 059 | PCB042_059 | pg/g | 832 | 147 | 790 | 5.06 U | 649 | 853 | 17.8 | 4.86 U | 191 | 760 | 2420 | 130 | 44.5 | 4.78 U |
| PCB043 & 049 | PCB043_049 | pg/g | 2600 | 445 | 2740 | 5.06 U | 2140 | 2890 | 120 | 4.86 U | 588 | 2480 | 6880 | 593 | 119 | 4.78 U |
| PCB044 | 41464-39-5 | pg/g | 2580 | 532 | 2160 | 5.06 U | 1970 | 2750 | 87.9 | 5.04 | 588 | 2470 | 8120 | 449 | 145 | 4.78 U |
| PCB045 | 70362-45-7 | pg/g | 292 | 86.1 | 234 | 5.06 U | 229 | 306 | 4.88 U | 4.86 U | 68.4 | 363 | 1200 | 42.5 | 20 | 4.78 U |
| PCB046 | 41464-47-5 | pg/g | 129 | 33.6 | 102 | 5.06 U | 105 | 137 | 4.88 U | 4.86 U | 34.9 | 162 | 448 | 23.5 | 8.12 | 4.78 U |
| PCB047 | 2437-79-8 | pg/g | 936 | 157 | 984 | 5.06 U | 764 | 1060 | 34.2 | 4.86 U | 245 | 778 | 2130 | 273 | 37.7 | 4.78 U |
| PCB048 & 075 | PCB048_075 | pg/g | 450 | 102 | 422 | 5.06 U | 403 | 410 | 8.2 | 4.86 U | 107 | 574 | 1820 | 77 | 31.1 | 4.78 U |
| PCB050 | 62796-65-0 | pg/g | 24.8 U | 5 U | 9.71 J | 5.06 U | 10.6 | 9.82 | 4.88 U | 4.86 U | 5.03 U | 8.83 | 28.4 | 4.95 U | 4.92 U | 4.78 U |
| PCB051 | 68194-04-7 | pg/g | 105 | 25 | 96.9 | 5.06 U | 114 | 110 | 4.88 U | 4.86 U | 52 | 139 | 367 | 82.1 | 7.75 | 4.78 U |
| PCB052 & 069 | PCB052_069 | pg/g | 3280 | 595 | 2670 | 5.06 U | 2480 | 3470 | 201 | 5.4 | 806 | 3120 | 8430 | 721 | 163 | 4.78 U |
| PCB053 | 41464-41-9 | pg/g | 295 | 78 | 259 | 5.06 U | 273 | 311 | 5.79 | 4.86 U | 124 | 418 | 1070 | 122 | 23.6 | 4.78 U |
| PCB054 | 15968-05-5 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 9.86 | 4.89 U | 4.88 U | 4.86 U | 5.84 | 6.88 | 15.9 | 10.1 | 4.92 U | 4.78 U |
| PCB055 | 74338-24-2 | pg/g | 35.8 | 5.64 | 39 J | 5.06 U | 23.3 | 32.4 | 4.88 U | 4.86 U | 14.5 | 52.4 | 112 | 8.36 | 4.92 U | 4.78 U |
| PCB056 & 060 | PCB056_060 | pg/g | 1260 | 278 | 1190 | 5.06 U | 1020 | 1410 | 44.7 | 4.86 U | 369 | 1620 | 4730 | 215 | 79.5 | 4.78 U |
| PCB057 | 70424-67-8 | pg/g | 19.5 J | 5 U | 20.8 J | 5.06 U | 13.9 | 22.4 | 4.88 U | 4.86 U | 5.07 | 24.2 | 51.9 | 4.95 U | 4.92 U | 4.78 U |
| PCB058 | 41464-49-7 | pg/g | 39.8 | 5 U | 42.2 J | 5.06 U | 29.4 | 31.9 | 4.88 U | 4.86 U | 6.28 | 17.2 | 52.1 | 6.55 | 4.92 U | 4.78 U |
| PCB061 & 070 | PCB061_070 | pg/g | 3910 | 666 | 3350 | 5.06 U | 2900 | 4080 | 187 | 6.53 | 855 | 3630 | 10300 | 653 | 158 | 4.78 U |
| PCB062 | 54230-22-7 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB063 | 74472-34-7 | pg/g | 131 | 19.8 | 94.4 | 5.06 U | 108 | 139 | 5.19 | 4.86 U | 29.1 | 144 | 400 | 21.8 | 5.66 | 4.78 U |
| PCB065 | 33284-54-7 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB066 & 076 | PCB066_076 | pg/g | 2940 | 524 | 2750 | 5.06 U | 2580 | 3280 | 95.8 | 4.99 | 752 | 3040 | 8270 | 520 | 118 | 4.78 U |
| PCB067 | 73575-53-8 | pg/g | 68.1 | 11.5 | 57.2 | 5.06 U | 63.6 | 90.7 | 4.88 U | 4.86 U | 20.1 | 146 | 331 | 12.4 | 4.92 U | 4.78 U |
| PCB068 | 73575-52-7 | pg/g | 103 | 5.15 | 125 | 5.06 U | 59.3 | 74 | 4.88 U | 4.86 U | 13.8 | 34.8 | 72.3 | 17.2 | 4.92 U | 4.78 U |
| PCB073 | 74338-23-1 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB074 | 32690-93-0 | pg/g | 1510 | 243 | 927 | 5.06 U | 1040 | 1410 | 38.5 | 4.86 U | 324 | 1470 | 4250 | 206 | 60.5 | 4.78 U |
| PCB077 | 32598-13-3 | pg/g | 230 | 34.5 | 211 | 1.14 U | 204 | 269 | 8.67 | 2.01 U | 106 | 267 | 639 | 50.8 | 10.5 | 1.38 J |
| PCB078 | 70362-49-1 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB079 | 41464-48-6 | pg/g | 125 | 12.2 | 125 | 5.06 U | 73.6 | 111 | 12.1 | 4.86 U | 28 | 64.1 | 143 | 17.7 | 4.92 U | 4.78 U |
| PCB080 | 33284-52-5 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB081 | 70362-50-4 | pg/g | 10.8 U | 1.65 U | 5.92 U | 0.359 U | 5.96 | 11.2 | 2.32 U | 0.86 U | 6.25 | 13.2 | 37.9 | 3.13 J | 0.788 U | 0.351 U |
| PCB082 | 52663-62-4 | pg/g | 530 | 78.5 | 328 | 5.06 U | 433 | 506 | 39.7 | 4.86 U | 156 | 605 | 1460 | 121 | 21.3 | 4.78 U |
| PCB083 | 60145-20-2 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB084 & 092 | PCB084_092 | pg/g | 2910 | 358 | 2110 | 5.06 U | 2130 | 3360 | 410 | 4.86 U | 643 | 2240 | 5070 | 629 | 81.5 | 4.78 U |
| PCB085 & 116 | PCB085_116 | pg/g | 752 | 112 | 469 | 5.06 U | 601 | 771 | 66.4 | 4.86 U | 227 | 788 | 1930 | 171 | 26.1 | 4.78 U |
| PCB086 | 55312-69-1 | pg/g | 35.9 | 5.9 | 51.6 U | 5.06 U | 10.8 | 15.8 | 4.88 U | 4.86 U | 6 | 19.6 | 69.9 | 6.67 | 4.92 U | 4.78 U |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 1530 | 243 | 845 | 5.06 U | 1100 | 1590 | 219 | 4.86 U | 433 | 1560 | 3710 | 368 | 58.1 | 4.78 U |
| PCB088 & 091 | PCB088_091 | pg/g | 930 | 114 | 910 | 5.06 U | 748 | 976 | 102 | 4.86 U | 268 | 766 | 1740 | 271 | 28.2 | 4.78 U |
| PCB089 | 73575-57-2 | pg/g | 55 | 10.1 | 46.3 J | 5.06 U | 50.1 | 53.6 | 4.88 U | 4.86 U | 17.1 | 79.8 | 207 | 11.8 | 4.92 U | 4.78 U |
| PCB090 & 101 | PCB090_101 | pg/g | 7620 | 1000 | 5130 | 5.56 | 4910 | 8990 | 1480 | 8.86 | 1550 | 4910 | 11400 | 1540 | 188 | 4.78 U |
| PCB093 | 73575-56-1 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB094 | 73575-55-0 | pg/g | 29.7 | 5 U | 18.8 J | 5.06 U | 27.2 | 24.1 | 4.88 U | 4.86 U | 12.2 | 29.5 | 72.2 | 14 | 4.92 U | 4.78 U |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 5210 | 732 | 3620 | 5.06 U | 3570 | 6120 | 988 | 6.43 | 1170 | 3630 | 8960 | 1110 | 160 | 4.78 U |
| PCB096 | 73575-54-9 | pg/g | 42.8 | 6.27 | 33.6 J | 5.06 U | 38.2 | 40.1 | 4.88 U | 4.86 U | 18.6 | 49.9 | 132 | 17.8 | 4.92 U | 4.78 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C665-C | LW3-C665-D | LW3-C676-B | LW3-C676-C | LW3-C678-B | LW3-C678-C | LW3-C678-D | LW3-C678-E | LW3-C679-B | LW3-C679-C | LW3-C679-D | LW3-C686-B | LW3-C686-C | LW3-C686-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 152 - 275 | 275 - 366 | 30 - 62 | 62 - 182 | 30 - 134 | 134 - 245 | 245 - 348 | 348 - 395 | 30 - 151 | 151 - 273 | 273 - 317 | 30 - 130 | 130 - 216 | 216 - 287 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | 1540 | 212 | 1110 | 5.06 U | 1250 | 1590 | 139 | 4.86 U | 411 | 1410 | 3380 | 353 | 49.6 | 4.78 U |
| PCB099 | 38380-01-7 | pg/g | 3490 | 387 | 2860 | 5.06 U | 2490 | 4030 | 378 | 4.86 U | 747 | 2220 | 5240 | 744 | 79.6 | 4.78 U |
| PCB100 | 39485-83-1 | pg/g | 98.4 | 5 U | 99.5 | 5.06 U | 57.2 | 102 | 9.46 | 4.86 U | 29.8 | 38.2 | 56.7 | 47.7 | 4.92 U | 4.78 U |
| PCB103 | 60145-21-3 | pg/g | 217 | 19 | 194 | 5.06 U | 142 | 295 | 32.5 | 4.86 U | 47.5 | 94.5 | 174 | 50.3 | 5.11 | 4.78 U |
| PCB104 | 56558-16-8 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB105 | 32598-14-4 | pg/g | 994 | 169 | 579 | 1.24 J | 751 | 1060 | 124 | 1.99 U | 354 | 1310 | 2670 | 265 | 39.9 | 2.43 U |
| PCB106 & 118 | PCB106_118 | pg/g | 4420 | 602 | 2910 | 3.66 J | 3410 | 4960 | 602 | 5.96 | 1180 | 3760 | 8540 | 1010 | 120 | 2.44 U |
| PCB107 & 109 | PCB107_109 | pg/g | 536 | 59.5 | 380 | 5.06 U | 386 | 639 | 75.8 | 4.86 U | 112 | 383 | 824 | 106 | 11.1 | 4.78 U |
| PCB108 & 112 | PCB108_112 | pg/g | 291 | 36.5 | 204 | 5.06 U | 237 | 312 | 27.7 | 4.86 U | 70.4 | 252 | 610 | 60.6 | 9.26 | 4.78 U |
| PCB110 | 38380-03-9 | pg/g | 6930 | 896 | 4800 | 5.06 U | 5140 | 7390 | 1030 | 8.78 | 1750 | 5140 | 12400 | 1560 | 198 | 4.78 U |
| PCB111 & 115 | PCB111_115 | pg/g | 66.4 | 11.1 | 43.5 J | 5.06 U | 39.1 | 66.9 | 7.14 | 4.86 U | 18.4 | 67 | 177 | 16.7 | 4.92 U | 4.78 U |
| PCB113 | 68194-10-5 | pg/g | 42.9 | 12.5 | 30.4 J | 5.06 U | 14 | 42.6 | 4.88 U | 4.86 U | 10.8 | 29.1 | 83.1 | 7.76 | 4.92 U | 4.78 U |
| PCB114 | 74472-37-0 | pg/g | 51.9 | 10.2 | 40.1 J | 0.948 U | 42.8 | 51.3 | 5.16 | 2.12 U | 24.2 | 77.3 | 180 | 15.4 | 3.32 U | 2.39 U |
| PCB119 | 56558-17-9 | pg/g | 359 | 28.5 | 280 | 5.06 U | 235 | 468 | 41.6 | 4.86 U | 64 | 157 | 339 | 68.4 | 7.1 | 4.78 U |
| PCB120 | 68194-12-7 | pg/g | 59.8 | 8.16 | 68.7 | 5.06 U | 31.7 | 143 | 4.88 U | 4.86 U | 6.97 | 26.3 | 89.2 | 13.4 | 4.92 U | 4.78 U |
| PCB121 | 56558-18-0 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB122 | 76842-07-4 | pg/g | 43.5 | 6.23 | 30.3 J | 5.06 U | 34.7 | 36.4 | 5.87 | 4.86 U | 13.1 | 48.2 | 103 | 11.9 | 4.92 U | 4.78 U |
| PCB123 | 65510-44-3 | pg/g | 52.9 | 7.97 | 38.7 J | 1 U | 38.3 | 48 | 4.25 J | 2.84 U | 19 | 62.7 | 122 | 15.2 | 2.56 U | 2.56 U |
| PCB124 | 70424-70-3 | pg/g | 161 | 20.1 | 51.6 U | 5.06 U | 97.1 | 134 | 21.5 | 4.86 U | 45.4 | 141 | 296 | 33.7 | 5.99 | 4.78 U |
| PCB126 | 57465-28-8 | pg/g | 26 | 3.47 J | 13.1 J | 1 U | 17.8 | 25.9 | 4 J | 2.56 U | 10.1 | 28.7 | 52.5 | 6.22 | 3.64 U | 2.86 U |
| PCB127 | 39635-33-1 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB128 & 162 | PCB128_162 | pg/g | 867 | 118 | 519 | 5.06 U | 603 | 1030 | 209 | 4.86 U | 224 | 632 | 1350 | 207 | 26.9 | 4.78 U |
| PCB129 | 55215-18-4 | pg/g | 210 | 30.2 | 120 | 5.06 U | 152 | 243 | 47.9 | 4.86 U | 59.9 | 160 | 373 | 54.4 | 7.39 | 4.78 U |
| PCB130 | 52663-66-8 | pg/g | 624 | 70.6 | 393 | 5.06 U | 398 | 960 | 175 | 4.86 U | 130 | 401 | 818 | 123 | 12.3 | 4.78 U |
| PCB131 | 61798-70-7 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 16.8 | 18.1 | 4.95 U | 4.92 U | 4.78 U |
| PCB132 & 161 | PCB132_161 | pg/g | 2330 | 334 | 1350 | 5.06 U | 1460 | 3350 | 723 | 4.86 U | 495 | 1440 | 3170 | 475 | 55.1 | 4.78 U |
| PCB133 & 142 | PCB133_142 | pg/g | 440 | 47.4 | 283 | 5.06 U | 208 | 817 | 81.1 | 4.86 U | 70.6 | 226 | 394 | 83.8 | 7.09 | 4.78 U |
| PCB134 & 143 | PCB134_143 | pg/g | 413 | 57.7 | 244 | 5.06 U | 257 | 594 | 117 | 4.86 U | 89.3 | 274 | 605 | 83.2 | 10.9 | 4.78 U |
| PCB135 | 52744-13-5 | pg/g | 1760 | 219 | 1200 | 5.06 U | 917 | 2940 | 452 | 4.86 U | 331 | 835 | 1890 | 300 | 34.2 | 4.78 U |
| PCB136 | 38411-22-2 | pg/g | 1450 | 210 | 1000 | 5.06 U | 785 | 2130 | 465 | 4.86 U | 285 | 722 | 1660 | 250 | 31.7 | 4.78 U |
| PCB137 | 35694-06-5 | pg/g | 224 | 32.3 | 115 | 5.06 U | 163 | 213 | 34.5 | 4.86 U | 59.1 | 173 | 374 | 54.6 | 7.68 | 4.78 U |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 8180 | 1180 | 4770 | 5.67 | 4690 | 11900 | 2890 | 11.4 | 1730 | 4850 | 10800 | 1580 | 195 | 4.78 U |
| PCB139 & 149 | PCB139_149 | pg/g | 9030 | 1320 | 6120 | 8.18 | 5030 | 13600 | 3090 | 10.2 | 1860 | 4400 | 10500 | 1520 | 198 | 4.78 U |
| PCB140 | 59291-64-4 | pg/g | 170 | 17.6 | 120 | 5.06 U | 85.9 | 348 | 24.1 | 4.86 U | 26.1 | 53.3 | 98.9 | 31.6 | 4.92 U | 4.78 U |
| PCB141 | 52712-04-6 | pg/g | 1500 | 253 | 817 | 5.06 U | 760 | 2290 | 603 | 4.86 U | 306 | 817 | 2010 | 262 | 37.7 | 4.78 U |
| PCB144 | 68194-14-9 | pg/g | 378 | 72.3 | 212 | 5.06 U | 199 | 581 | 181 | 4.86 U | 83.4 | 233 | 534 | 62.7 | 11.2 | 4.78 U |
| PCB145 | 74472-40-5 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 5.41 | 4.95 U | 4.92 U | 4.78 U |
| PCB146 & 165 | PCB146_165 | pg/g | 2560 | 283 | 1730 | 5.06 U | 1230 | 4850 | 581 | 4.86 U | 395 | 1160 | 2210 | 451 | 38.4 | 4.78 U |
| PCB147 | 68194-13-8 | pg/g | 212 | 16.6 | 144 | 5.06 U | 132 | 269 | 25.8 | 4.86 U | 60.3 | 121 | 222 | 73.7 | 4.92 U | 4.78 U |
| PCB148 | 74472-41-6 | pg/g | 97.4 UJ | 9.95 | 76.9 | 5.06 U | 33.5 | 220 | 10.7 | 4.86 U | 14.5 | 28.5 | 34.7 | 19.5 | 4.92 U | 4.78 U |
| PCB150 | 68194-08-1 | pg/g | 74.1 | 5 U | 63.8 | 5.06 U | 25.3 | 101 | 7.57 | 4.86 U | 12.3 | 16 | 17.6 | 14.6 | 4.92 U | 4.78 U |
| PCB151 | 52663-63-5 | pg/g | 3100 | 438 | 1680 | 5.06 U | 1410 | 4600 | 976 | 4.86 U | 535 | 1330 | 3330 | 439 | 58.8 | 4.78 U |
| PCB152 | 68194-09-2 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.25 | 10.2 | 5.02 | 4.92 U | 4.78 U |
| PCB153 | 35065-27-1 | pg/g | 9960 | 1440 | 6430 | 6.94 | 5280 | 15400 | 3650 | 14.1 | 1870 | 4990 | 11200 | 1770 | 197 | 4.78 U |
| PCB154 | 60145-22-4 | pg/g | 548 | 46.5 | 463 | 5.06 U | 243 | 999 | 68.5 | 4.86 U | 76 | 141 | 229 | 94.5 | 7.07 | 4.78 U |
| PCB155 | 33979-03-2 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 5.92 | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB156 | 38380-08-4 | pg/g | 570 | 84.5 | 333 | 0.614 J | 362 | 754 | 179 | 1.97 U | 142 | 383 | 844 | 123 | 17.4 | 0.839 U |
| PCB157 | 69782-90-7 | pg/g | 89.3 | 10.3 | 46 J | 0.54 U | 71.6 | 81 | 10.9 | 1.92 U | 27.4 | 77.7 | 162 | 24.6 | 3.52 J | 0.891 U |
| PCB158 & 160 | PCB158_160 | pg/g | 615 | 95.3 | 309 | 5.06 U | 382 | 899 | 230 | 4.86 U | 158 | 455 | 1050 | 136 | 18.3 | 4.78 U |
| PCB159 | 39635-35-3 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB166 | 41411-63-6 | pg/g | 16.7 J | 5 U | 10.8 J | 5.06 U | 11.3 | 13 | 4.88 U | 4.86 U | 6.15 | 19.1 | 45.6 | 5.09 | 4.92 U | 4.78 U |
| PCB167 | 52663-72-6 | pg/g | 232 | 32.1 | 129 | 0.52 U | 151 | 301 | 73.3 | 2.02 U | 59.8 | 164 | 342 | 53.1 | 7.17 | 0.91 U |
| PCB168 | 59291-65-5 | pg/g | 30.4 | 5 U | 23.2 J | 5.06 U | 16.8 | 54.1 | 5.02 | 4.86 U | 5.03 U | 9.68 | 21.1 | 6.23 | 4.92 U | 4.78 U |
| PCB169 | 32774-16-6 | pg/g | 12.5 U | 3.4 U | 51.6 U | 0.606 U | 2.72 U | 2.8 U | 3.56 U | 2.5 U | 2.87 U | 3.16 U | 3.97 U | 2.16 U | 1.07 U | 1.12 U |
| PCB170 | 35065-30-6 | pg/g | 2550 | 396 | 1640 | 5.06 U | 1370 | 4610 | 1130 | 4.86 U | 531 | 1380 | 3140 | 433 | 47 | 4.78 U |
| PCB171 | 52663-71-5 | pg/g | 731 | 119 | 505 | 5.06 U | 396 | 1280 | 332 | 4.86 U | 155 | 415 | 892 | 128 | 14.2 | 4.78 U |
| PCB172 | 52663-74-8 | pg/g | 456 | 74.6 | 317 | 5.06 U | 257 | 889 | 183 | 4.86 U | 99.5 | 260 | 579 | 81.9 | 8.01 | 4.78 U |
| PCB173 | 68194-16-1 | pg/g | 60.7 | 9.96 | 48.3 J | 5.06 U | 33.5 | 99.7 | 25.3 | 4.86 U | 14.8 | 47.3 | 97.9 | 11.3 | 4.92 U | 4.78 U |
| PCB174 | 38411-25-5 | pg/g | 3410 | 541 | 2340 | 5.06 U | 1810 | 5560 | 1290 | 5.55 | 688 | 1790 | 4250 | 564 | 59.1 | 4.78 U |
| PCB175 | 40186-70-7 | pg/g | 158 | 27.6 | 96.4 | 5.06 U | 88.9 | 237 | 58.4 | 4.86 U | 34.5 | 97.2 | 227 | 26.1 | 4.92 U | 4.78 U |
| PCB176 | 52663-65-7 | pg/g | 486 | 78 | 300 | 5.06 U | 248 | 857 | 193 | 4.86 U | 94.7 | 263 | 582 | 82 | 8.54 | 4.78 U |
| PCB177 | 52663-70-4 | pg/g | 2040 | 299 | 1410 | 5.06 U | 1050 | 3890 | 710 | 4.86 U | 393 | 1020 | 2280 | 381 | 32.4 | 4.78 U |
| PCB178 | 52663-67-9 | pg/g | 810 | 118 | 544 | 5.06 U | 413 | 1620 | 255 | 4.86 U | 161 | 412 | 914 | 158 | 14.2 | 4.78 U |
| PCB179 | 52663-64-6 | pg/g | 1720 | 273 | 1190 | 5.06 U | 876 | 2960 | 611 | 4.86 U | 322 | 873 | 1970 | 299 | 31.2 | 4.78 U |
| PCB180 | 35065-29-3 | pg/g | 6710 | 1140 | 4610 | 5.06 U | 3560 | 12300 | 2930 | 10.6 | 1390 | 3490 | 8510 | 1130 | 112 | 4.78 U |
| PCB181 | 74472-47-2 | pg/g | 17.7 J | 5 U | 13 J | 5.06 U | 12.4 | 80.7 | 15.8 | 4.86 U | 19.8 | 189 | 143 | 4.95 U | 4.92 U | 4.78 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C665-C | LW3-C665-D | LW3-C676-B | LW3-C676-C | LW3-C678-B | LW3-C678-C | LW3-C678-D | LW3-C678-E | LW3-C679-B | LW3-C679-C | LW3-C679-D | LW3-C686-B | LW3-C686-C | LW3-C686-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 152 - 275 | 275 - 366 | 30 - 62 | 62 - 182 | 30 - 134 | 134 - 245 | 245 - 348 | 348 - 395 | 30 - 151 | 151 - 273 | 273 - 317 | 30 - 130 | 130 - 216 | 216 - 287 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 4600 | 736 | 3140 | 5.06 U | 2460 | 8920 | 1650 | 6.93 | 935 | 2450 | 5540 | 874 | 80.5 | 4.78 U |
| PCB183 | 52663-69-1 | pg/g | 1820 | 314 | 1160 | 5.06 U | 949 | 3190 | 822 | 4.86 U | 371 | 1020 | 2310 | 306 | 33.5 | 4.78 U |
| PCB184 | 74472-48-3 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 5.51 | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 5.14 | 4.95 U | 4.92 U | 4.78 U |
| PCB185 | 52712-05-7 | pg/g | 323 | 62.1 | 252 | 5.06 U | 178 | 536 | 131 | 4.86 U | 75 | 207 | 475 | 57.7 | 6.47 | 4.78 U |
| PCB186 | 74472-49-4 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 7.64 | 7.66 | 4.95 U | 4.92 U | 4.78 U |
| PCB188 | 74487-85-7 | pg/g | 15.2 J | 5 U | 13.2 J | 5.06 U | 5.2 | 21.8 | 4.88 U | 4.86 U | 5.03 U | 5.6 | 5.65 | 4.95 U | 4.92 U | 4.78 U |
| PCB189 | 39635-31-9 | pg/g | 99.3 | 14.9 | 59.6 | 0.202 U | 52 | 191 | 38.2 | 0.784 U | 21 | 52.5 | 111 | 16.6 | 1.75 J | 0.237 U |
| PCB190 | 41411-64-7 | pg/g | 535 | 82.7 | 361 | 5.06 U | 287 | 1000 | 228 | 4.86 U | 114 | 295 | 699 | 96.1 | 10.3 | 4.78 U |
| PCB191 | 74472-50-7 | pg/g | 102 | 16.2 | 60.5 | 5.06 U | 56.4 | 193 | 43.3 | 4.86 U | 21.6 | 64.6 | 139 | 18 | 4.92 U | 4.78 U |
| PCB192 | 74472-51-8 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 5.01 U | 4.94 U | 4.95 U | 4.92 U | 4.78 U |
| PCB193 | 69782-91-8 | pg/g | 370 | 52.1 | 263 | 5.06 U | 185 | 714 | 125 | 4.86 U | 72.3 | 186 | 414 | 70 | 6.41 | 4.78 U |
| PCB194 | 35694-08-7 | pg/g | 1420 | 265 | 1130 | 5.06 U | 871 | 4220 | 640 | 4.86 U | 321 | 827 | 1860 | 268 | 23 | 4.78 U |
| PCB195 | 52663-78-2 | pg/g | 579 | 126 | 466 | 5.06 U | 373 | 1920 | 270 | 4.86 U | 187 | 425 | 1050 | 127 | 9.62 | 4.78 U |
| PCB196 & 203 | PCB196_203 | pg/g | 1990 | 391 | 1370 | 5.06 U | 1240 | 5320 | 998 | 4.86 U | 484 | 1290 | 2750 | 380 | 32.7 | 4.78 U |
| PCB197 | 33091-17-7 | pg/g | 67.2 | 12.6 | 43.4 J | 5.06 U | 37.2 | 188 | 27.7 | 4.86 U | 14.7 | 44.3 | 88.7 | 12.6 | 4.92 U | 4.78 U |
| PCB198 | 68194-17-2 | pg/g | 114 | 23.3 | 74 | 5.06 U | 66.3 | 359 | 50.7 | 4.86 U | 28.7 | 67.6 | 148 | 20.3 | 4.92 U | 4.78 U |
| PCB199 | 52663-75-9 | pg/g | 1960 | 403 | 1260 | 5.06 U | 1200 | 4700 | 1000 | 4.86 U | 456 | 1180 | 2560 | 368 | 31.3 | 4.78 U |
| PCB200 | 52663-73-7 | pg/g | 256 | 47.9 | 180 | 5.06 U | 148 | 585 | 101 | 4.86 U | 59.8 | 168 | 352 | 48.4 | 4.92 U | 4.78 U |
| PCB201 | 40186-71-8 | pg/g | 225 | 47.8 | 168 | 5.06 U | 135 | 589 | 102 | 4.86 U | 54.5 | 145 | 302 | 45.9 | 4.92 U | 4.78 U |
| PCB202 | 2136-99-4 | pg/g | 318 | 87.9 | 257 | 5.06 U | 207 | 721 | 218 | 4.86 U | 88.7 | 215 | 448 | 71 | 6.26 | 4.78 U |
| PCB204 | 74472-52-9 | pg/g | 24.8 U | 5 U | 51.6 U | 5.06 U | 5 U | 4.89 U | 4.88 U | 4.86 U | 5.03 U | 8.74 | 9.59 | 4.95 U | 4.92 U | 4.78 U |
| PCB205 | 74472-53-0 | pg/g | 60.3 | 11 | 53.9 | 5.06 U | 37.9 | 197 | 26.6 | 4.86 U | 17.9 | 46.5 | 87.2 | 12.6 | 4.92 U | 4.78 U |
| PCB206 | 40186-72-9 | pg/g | 639 | 376 | 468 | 5.06 U | 410 | 1270 | 1250 | 6.9 | 199 | 549 | 990 | 147 | 11.5 | 4.78 U |
| PCB207 | 52663-79-3 | pg/g | 79.9 | 33.9 | 59.4 | 5.06 U | 54.4 | 185 | 111 | 4.86 U | 30.8 | 99.6 | 166 | 18.5 | 4.92 U | 4.78 U |
| PCB208 | 52663-77-1 | pg/g | 190 | 141 | 143 | 5.06 U | 112 | 282 | 512 | 4.86 U | 59.6 | 145 | 247 | 43.9 | 4.92 U | 4.78 U |
| PCB209 | 2051-24-3 | pg/g | 1050 | 407 | 359 | 5.06 U | 255 | 888 | 1980 | 16.1 | 227 | 715 | 1160 | 142 | 25.9 | 4.78 U |
| Total PCB Congeners | 1336-36-3 | pg/g | 154000 JT | 25400 JT | 109000 JT | 31.9 JT | 98800 T | 220000 T | 39900 JT | 156 T | 35300 T | 112000 T | 274000 T | 30000 JT | 4460 JT | 1.38 JT |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 2.82 T | 0.378 JT | 1.46 JT | 0.00017 JT | 1.95 T | 2.84 T | 0.432 JT | 0.00018 T | 1.08 T | 3.08 T | 5.71 T | 0.674 JT | 0.00674 JT | 0.00014 JT |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 267 T | 35.3 T | 70.2 JT | 5.06 UT | 93.2 T | 139 T | 21.3 T | 21.8 T | 74.9 T | 186 T | 198 T | 73.3 T | 4.92 UT | 4.78 UT |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 747 JT | 84.5 T | 697 JT | 10.1 UT | 909 T | 769 T | 9.77 UT | 9.71 UT | 716 T | 1750 T | 2680 T | 476 T | 45.2 T | 9.56 UT |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 7880 T | 2570 T | 6850 JT | 5.06 UT | 6010 T | 9220 T | 132 T | 4.86 UT | 2270 T | 10900 T | 30800 T | 1400 T | 543 T | 4.78 UT |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 24500 JT | 4410 T | 21600 JT | 5.06 UT | 19300 T | 25900 T | 936 T | 22 T | 5950 T | 24200 T | 70200 T | 4670 JT | 1190 T | 1.38 JT |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 39000 T | 5150 JT | 27200 JT | 10.5 JT | 28000 T | 43800 T | 5810 JT | 30 T | 9410 T | 29900 T | 70100 T | 8650 T | 1090 T | 4.78 UT |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 45600 JT | 6420 T | 28700 JT | 21.4 JT | 25100 T | 69500 T | 14900 T | 35.7 T | 9110 T | 24100 T | 54300 T | 8300 T | 983 JT | 4.78 UT |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 27000 JT | 4350 T | 18300 JT | 5.06 UT | 14300 T | 49200 T | 10800 T | 23.1 T | 5510 T | 14500 T | 33300 T | 4730 T | 466 JT | 4.78 UT |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 6990 T | 1420 T | 5000 JT | 5.06 UT | 4320 T | 18800 T | 3430 T | 4.86 UT | 1710 T | 4420 T | 9660 T | 1350 T | 103 T | 4.78 UT |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 909 T | 551 T | 670 T | 5.06 UT | 576 T | 1740 T | 1870 T | 6.9 T | 289 T | 794 T | 1400 T | 209 T | 11.5 T | 4.78 UT |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 19 | 13 | 7.4 J | 0.16 U | 2.6 NJ | 16 J | 0.67 U | 0.16 U | 17 | 17 | 15 | 1.3 NJ | 0.16 U | 0.16 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 7.2 J | 1.8 U | 1.3 U | 0.089 J | 8.2 NJ | 7.8 | 0.18 U | 0.17 U | 2 U | 3.9 NJ | 3.3 J | 0.23 U | 0.048 U | 0.046 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 17 | 3.7 U | 5.7 J | 0.061 U | 5.3 | 0.86 U | 0.59 U | 0.1 J | 110 | 7.6 U | 7.7 U | 0.74 U | 0.13 | 0.061 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 28 | 19 | 7.6 | 0.073 U | 6.9 | 37 | 1.2 J | 0.073 U | 74 | 51 | 39 | 1.8 | 0.32 NJ | 0.073 U |
| 4,4'-DDE | 72-55-9 | ug/kg | 34 NJ | 3.9 U | 7.5 NJ | 0.027 U | 8.6 NJ | 35 NJ | 1.5 NJ | 0.2 U | 20 | 20 J | 16 NJ | 3.1 | 0.29 NJ | 0.027 U |
| 4,4'-DDT | 50-29-3 | ug/kg | 69 | 11 | 8.1 NJ | 0.18 U | 6.8 U | 13 J | 1.6 | 0.18 U | 3200 | 150 | 360 J | 0.99 U | 0.18 U | 0.18 U |
| Aldrin | 309-00-2 | ug/kg | 0.6 U | 0.6 U | 0.6 U | 0.12 U | 0.63 U | 0.6 U | 0.12 U | 0.24 J | 1.2 U | 0.6 U | 1.7 NJ | 0.51 NJ | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.19 U | 0.19 U | 0.82 U | 0.037 U | 0.2 U | 2.4 U | 0.037 U | 0.037 U | 0.37 U | 0.92 U | 0.6 NJ | 0.18 J | 0.037 U | 0.037 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.49 U | 0.49 U | 0.49 U | 0.097 U | 0.51 U | 0.49 U | 0.097 U | 0.2 U | 0.97 U | 1.1 U | 0.49 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.91 U | 0.16 U | 0.88 U | 0.031 U | 0.53 U | 0.86 U | 0.41 NJ | 0.59 NJ | 0.31 U | 0.92 U | 2.7 U | 0.28 NJ | 0.031 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.7 U | 0.7 U | 0.7 U | 0.14 U | 0.73 U | 1.2 U | 0.14 U | 0.17 U | 1.4 U | 0.7 U | 0.7 U | 0.19 U | 0.14 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.16 U | 0.16 U | 0.16 U | 0.031 U | 0.17 U | 0.16 U | 0.031 U | 0.031 U | 0.31 U | 0.34 U | 0.55 J | 0.23 U | 0.031 U | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 12 U | 1.7 U | 1.7 U | 0.087 U | 4.4 U | 7.5 U | 1.6 U | 0.087 U | 2 U | 3 U | 2.2 U | 0.6 U | 0.11 U | 0.087 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.55 U | 0.55 U | 0.55 U | 0.11 U | 1.1 U | 0.55 U | 0.16 U | 0.11 U | 1.1 U | 0.55 U | 0.56 U | 0.11 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.91 U | 0.84 U | 0.15 U | 0.03 U | 0.84 J | 0.86 U | 0.19 U | 0.45 U | 0.64 U | 0.92 U | 0.94 NJ | 0.47 | 0.03 U | 0.03 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.32 U | 0.29 U | 0.88 U | 0.058 U | 0.31 U | 0.36 J | 0.18 U | 0.44 NJ | 0.58 U | 0.29 U | 0.97 U | 0.23 U | 0.058 U | 0.058 U |
| Endrin | 72-20-8 | ug/kg | 0.36 U | 0.36 U | 0.36 U | 0.071 U | 0.37 U | 0.86 U | 0.46 NJ | 0.22 NJ | 0.74 U | 5.3 J | 3.4 U | 0.071 U | 0.071 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 2.7 U | 0.21 U | 2.6 U | 0.042 U | 1.5 U | 2.7 U | 0.24 U | 0.042 U | 0.42 U | 3.4 NJ | 3.2 J | 0.19 U | 0.042 U | 0.042 U |
| Endrin ketone | 53494-70-5 | ug/kg | 2.8 U | 0.57 U | 1.1 U | 0.029 U | 3.9 NJ | 2 U | 1.7 NJ | 0.029 U | 1.5 U | 2.3 U | 1.7 U | 0.21 U | 0.033 U | 0.029 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 4.8 U | 1.3 U | 0.88 U | 0.062 U | 0.66 NJ | 1.2 U | 0.8 U | 0.71 U | 3.9 U | 0.92 U | 6.4 U | 0.12 U | 0.062 U | 0.062 U |
| Heptachlor | 76-44-8 | ug/kg | 1.2 U | 0.38 U | 0.38 U | 0.076 U | 0.4 U | 0.71 U | 0.18 U | 0.19 NJ | 0.76 U | 0.68 U | 0.38 U | 0.076 U | 0.076 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 1.5 U | 0.74 J | 1.9 | 0.08 U | 6.7 U | 1.3 U | 0.18 U | 0.18 U | 0.68 U | 1.9 NJ | 2.6 J | 0.19 U | 0.068 U | 0.068 U |
| Methoxychlor | 72-43-5 | ug/kg | 2.3 U | 0.84 U | 1.2 U | 0.075 U | 0.72 U | 0.92 U | 0.77 NJ | 0.075 U | 2 U | 0.38 U | 0.38 U | 0.3 U | 0.075 U | 0.075 U |
| Mirex | 2385-85-5 | ug/kg | 0.6 U | 0.6 U | 0.6 U | 0.12 U | 0.63 U | 0.6 U | 0.12 U | 0.12 U | 1.2 U | 0.6 U | 0.6 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 1.1 U | 0.69 U | 0.7 U | 0.2 J | 1.1 U | 2.1 | 0.18 U | 0.13 U | 0.61 U | 0.31 U | 0.73 U | 0.17 U | 0.07 U | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 3.2 JT | 1.7 UT | 1.7 UT | 0.2 JT | 4.4 UT | 6.2 JT | 0.15 JT | 0.17 UT | 2 UT | 3 UT | 0.55 JT | 1 JT | 0.11 UT | 0.087 UT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C665-C | LW3-C665-D | LW3-C676-B | LW3-C676-C | LW3-C678-B | LW3-C678-C | LW3-C678-D | LW3-C678-E | LW3-C679-B | LW3-C679-C | LW3-C679-D | LW3-C686-B | LW3-C686-C | LW3-C686-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 152 - 275 | 275 - 366 | 30 - 62 | 62 - 182 | 30 - 134 | 134 - 245 | 245 - 348 | 348 - 395 | 30 - 151 | 151 - 273 | 273 - 317 | 30 - 130 | 130 - 216 | 216 - 287 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.91 UT | 0.29 UT | 0.88 UT | 0.058 UT | 0.53 UT | 0.36 JT | 0.41 JT | 1 JT | 0.58 UT | 0.92 UT | 0.6 JT | 0.46 JT | 0.058 UT | 0.058 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 47 T | 32 T | 15 JT | 0.16 UT | 9.5 JT | 53 JT | 1.2 JT | 0.16 UT | 91 T | 68 T | 54 T | 3.1 JT | 0.32 JT | 0.16 UT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 170 JT | 43 T | 36 JT | 0.089 JT | 32 JT | 110 JT | 4.3 JT | 0.1 JT | 3400 T | 240 JT | 430 JT | 6.2 JT | 0.74 JT | 0.18 UT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 41 JT | 3.9 UT | 7.5 JT | 0.089 JT | 17 JT | 43 JT | 1.5 JT | 0.2 UT | 20 T | 24 JT | 19 JT | 3.1 T | 0.29 JT | 0.046 UT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 86 T | 11 T | 14 JT | 0.18 UT | 5.3 T | 13 JT | 1.6 T | 0.1 JT | 3300 T | 150 T | 360 JT | 0.99 UT | 0.13 T | 0.18 UT |
| Toxaphene | 8001-35-2 | ug/kg | 200 U | 63 U | 61 U | 3.4 U | 89 U | 84 U | 54 U | 8.5 U | 82 U | 170 U | 300 U | 30 U | 3.4 U | 3.4 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 3.2 NJ | 1.2 U | 1.2 U | 0.027 U | 2.5 U | 0.14 U | 0.51 U | 0.027 U | 2 U | 1.2 U | 1.8 U | 0.73 | 0.027 U | 0.027 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 1.1 U | 0.17 U | 0.73 U | 0.034 U | 0.56 U | 4.1 J | 0.15 J | 0.17 U | 2 U | 0.92 U | 0.97 U | 0.27 J | 0.034 U | 0.034 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 780 J | 400 J | 330 J | 2 J | 600 J | 1100 J | 710 J | 420 J | 280 J | 240 J | 390 J | 190 J | 7.35 JT | 1.9 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 650 J | 350 J | 230 J | 1.5 U | 480 J | 960 J | 640 J | 370 J | 240 J | 200 J | 350 J | 170 J | 6.6 JT | 1.4 U |
| Residual Range Hydrocarbons | RRH | mg/kg | 910 J | 900 J | 590 J | 22 U | 890 J | 1400 J | 1400 J | 1100 J | 910 J | 620 J | 1000 J | 660 J | 28.5 JT | 18 U |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 710 J | 660 J | 370 J | 9.8 U | 660 J | 1100 J | 1100 J | 790 J | 590 J | 380 J | 730 J | 480 J | 21.5 JT | 3.4 U |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 1690 JA | 1300 JA | 920 JA | 2 JA | 1490 JA | 2500 JA | 2110 JA | 1520 JA | 1190 JA | 860 JA | 1390 JA | 850 JA | 35.9 JA | 1.9 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 1360 JA | 1010 JA | 600 JA | 9.8 UA | 1140 JA | 2060 JA | 1740 JA | 1160 JA | 830 JA | 580 JA | 1080 JA | 650 JA | 28.1 JA | 3.4 UA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.39 U | 0.35 U | 0.63 U | 0.26 U | 3.5 J | 0.35 U | 0.35 U | 0.34 U | 2.8 U | 3.6 U | 9.9 U | 0.39 U | 0.24 U | 0.23 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.51 U | 0.28 U | 0.29 U | 0.21 U | 7 J | 1.7 J | 0.64 J | 0.28 U | 0.34 U | 4.2 U | 0.33 U | 0.32 U | 0.2 U | 0.19 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 9.1 U | 3.1 U | 4.6 U | 6 U | 4.5 U | 3.1 U | 3.1 U | 5.9 U | 5.1 U | 4.9 J | 1.1 U | 5.2 U | 5.7 U | 5.5 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 1.3 U | 0.19 U | 0.27 U | 0.14 U | 0.22 U | 1.1 J | 0.19 U | 0.18 U | 0.25 U | 0.2 U | 1.2 J | 0.21 U | 0.13 U | 0.12 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 50 U | 50 U | 10 U | 1 U | 11 U | 20 U | 20 U | 1 U | 5 U | 5 U | 10 U | 1 U | 1 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 280 U | 280 U | R | R | R | R | R | R | 28 U | 28 U | 55 U | R | R | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 850 U | 850 U | 170 U | 17 U | 180 U | 340 U | 340 U | 17 U | 85 U | 85 U | 170 UJ | 17 U | 17 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 100 U | 100 U | 20 U | 2 U | 21 U | 40 U | 40 U | 2 U | 10 U | 10 U | 20 U | 2 U | 2 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 75 U | 75 U | 15 U | 1.5 U | 16 U | 30 U | 30 U | 1.5 U | 7.5 U | 7.5 U | 15 U | 1.5 U | 1.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 75 U | 75 U | 15 U | 1.5 U | 16 U | 30 U | 30 U | 1.5 U | 7.5 U | 7.5 U | 15 U | 1.5 U | 1.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 70 U | 70 U | 14 U | 1.4 U | 15 U | 28 U | 28 U | 1.4 U | 7 U | 7 U | 14 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 70 U | 70 U | 14 U | 1.4 U | 15 U | 28 U | 28 U | 1.4 U | 7 U | 7 U | 14 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 75 U | 190 J | 44 J | 1.5 U | 16 U | 30 U | 30 U | 96 | 9.8 J | 7.5 U | 15 U | 3.1 J | 5.8 J | 1.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 900 U | 900 U | 180 U | 18 U | 190 U | 360 U | 360 U | 18 U | 90 U | 90 U | 180 U | 18 U | 18 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 4.4 J | 0.27 U | 2.4 J | 0.2 U | 110 | 30 | 2.1 J | 0.32 J | 9.8 U | 8.7 U | 9.7 NJ | 5.2 NJ | 0.18 U | 0.18 U |
| Phenol | 108-95-2 | ug/kg | 100 U | 100 U | 20 U | 4.6 U | 21 U | 40 U | 40 U | 2 U | 10 U | 10 U | 20 U | 2 U | 16 U | 2 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 350 U | 350 U | 70 U | 7 U | 160 J | 140 U | 140 U | 7 U | 150 | 130 | 85 J | 160 | 15 J | 7 U |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 160 U | 160 U | 32 U | 3.2 U | 33 U | 64 U | 64 U | 3.2 U | 16 U | 16 U | 32 U | 8.2 U | 3.2 U | 3.2 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 400 U | 400 U | 79 U | 7.9 U | 81 U | 160 U | 160 U | 9.1 | 40 U | 40 U | 79 U | 12 | 7.9 U | 7.9 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 65 U | 65 U | 13 U | 1.3 U | 14 U | 26 U | 26 U | 6 U | 6.5 U | 6.5 U | 13 U | 4 U | 1.3 U | 1.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 50 U | 50 U | 10 U | 1 U | 11 U | 20 U | 20 U | 1 U | 5 U | 5 U | 10 U | 1 J | 1 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 85 U | 85 U | 17 U | 1.7 U | 18 U | 34 U | 34 U | 1.7 U | 8.5 U | 8.5 U | 17 U | 1.7 U | 1.7 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 130 U | 130 U | 26 U | 2.6 U | 27 U | 52 U | 52 U | 2.6 U | 13 U | 13 U | 26 U | 2.6 U | 2.6 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 150 U | 150 U | 29 U | 2.9 U | 30 U | 58 U | 58 U | 2.9 U | 15 U | 15 U | 29 U | 2.9 U | 2.9 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 150 U | 150 U | 30 U | 3 U | 31 U | 60 U | 60 U | 3 U | 15 U | 15 U | 30 U | 3 U | 3 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 150 U | 150 U | 29 U | 2.9 U | 30 U | 58 U | 58 U | 2.9 U | 15 U | 15 U | 29 U | 2.9 U | 2.9 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 75 U | 75 U | 15 U | 1.5 U | 16 U | 30 U | 30 U | 1.5 U | 7.5 U | 7.5 U | 15 U | 1.5 U | 1.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 100 U | 100 U | 20 U | 2 U | 21 U | 40 U | 40 U | 2 U | 10 U | 10 U | 20 U | 2 U | 2 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 80 U | 80 U | 16 U | 1.6 U | 17 U | 32 U | 32 U | 1.6 U | 8 U | 8 U | 16 U | 1.6 U | 1.6 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 160 U | 160 U | 32 U | 3.2 U | 33 U | 64 U | 64 U | 3.2 U | 16 U | 16 U | 32 U | 3.2 U | 3.2 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 190 U | 190 U | 37 U | 3.7 U | 38 U | 74 U | 74 U | 3.7 U | 19 U | 19 U | 37 U | 3.7 U | 3.7 U | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 130 U | 130 U | 25 U | 2.5 U | 26 U | 50 U | 50 U | 2.5 U | 13 U | 13 U | 25 U | 2.5 U | 2.5 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 80 U | 80 U | 16 U | 1.6 U | 17 U | 32 U | 32 U | 1.6 U | 8 U | 8 U | 16 U | 1.6 U | 1.6 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 95 U | 95 U | 19 U | 1.9 U | 20 U | 38 U | 38 U | 1.9 U | 9.5 U | 9.5 U | 19 U | 1.9 U | 1.9 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 70 U | 70 U | 14 U | 1.4 U | 15 U | 28 U | 28 U | 1.4 U | 7 U | 7 U | 14 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 90 U | 90 U | 18 U | 1.8 U | 19 U | 36 U | 36 U | 1.8 U | 9 U | 9 U | 18 U | 1.8 U | 1.8 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 75 U | 75 U | R | R | 16 U | 30 U | 30 U | 1.5 U | 7.5 U | 7.5 U | 15 U | 1.5 U | 1.5 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 55 U | 55 U | 11 U | 1.1 U | 12 U | 22 U | 22 U | 1.1 U | 5.5 U | 5.5 U | 11 U | 1.1 U | 1.1 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | R | R | 960 U | 96 U | 990 U | 2000 U | 2000 U | 96 U | 480 U | 480 U | 960 U | 96 U | 96 U | 96 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 110 U | 110 U | 21 U | 2.1 U | 22 U | 42 U | 42 U | 2.1 U | 11 U | 11 U | 21 U | 3.8 J | 2.1 U | 2.1 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 75 U | 75 U | 15 U | 1.5 U | 16 U | 30 U | 30 U | 1.5 U | 7.5 U | 7.5 U | 15 U | 1.5 U | 1.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 95 U | 95 U | 19 U | 1.9 U | 20 U | 38 U | 38 U | 1.9 U | 9.5 U | 9.5 U | 19 U | 1.9 U | 1.9 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 130 UJ | 130 UJ | 26 U | 2.6 U | 27 U | 52 U | 52 U | 2.6 U | 13 U | 13 U | 26 U | 2.6 U | 2.6 U | 2.6 U |
| Carbazole | 86-74-8 | ug/kg | 290 J | 65 U | 31 J | 1.3 U | 14 U | 28 J | 26 U | 1.3 U | 6.5 U | 6.5 U | 13 U | 1.3 U | 3.9 J | 1.3 U |
| Dibenzofuran | 132-64-9 | ug/kg | 3400 | 82 | 64 | 0.59 U | 40 | 1800 | 24 | 15 | 6.2 | 6.6 | 6.6 | 3.7 | 0.59 U | 0.59 U |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.82 J | 0.34 U | 12 U | 0.068 U | 0.81 UJ | 0.72 J | 24 U | 0.068 UJ | 1.5 J | 2.5 | 2.8 J | 0.19 UJ | 0.068 UJ | 0.068 UJ |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C665-C | LW3-C665-D | LW3-C676-B | LW3-C676-C | LW3-C678-B | LW3-C678-C | LW3-C678-D | LW3-C678-E | LW3-C679-B | LW3-C679-C | LW3-C679-D | LW3-C686-B | LW3-C686-C | LW3-C686-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 152 - 275 | 275 - 366 | 30 - 62 | 62 - 182 | 30 - 134 | 134 - 245 | 245 - 348 | 348 - 395 | 30 - 151 | 151 - 273 | 273 - 317 | 30 - 130 | 130 - 216 | 216 - 287 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.7 U | 0.7 U | 0.7 U | 0.14 U | 0.73 U | 0.7 U | 0.23 U | 0.14 U | 1.4 U | 3.2 | 1.8 | 0.41 | 0.14 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 1500 U | 1500 U | 290 U | 29 U | 300 U | 580 U | 580 U | 29 U | 150 U | 150 U | 290 U | 29 U | 29 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.8 U | 0.8 U | 0.8 U | 0.16 U | 0.83 U | 0.8 U | 0.22 U | 0.16 U | 4.6 | 8.8 | 6.5 | 0.16 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 50 U | 50 U | 10 U | 1 U | 11 U | 20 U | 20 U | 1 U | 5 U | 5 U | 10 U | 1 U | 1 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 110 U | 110 U | 22 U | 2.2 U | 23 U | 44 U | 44 U | 2.2 U | 11 U | 11 U | 22 U | 2.2 U | 2.2 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 310 U | 310 U | 61 U | 6.1 U | 63 U | 130 U | 130 U | 6.1 U | 31 U | 31 U | 61 U | 6.1 U | 6.1 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 80 U | 80 U | 16 U | 1.6 U | 17 U | 32 U | 32 U | 1.6 U | 8 U | 8 U | 16 U | 1.6 U | 1.6 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 120 U | 120 U | 24 U | 2.4 U | 25 U | 48 U | 48 U | 2.4 U | 12 U | 12 U | 24 U | 2.4 U | 2.4 U | 2.4 U |

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Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C688-B | LW3-C688-C | LW3-C688-D | LW3-C688-F | LW3-C690-B | LW3-C690-C | LW3-C690-D | LW3-C690-E | LW3-C695-B | LW3-C695-D | LW3-C695-E | LW3-C698-B | LW3-C701-B | LW3-C701-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 114 | 114 - 221 | 221 - 281 | 404 - 457 | 30 - 151 | 151 - 274 | 274 - 346 | 346 - 471 | 30 - 95 | 221 - 343 | 343 - 384 | 30 - 152 | 30 - 148 | 194 - 286 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 0.73 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 13 U | 13 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 0.73 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 13 U | 13 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 0.73 U | 0.73 U | 3.7 U | 6.3 U | 0.73 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 13 U | 13 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.7 U | 3.7 U | 48 J | 3.7 U | 1.3 U | 6.5 J | 48 | 130 | 25 J | 390 J | 600 | 12 J | 27 | 25 J |
| Aroclor 1248 | 12672-29-6 | ug/kg | 0.73 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 13 U | 13 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 1.5 U | 5.4 U | 52 | 18 NJ | 6 J | 12 | 79 | 120 | 29 | 220 J | 280 | 22 | 50 J | 48 J |
| Aroclor 1260 | 11096-82-5 | ug/kg | 2.6 | 9.1 | 34 | 15 | 4.1 | 10 J | 45 | 72 | 15 J | 100 | 13 U | 18 J | 38 J | 50 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 0.73 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 13 U | 13 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 0.73 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 13 U | 13 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 2.6 T | 9.1 T | 134 JT | 33 JT | 10.1 JT | 28.5 JT | 172 T | 322 T | 69 JT | 710 JT | 880 T | 52 JT | 115 JT | 123 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.47 | 1.63 | 1.57 | 1.76 | 1.47 | 1.51 | 1.64 | 1.66 | 1.61 | 1.57 | 1.64 | 1.53 | 1.52 | 1.5 |
| Total organic carbon | TOC | percent | 2.14 | 2.01 | 1.54 | 2.08 | 1.82 | 2.24 | 2.12 | 2.49 | 1.37 | 1.93 | 2.18 | 1.94 | 1.74 | 5.31 |
| Total solids | TSO | percent | 50 | 53.3 | 58.1 | 62.4 | 54.6 | 55.1 | 58.7 | 60.5 | 57.9 | 62 | 60.7 | 53.4 | 53.1 | 52.6 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.81 | 0.683 | 1.79 | 9.97 | 0.209 J | 1.09 | 3.59 | 11.9 | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 1.81 J | 1.04 J | 2.98 | 17.8 | 0.152 J | 3.17 | 7.57 | 58.6 | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 14.1 | 13 | 30.1 | 48.1 | 3.19 | 27.7 | 42.3 | 318 | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 86.2 | 72 | 256 | 240 | 30.4 | 160 | 276 | 698 | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 413 | 402 | 1750 | 1600 | 102 | 636 | 1470 | 3620 J | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 3.47 | 4.15 | 11.8 | 60.6 | 4.76 | 10.9 | 37.5 | 74.5 | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 6.04 | 8.92 | 27.8 | 177 | 3.78 | 15.2 | 83.8 | 175 | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 13.6 | 16.7 | 35.4 | 126 | 3.57 | 17.3 | 118 | 264 | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 25.7 | 26.1 | 99.9 | 329 | 6.25 | 37.8 | 145 | 445 | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 33.2 | 27.9 | 127 | 224 | 6.67 | 38.7 | 140 | 351 | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | 598 JT | 572 JT | 2340 T | 2830 T | 161 JT | 948 T | 2320 T | 6020 JT | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.155 U | 0.0754 U | 0.355 J | 0.594 | 0.00801 U | 0.174 J | 0.441 J | 1.17 | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.273 J | 0.211 J | 0.576 J | 1.22 J | 0.0146 U | 0.412 J | 0.809 J | 7.41 | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.469 J | 0.242 J | 0.748 J | 0.706 J | 0.0281 U | 0.538 J | 1.08 J | 3.6 | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 2.01 J | 2.11 J | 5.41 | 6.36 | 0.344 J | 3.98 | 6.63 | 43.4 | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 1.3 J | 0.995 J | 2.33 J | 2.58 J | 0.244 J | 1.97 J | 3.32 | 25.4 | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 40.5 | 35.2 | 129 | 104 | 10.2 | 65 | 135 | 336 | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.723 | 1.47 | 2.67 | 4.5 | 1.68 | 3.27 | 12.8 | 19.9 | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.642 J | 1.86 J | 5.19 | 10.3 | 0.611 J | 2.99 J | 23.6 | 30.5 | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.35 J | 0.758 J | 2.08 J | 5.72 | 0.647 J | 1.34 J | 9.61 | 12.8 | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 2.86 J | 5.36 | 12.6 | 25 | 0.66 J | 5.56 | 42.7 | 56.5 | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.856 J | 1.45 J | 3.34 | 10.8 | 0.209 J | 1.66 J | 13.3 | 21.7 | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0537 U | 0.041 U | 0.144 J | 0.272 J | 0.0252 U | 0.0745 U | 0.499 J | 0.732 J | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.551 J | 0.625 J | 1.82 J | 9.2 | 0.178 J | 0.954 J | 4.42 | 10.3 | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 7.59 | 8.05 | 26.6 | 143 | 1.62 J | 10.9 | 45.2 | 173 | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.739 J | 1.44 J | 3.64 | 5.88 | 0.31 J | 1.54 J | 8.87 | 14.1 | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 1.9 JT | 2.3 JT | 6.77 JT | 12.9 JT | 0.698 JT | 3.85 JT | 15.7 JT | 37.9 JT | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 2.33 JT | 3.94 JT | 10.4 JT | 13.7 JT | 1.23 JT | 5.17 JT | 19.5 JT | 45.3 JT | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.11 | 0.02 | 0.04 | 0.18 | 0.04 | 0 |
| Fine gravel | GS_FG | percent | 1.13 | 1.03 | 1.94 | 5.73 | 1.01 | 0.73 | 1.67 | 5.41 | 0.78 | 1.04 | 0.38 | 0.59 | 0.41 | 0.97 |
| Very coarse sand | GS_VCS | percent | 1.99 | 2.25 | 1.61 | 3.02 | 1.33 | 1.24 | 1.52 | 4.17 | 0.56 | 2.5 | 0.81 | 0.65 | 0.92 | 1.08 |
| Coarse sand | GS_CS | percent | 0.97 | 1.48 | 4.16 | 1.6 | 0.91 | 1.18 | 0.88 | 2.58 | 1.31 | 1.85 | 1.67 | 1.17 | 0.47 | 1.13 |
| Medium sand | GS_MS | percent | 0.77 | 2.25 | 27.9 | 6.94 | 1.07 | 1.32 | 3.16 | 6.27 | 13.9 | 8.69 | 4.48 | 2.62 | 0.67 | 1.93 |
| Fine sand | GS_FS | percent | 2.48 | 2.5 | 7.43 | 6.98 | 2.45 | 2.38 | 4.44 | 5.88 | 19.9 | 8.11 | 2.59 | 2.8 | 2.66 | 4.52 |
| Very fine sand | GS_VFS | percent | 9.99 | 6.09 | 4.44 | 9.09 | 13.3 | 7.52 | 7.22 | 7.88 | 20.5 | 14.2 | 8.58 | 11.7 | 8.99 | 24.8 |
| Fines | GS_FINES | percent | 79.1 T | 89.4 T | 57.5 T | 65.3 T | 77.8 T | 88.8 T | 82.1 T | 62.5 T | 55.9 T | 77.1 T | 82.4 T | 85.8 T | 83.5 T | 79.9 T |
| Coarse silt | GS_CSILT | percent | 19.5 | 10.1 | 7.98 | 11.4 | 38 | 24.6 | 16.6 | 11.6 | 4.48 | 16.7 | 23.7 | 24.2 | 22.6 | 41 |
| Medium silt | GS_MSILT | percent | 22.1 | 23.7 | 15.4 | 16.6 | 18.6 | 41.9 | 29.7 | 18.1 | 3.25 | 21.3 | 19.5 | 20.5 | 21 | 19.6 |
| Fine silt | GS_FSILT | percent | 12.1 | 19 | 11 | 11.4 | 7.82 | 12.5 | 16.8 | 12.5 | 0 | 16.7 | 15.6 | 15.5 | 15.7 | 9.58 |
| Very fine silt | GS_VFSILT | percent | 6.35 | 9.59 | 7.46 | 7.8 | 4.38 | 5.02 | 8.44 | 9.52 | 16.4 | 10.6 | 10 | 12.2 | 8.99 | 2.93 |
| 8-9 Phi clay | GS_CCLAY | percent | 5.45 | 6.36 | 4.21 | 4.12 | 3.09 | 1.75 | 4.2 | 4.4 | 11.3 | 4.83 | 5.52 | 2.34 | 4.97 | 3.44 |
| >9 Phi clay | GS_MFCLAY | percent | 13.6 | 20.6 | 11.4 | 14 | 5.88 | 3.05 | 6.38 | 6.35 | 20.5 | 6.99 | 8.07 | 11.1 | 10.2 | 3.3 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 25100 | 30700 | 24400 | 25200 | 18300 | 28200 | 27400 | 25000 | 21700 | 21300 | 23900 | 28600 | 30000 | 26500 |
| Antimony | 7440-36-0 | mg/kg | 0.21 J | 0.27 J | 0.28 J | 0.25 J | 0.18 J | 0.21 J | 0.23 J | 0.29 J | 0.28 J | 0.33 J | 0.36 J | 0.33 J | 0.39 J | 0.38 J |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C688-B | LW3-C688-C | LW3-C688-D | LW3-C688-F | LW3-C690-B | LW3-C690-C | LW3-C690-D | LW3-C690-E | LW3-C695-B | LW3-C695-D | LW3-C695-E | LW3-C698-B | LW3-C701-B | LW3-C701-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 114 | 114 - 221 | 221 - 281 | 404 - 457 | 30 - 151 | 151 - 274 | 274 - 346 | 346 - 471 | 30 - 95 | 221 - 343 | 343 - 384 | 30 - 152 | 30 - 148 | 194 - 286 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 3.52 | 3.85 | 3.79 | 3.91 | 2.95 | 3.95 | 4.04 | 3.83 | 5.5 | 5.21 | 4.06 | 3.68 | 3.11 | 3.09 |
| Cadmium | 7440-43-9 | mg/kg | 0.179 | 0.288 | 0.245 | 0.534 | 0.18 | 0.282 | 0.491 | 0.497 | 0.355 | 0.401 | 0.398 | 0.277 | 0.822 | 1.06 |
| Chromium | 7440-47-3 | mg/kg | 20.5 | 25.6 | 23.8 | 22.4 | 17.2 | 24.5 | 28.8 | 25.5 | 33.5 | 27.1 | 30.5 | 27 | 30.1 | 25.7 |
| Copper | 7440-50-8 | mg/kg | 32.8 | 39.4 | 33.5 | 39.3 | 25.6 | 38.9 | 39.8 | 41.6 | 64.3 J | 40.8 J | 49.6 J | 44.8 J | 59.4 | 40.6 |
| Lead | 7439-92-1 | mg/kg | 14.2 | 22.5 | 25.5 | 29.6 | 17.4 | 22.3 | 43.2 | 43.6 | 29.5 J | 37.2 J | 40.3 J | 20.8 J | 59 | 31 |
| Mercury | 7439-97-6 | mg/kg | 0.057 | 0.107 | 0.085 | 0.286 | 0.052 | 0.09 | 0.158 | 0.349 | 0.089 | 0.172 | 0.209 | 0.102 | 0.142 J | 0.412 J |
| Nickel | 7440-02-0 | mg/kg | 19.8 | 22.9 | 22.2 | 21.9 | 15.8 | 21.5 | 23.3 | 22.5 | 32 J | 24.5 J | 27.5 J | 23.9 J | 26.7 | 27.4 |
| Silver | 7440-22-4 | mg/kg | 0.28 | 0.44 | 0.36 | 0.65 | 0.21 | 0.42 | 0.42 | 0.58 | 0.26 | 0.3 | 0.32 | 0.32 | 0.41 | 0.52 |
| Zinc | 7440-66-6 | mg/kg | 88.2 | 155 | 152 | 154 | 88 | 136 | 228 | 222 | 122 J | 175 J | 167 J | 116 J | 301 | 138 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.4 J | 3.2 | 11 | 320 | 1.9 J | 4.4 | 230 | 1500 | 15 | 230 | 420 | 3.3 | 4.4 | 77 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 1.7 J | 4.6 | 10 | 390 | 2.8 | 7.3 | 24 | 93 | 23 | 34 | 80 | 6 | 7.1 | 130 |
| Acenaphthene | 83-32-9 | ug/kg | 2.4 J | 4.1 | 12 | 69 | 7.4 | 19 | 93 | 300 | 30 | 94 | 94 | 5.2 | 6.3 | 80 |
| Acenaphthylene | 208-96-8 | ug/kg | 2.3 J | 2.3 J | 4.7 | 27 | 3.1 | 8.1 | 18 J | 64 | 14 | 20 | 23 | 4 | 5.1 | 58 |
| Anthracene | 120-12-7 | ug/kg | 3.3 | 2.8 | 8.1 | 36 | 9.9 | 13 | 33 | 180 | 26 | 96 | 46 | 4.9 | 8.4 | 68 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 16 | 14 | 31 | 120 | 34 | 45 | 90 | 300 | 100 | 160 | 88 | 19 | 33 | 99 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 20 | 17 | 33 | 110 | 31 | 49 | 98 | 250 | 97 | 140 | 76 | 21 | 36 | 110 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 26 | 25 | 42 | 120 | 49 | 73 | 110 | 250 | 120 | 160 | 88 | 29 | 53 | 120 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | | | | | 29 | 44 | 150 | 220 | 72 | 97 | 65 | 17 | | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 17 | 14 | 25 | 120 | 26 | 42 | 96 | 180 | 71 | 94 | 70 | 21 | 30 | 95 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 7.7 | 7.8 | 14 | 34 | 17 | 24 | 28 | 70 | 41 | 54 | 26 | 9 | 20 | 34 |
| Chrysene | 218-01-9 | ug/kg | 22 | 21 | 42 | 150 | 54 | 68 | 100 | 450 | 120 | 200 | 130 | 25 | 55 | 130 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 2.6 | 2.5 | 4.7 | 15 J | 4.3 | 7.4 | 22 | 36 | 14 | 22 | 13 | 3.3 | 4.9 | 13 |
| Dibenzothiophene | 132-65-0 | ug/kg | 1.4 J | 2.7 | 18 | 57 | 4.1 | 9.1 | 86 | 320 | 22 | 110 | 150 | 2.7 | 3.6 | 35 |
| Fluoranthene | 206-44-0 | ug/kg | 42 | 41 | 86 | 320 | 98 | 160 | 240 | 640 | 260 | 460 | 290 | 52 | 85 | 460 |
| Fluorene | 86-73-7 | ug/kg | 2.4 J | 5 | 20 | 82 | 10 | 18 | 120 | 620 | 35 | 150 | 190 | 6.1 | 7.2 | 77 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 17 | 15 | 24 | 92 | 26 | 43 | 78 | 150 | 78 | 92 | 57 | 21 | 32 | 89 |
| Naphthalene | 91-20-3 | ug/kg | 5.1 U | 10 | 16 | 95 | 7 | 24 | 33 | 87 | 50 | 39 | 67 | 16 | 18 | 280 |
| Perylene | 198-55-0 | ug/kg | | | | | 46 | 61 | 70 | 130 | 56 | 89 | 65 | 51 | | |
| Phenanthrene | 85-01-8 | ug/kg | 19 | 27 | 81 | 430 | 69 | 100 | 460 | 1800 | 180 | 710 | 810 | 39 | 46 | 470 |
| Pyrene | 129-00-0 | ug/kg | 44 | 36 | 89 | 460 | 91 | 150 | 310 | 1100 | 250 | 480 | 380 | 52 | 81 | 440 |
| High Molecular Weight PAH | HPAH | ug/kg | 210 T | 190 T | 390 T | 1500 JT | 430 T | 660 T | 1200 T | 3400 T | 1200 T | 1900 T | 1200 T | 250 T | 430 T | 1600 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 31 JT | 56 JT | 150 T | 1100 T | 110 T | 190 T | 780 JT | 3100 T | 360 T | 1100 T | 1300 T | 81 T | 98 T | 1200 T |
| Total PAHs | 130498-29-2 | ug/kg | 250 JT | 250 JT | 540 T | 2700 JT | 540 T | 850 T | 2000 JT | 6600 T | 1500 T | 3000 T | 2500 T | 330 T | 530 T | 2800 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | | | | | 12 | 100 | 870 | 3600 | 240 | 1300 J | 1700 J | 17 | | |
| C1-Chrysene | C1_218-01-9 | ug/kg | | | | | 30 | 65 | 410 | 1400 | 140 | 420 | 280 | 26 | | |
| C1-Fluorene | C1_86-73-7 | ug/kg | | | | | 5.9 | 27 | 370 | 1500 | 75 | 560 | 890 J | 6.1 | | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | | | | | 52 | 87 | 580 | 3300 | 210 | 530 | 500 | 30 | | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | | | | | 28 | 87 | 1100 | 5500 | 220 | 1700 J | 2300 J | 26 | | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | | | | | 11 | 77 | 690 | 3000 | 210 | 1100 J | 1400 J | 19 | | |
| C2-Chrysene | C2_218-01-9 | ug/kg | | | | | 23 | 59 | 780 | 2100 | 140 | 600 | 350 | 29 | | |
| C2-Fluorene | C2_86-73-7 | ug/kg | | | | | 14 | 89 | 910 | 4100 | 230 | 1500 J | 1900 J | 15 | | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | | | | | 7.2 | 33 | 1400 | 8500 J | 150 | 2100 J | 2900 J | 15 | | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | | | | | 33 | 130 | 1400 | 6400 | 260 | 1900 J | 2200 J | 39 | | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | | | | | 12 | 89 | 620 | 2100 | 150 | 830 J | 810 | 21 | | |
| C3-Chrysene | C3_218-01-9 | ug/kg | | | | | 20 | 54 | 980 | 1700 | 130 | 510 | 290 | 22 | | |
| C3-Fluorene | C3_86-73-7 | ug/kg | | | | | 20 | 120 | 1400 | 4900 | 360 | 2400 J | 2300 J | 28 | | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | | | | | 9.6 | 150 | 2400 | 12000 J | 430 | 4500 J | 5500 J | 23 | | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | | | | | 29 | 170 | 1500 | 5900 | 340 | 1900 J | 1700 J | 48 | | |
| C4-Chrysene | C4_218-01-9 | ug/kg | | | | | 15 | 36 | 640 | 1000 | 90 | 290 | 170 | 0.25 U | | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | | | | | 19 | 240 | 2600 | 11000 J | 590 | 4400 J | 5400 J | 32 | | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | | | | | 15 | 88 | 1200 | 4700 | 160 | 1200 J | 660 | 21 | | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | | | | | 30 | 67 | 800 | 2500 | 160 | 570 | 470 | 24 | | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | | | | | 24 | 60 | 960 | 2600 | 150 | 660 | 460 | 21 | | |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 5.33 | 65.4 | 212 | 25.4 U | 6.4 | 19.7 | 109 | 139 | | | | | | |
| PCB002 | 2051-61-8 | pg/g | 5.01 | 15.9 J | 23.2 J | 8.85 J | 19.8 | 32.5 | 28.1 | 34.2 | | | | | | |
| PCB003 | 2051-62-9 | pg/g | 5.68 | 65.4 | 154 | 9.36 J | 7.35 | 28.2 | 126 | 129 | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | 14.1 | 99.8 | 517 | 50.9 U | 19.6 | 43.1 | 387 | 1090 | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | 42.3 | 448 | 2240 | 26.9 J | 58.2 | 176 | 1970 | 5300 | | | | | | |
| PCB006 | 25569-80-6 | pg/g | 10.4 | 90.5 | 377 | 50.9 U | 12.6 | 38.6 | 418 | 907 | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | 9.91 U | 49.5 J | 162 | 50.9 U | 10 U | 15 | 161 | 307 | | | | | | |
| PCB011 | 2050-67-1 | pg/g | 85.8 | 146 | 28.8 J | 50.9 U | 118 | 325 | 67.4 | 49.9 UJ | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | 9.91 U | 42.9 J | 94.3 | 50.9 U | 10 U | 23.2 | 216 | 188 | | | | | | |
| PCB014 | 34883-41-5 | pg/g | 9.91 U | 49.9 U | 50.1 U | 50.9 U | 10 U | 9.99 U | 9.99 U | 49.2 U | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C688-B | LW3-C688-C | LW3-C688-D | LW3-C688-F | LW3-C690-B | LW3-C690-C | LW3-C690-D | LW3-C690-E | LW3-C695-B | LW3-C695-D | LW3-C695-E | LW3-C698-B | LW3-C701-B | LW3-C701-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 114 | 114 - 221 | 221 - 281 | 404 - 457 | 30 - 151 | 151 - 274 | 274 - 346 | 346 - 471 | 30 - 95 | 221 - 343 | 343 - 384 | 30 - 152 | 30 - 148 | 194 - 286 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | 42.5 | 267 | 802 | 50.9 U | 63.6 | 198 | 1120 | 1790 | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | 76.2 | 602 | 3300 | 37 | 87.5 | 261 | 2890 | 9770 | | | | | | |
| PCB017 | 37680-66-3 | pg/g | 50.1 | 413 | 2290 | 22.1 J | 61 | 193 | 2100 | 7110 | | | | | | |
| PCB018 | 37680-65-2 | pg/g | 96.4 | 1010 | 5790 | 61 | 131 | 394 | 4980 | 17600 | | | | | | |
| PCB019 | 38444-73-4 | pg/g | 17.2 | 75.4 | 413 | 25.4 U | 23.1 | 38.7 | 338 | 1180 | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 93.8 | 771 | 4520 | 61.3 | 123 | 380 | 4210 | 10700 | | | | | | |
| PCB022 | 38444-85-8 | pg/g | 58.7 | 467 | 2570 | 34.9 | 76.6 | 219 | 2360 | 5170 | | | | | | |
| PCB023 | 55720-44-0 | pg/g | 4.96 U | 25 U | 8.61 J | 25.4 U | 5.01 U | 4.99 U | 9.93 | 26.6 | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | 11.9 | 62.9 | 332 | 25.4 U | 12.1 | 33 | 301 | 991 | | | | | | |
| PCB025 | 55712-37-3 | pg/g | 20.3 | 115 | 560 | 8.49 J | 24.3 | 86.4 | 1140 | 1630 | | | | | | |
| PCB026 | 38444-81-4 | pg/g | 31.7 | 194 | 993 | 15.8 J | 37.6 | 130 | 1600 | 2940 | | | | | | |
| PCB028 | 7012-37-5 | pg/g | 197 | 1510 | 7290 | 114 | 269 | 921 | 7780 | 16900 | | | | | | |
| PCB029 | 15862-07-4 | pg/g | 4.96 U | 8.08 J | 37 | 25.4 U | 5.01 U | 4.99 U | 16.8 | 49.9 | | | | | | |
| PCB030 | 35693-92-6 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB031 | 16606-02-3 | pg/g | 161 | 1280 | 6450 | 93.7 | 203 | 605 | 6420 | 18800 | | | | | | |
| PCB034 | 37680-68-5 | pg/g | 4.96 U | 12.1 J | 47.9 | 25.4 U | 5.01 U | 8.7 | 88.5 | 217 | | | | | | |
| PCB035 | 37680-69-6 | pg/g | 5.81 | 29.5 | 84.3 | 25.4 U | 6.4 | 20.2 | 88.7 | 170 | | | | | | |
| PCB036 | 38444-87-0 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB037 | 38444-90-5 | pg/g | 65.4 | 431 | 1800 | 32 | 102 | 267 | 1540 | 4160 | | | | | | |
| PCB038 | 53555-66-1 | pg/g | 4.96 U | 10.8 J | 35.2 | 25.4 U | 5.01 U | 7.47 | 46.2 | 268 | | | | | | |
| PCB039 | 38444-88-1 | pg/g | 4.96 U | 6.76 J | 12.2 J | 25.4 U | 5.01 U | 4.99 U | 15.5 | 38.6 | | | | | | |
| PCB040 | 38444-93-8 | pg/g | 37.1 | 205 | 965 | 29.9 | 51.2 | 151 | 969 | 2850 | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 201 | 1260 | 5650 | 193 | 267 | 786 | 5210 | 14100 | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | 75.2 | 554 | 2390 | 55.7 | 101 | 298 | 2130 | 5140 | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | 241 | 1580 | 6260 | 302 | 303 | 955 | 6160 | 13200 | | | | | | |
| PCB044 | 41464-39-5 | pg/g | 245 | 1850 | 8030 | 362 | 318 | 936 | 7560 | 15900 | | | | | | |
| PCB045 | 70362-45-7 | pg/g | 30.1 | 272 | 1340 | 20.5 J | 41.8 | 123 | 1190 | 2740 | | | | | | |
| PCB046 | 41464-47-5 | pg/g | 13.6 | 121 | 557 | 8.47 J | 19.5 | 57.9 | 533 | 1130 | | | | | | |
| PCB047 | 2437-79-8 | pg/g | 97.9 | 508 | 1970 | 69.3 | 114 | 335 | 1720 | 4480 | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | 47 | 406 | 1930 | 38.2 | 60.8 | 190 | 1570 | 3760 | | | | | | |
| PCB050 | 62796-65-0 | pg/g | 4.96 U | 7.4 J | 27 | 25.4 U | 5.01 U | 4.99 U | 24.3 | 71.6 | | | | | | |
| PCB051 | 68194-04-7 | pg/g | 22.2 | 91.7 | 397 | 8.19 J | 24.3 | 70.2 | 370 | 804 | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | 312 | 2130 | 8510 | 657 | 379 | 1220 | 7790 | 16000 | | | | | | |
| PCB053 | 41464-41-9 | pg/g | 42.9 | 265 | 1230 | 24.6 J | 54.7 | 170 | 1120 | 2570 | | | | | | |
| PCB054 | 15968-05-5 | pg/g | 4.96 U | 5.74 J | 17.2 J | 25.4 U | 5.01 U | 5.53 | 17 | 43.9 | | | | | | |
| PCB055 | 74338-24-2 | pg/g | 4.96 U | 24.1 J | 105 | 7.46 J | 5.01 U | 13.2 | 81.2 | 182 | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | 136 | 1160 | 5140 | 178 | 203 | 522 | 4080 | 9630 | | | | | | |
| PCB057 | 70424-67-8 | pg/g | 4.96 U | 11 J | 43.3 | 25.4 U | 5.01 U | 7.36 | 46.9 | 96.6 | | | | | | |
| PCB058 | 41464-49-7 | pg/g | 4.96 U | 10.8 J | 22.4 J | 25.4 U | 5.01 U | 8.37 | 28.7 | 44.9 | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | 335 | 2450 | 9490 | 671 | 449 | 1310 | 8550 | 19600 | | | | | | |
| PCB062 | 54230-22-7 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB063 | 74472-34-7 | pg/g | 13.1 | 88.1 | 332 | 16.9 J | 15.5 | 43.1 | 316 | 728 | | | | | | |
| PCB065 | 33284-54-7 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | 270 | 1900 | 7310 | 337 | 393 | 1110 | 6790 | 15400 | | | | | | |
| PCB067 | 73575-53-8 | pg/g | 8.02 | 59.7 | 267 | 10.8 J | 11.5 | 31.4 | 256 | 598 | | | | | | |
| PCB068 | 73575-52-7 | pg/g | 5.23 | 14.4 J | 30.1 | 5.63 J | 5.71 | 15.6 | 36.1 | 78.8 | | | | | | |
| PCB073 | 74338-23-1 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB074 | 32690-93-0 | pg/g | 119 | 967 | 4050 | 174 | 155 | 488 | 3520 | 8440 | | | | | | |
| PCB077 | 32598-13-3 | pg/g | 29.7 | 167 | 606 | 23.3 J | 44 | 115 | 558 | 1390 | | | | | | |
| PCB078 | 70362-49-1 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB079 | 41464-48-6 | pg/g | 6.89 | 31.2 | 72.9 | 18 J | 8.7 | 24.5 | 79.2 | 182 | | | | | | |
| PCB080 | 33284-52-5 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB081 | 70362-50-4 | pg/g | 1.11 U | 3.79 U | 16.5 U | 2.79 U | 1.68 U | 3.53 U | 9.69 | 36.6 | | | | | | |
| PCB082 | 52663-62-4 | pg/g | 58.6 | 362 | 1160 | 167 | 77.3 | 218 | 1030 | 2270 | | | | | | |
| PCB083 | 60145-20-2 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | 230 | 1300 | 3520 | 740 | 269 | 868 | 3690 | 5840 | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | 85.1 | 484 | 1410 | 232 | 101 | 296 | 1250 | 2650 | | | | | | |
| PCB086 | 55312-69-1 | pg/g | 4.96 U | 22.9 J | 88.4 | 25.4 U | 5.01 U | 10.7 | 41.1 | 157 | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 168 | 977 | 2780 | 578 | 194 | 584 | 2580 | 4650 | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | 83.8 | 435 | 1280 | 194 | 103 | 329 | 1200 | 2320 | | | | | | |
| PCB089 | 73575-57-2 | pg/g | 6.78 | 45.9 | 169 | 13.1 J | 8.19 | 23.4 | 149 | 348 | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | 574 | 3140 | 8360 | 2170 | 640 | 2070 | 7770 | 13300 | | | | | | |
| PCB093 | 73575-56-1 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB094 | 73575-55-0 | pg/g | 4.96 U | 19.2 J | 52.7 | 5.79 J | 5.01 U | 13.3 | 46.6 | 112 | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 422 | 2310 | 6770 | 1470 | 479 | 1600 | 6300 | 10900 | | | | | | |
| PCB096 | 73575-54-9 | pg/g | 5.51 | 22 J | 85 | 7.51 J | 6.36 | 20.4 | 70.1 | 206 | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C688-B | LW3-C688-C | LW3-C688-D | LW3-C688-F | LW3-C690-B | LW3-C690-C | LW3-C690-D | LW3-C690-E | LW3-C695-B | LW3-C695-D | LW3-C695-E | LW3-C698-B | LW3-C701-B | LW3-C701-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 114 | 114 - 221 | 221 - 281 | 404 - 457 | 30 - 151 | 151 - 274 | 274 - 346 | 346 - 471 | 30 - 95 | 221 - 343 | 343 - 384 | 30 - 152 | 30 - 148 | 194 - 286 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | 151 | 882 | 2450 | 446 | 173 | 545 | 2320 | 4310 | | | | | | |
| PCB099 | 38380-01-7 | pg/g | 278 | 1430 | 3700 | 772 | 314 | 933 | 3600 | 5850 | | | | | | |
| PCB100 | 39485-83-1 | pg/g | 7.37 | 17.5 J | 30.8 | 5.47 J | 8.41 | 24.3 | 30.8 | 59.1 | | | | | | |
| PCB103 | 60145-21-3 | pg/g | 11.8 | 45.3 | 93.6 | 24.6 J | 13.6 | 49.9 | 98.8 | 152 | | | | | | |
| PCB104 | 56558-16-8 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB105 | 32598-14-4 | pg/g | 154 | 821 | 2360 | 457 | 184 | 480 | 2070 | 3510 | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | 492 | 2420 | 6280 | 1480 | 550 | 1570 | 5760 | 10100 | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | 45.8 | 217 | 517 | 126 | 49.2 | 143 | 487 | 885 | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | 27.5 | 148 | 395 | 69.6 | 30.9 | 94.7 | 381 | 709 | | | | | | |
| PCB110 | 38380-03-9 | pg/g | 639 | 3340 | 8670 | 1990 | 744 | 2290 | 8250 | 14200 | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | 8.88 | 46.7 | 167 | 23 J | 9.6 | 22.2 | 108 | 258 | | | | | | |
| PCB113 | 68194-10-5 | pg/g | 4.96 U | 25 U | 18.6 J | 5.9 J | 5.01 U | 9.35 | 39 | 139 | | | | | | |
| PCB114 | 74472-37-0 | pg/g | 8.62 | 52.9 | 171 | 27.4 | 9.35 | 27.6 | 136 | 294 | | | | | | |
| PCB119 | 56558-17-9 | pg/g | 21.4 | 93.4 | 198 | 44.3 | 22.7 | 72.9 | 183 | 327 | | | | | | |
| PCB120 | 68194-12-7 | pg/g | 4.96 U | 13.2 J | 24.9 J | 10.2 J | 5.01 U | 14.5 | 49.8 | 24.6 U | | | | | | |
| PCB121 | 56558-18-0 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB122 | 76842-07-4 | pg/g | 5.79 | 28.6 | 91.7 | 13.8 J | 6.72 | 16.7 | 83.2 | 140 | | | | | | |
| PCB123 | 65510-44-3 | pg/g | 9.29 | 42.4 | 117 | 21.3 J | 10.5 | 22.7 | 92 | 183 | | | | | | |
| PCB124 | 70424-70-3 | pg/g | 18.7 | 104 | 265 | 57.9 | 23.1 | 56.1 | 217 | 385 | | | | | | |
| PCB126 | 57465-28-8 | pg/g | 4.08 J | 15.1 J | 32.4 | 7.99 J | 5.05 | 12.4 | 35.1 | 67.7 | | | | | | |
| PCB127 | 39635-33-1 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | 98.9 | 425 | 892 | 319 | 117 | 323 | 944 | 1260 | | | | | | |
| PCB129 | 55215-18-4 | pg/g | 26 | 130 | 281 | 85.9 | 29.6 | 88.2 | 279 | 391 | | | | | | |
| PCB130 | 52663-66-8 | pg/g | 41.9 | 205 | 444 | 157 | 56.7 | 172 | 507 | 678 | | | | | | |
| PCB131 | 61798-70-7 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | 194 | 926 | 2230 | 776 | 236 | 696 | 2160 | 3290 | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | 25 | 109 | 221 | 81.5 | 28.1 | 84.5 | 231 | 329 | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | 34.7 | 173 | 424 | 133 | 41 | 125 | 401 | 562 | | | | | | |
| PCB135 | 52744-13-5 | pg/g | 101 | 508 | 1120 | 417 | 121 | 391 | 1130 | 1930 | | | | | | |
| PCB136 | 38411-22-2 | pg/g | 93.6 | 471 | 1200 | 434 | 112 | 360 | 1140 | 1860 | | | | | | |
| PCB137 | 35694-06-5 | pg/g | 27.7 | 127 | 249 | 88.1 | 32.9 | 81.7 | 254 | 352 | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 717 | 3120 | 7490 | 2880 | 863 | 2420 | 7260 | 11300 | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | 579 | 2880 | 6720 | 2560 | 701 | 2300 | 6800 | 11800 | | | | | | |
| PCB140 | 59291-64-4 | pg/g | 9.61 | 36.6 | 66.4 | 19.9 J | 8.26 | 26.5 | 44.3 | 89.8 | | | | | | |
| PCB141 | 52712-04-6 | pg/g | 123 | 579 | 1620 | 616 | 152 | 433 | 1480 | 2600 | | | | | | |
| PCB144 | 68194-14-9 | pg/g | 32.7 | 154 | 435 | 176 | 31.7 | 108 | 416 | 633 | | | | | | |
| PCB145 | 74472-40-5 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | 137 | 600 | 1290 | 494 | 166 | 478 | 1260 | 1930 | | | | | | |
| PCB147 | 68194-13-8 | pg/g | 17.7 | 72.5 | 121 | 34.9 | 19.9 | 60.2 | 126 | 167 | | | | | | |
| PCB148 | 74472-41-6 | pg/g | 4.96 U | 12.1 J | 13.5 J | 6.95 J | 5.01 U | 10.7 | 17.6 | 21.5 J | | | | | | |
| PCB150 | 68194-08-1 | pg/g | 4.96 U | 9.49 J | 11.4 J | 25.4 U | 5.01 U | 10.5 | 12 | 17.5 J | | | | | | |
| PCB151 | 52663-63-5 | pg/g | 178 | 869 | 2240 | 861 | 209 | 665 | 2090 | 3810 | | | | | | |
| PCB152 | 68194-09-2 | pg/g | 4.96 U | 25 U | 6.86 J | 25.4 U | 5.01 U | 4.99 U | 6.58 | 6.92 J | | | | | | |
| PCB153 | 35065-27-1 | pg/g | 718 | 3150 | 8120 | 3280 | 871 | 2510 | 7430 | 12500 | | | | | | |
| PCB154 | 60145-22-4 | pg/g | 19.6 | 75.6 | 118 | 52.8 | 21.3 | 75.6 | 125 | 223 | | | | | | |
| PCB155 | 33979-03-2 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB156 | 38380-08-4 | pg/g | 60.1 | 274 | 639 | 233 | 67.2 | 197 | 616 | 965 | | | | | | |
| PCB157 | 69782-90-7 | pg/g | 13.4 | 55.6 | 114 | 39.6 | 14.9 | 37.5 | 116 | 164 | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | 70.3 | 335 | 799 | 293 | 81.2 | 223 | 696 | 1110 | | | | | | |
| PCB159 | 39635-35-3 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB166 | 41411-63-6 | pg/g | 4.96 U | 12.8 J | 25.4 | 7.79 J | 5.01 U | 8.11 | 26.2 | 26.6 | | | | | | |
| PCB167 | 52663-72-6 | pg/g | 26.1 | 111 | 239 | 88.2 | 32.2 | 85 | 243 | 356 | | | | | | |
| PCB168 | 59291-65-5 | pg/g | 4.96 U | 8.06 J | 18.6 J | 25.4 U | 5.01 U | 4.99 U | 10.7 | 13.9 J | | | | | | |
| PCB169 | 32774-16-6 | pg/g | 0.984 U | 3.3 U | 8.01 U | 5.96 U | 0.915 U | 2.69 U | 3.59 U | 9.34 U | | | | | | |
| PCB170 | 35065-30-6 | pg/g | 193 | 857 | 2430 | 962 | 262 | 708 | 2160 | 3960 | | | | | | |
| PCB171 | 52663-71-5 | pg/g | 55.1 | 253 | 686 | 283 | 76.2 | 203 | 651 | 1120 | | | | | | |
| PCB172 | 52663-74-8 | pg/g | 37.1 | 165 | 418 | 175 | 48 | 128 | 404 | 680 | | | | | | |
| PCB173 | 68194-16-1 | pg/g | 6.03 | 24.3 J | 66.2 | 26.3 | 7.25 | 18.1 | 64.2 | 108 | | | | | | |
| PCB174 | 38411-25-5 | pg/g | 248 | 1170 | 3190 | 1310 | 343 | 916 | 2970 | 5180 | | | | | | |
| PCB175 | 40186-70-7 | pg/g | 10.4 | 47.2 | 130 | 56.5 | 14.8 | 46.9 | 127 | 236 | | | | | | |
| PCB176 | 52663-65-7 | pg/g | 30.9 | 153 | 410 | 172 | 40.5 | 120 | 383 | 724 | | | | | | |
| PCB177 | 52663-70-4 | pg/g | 149 | 650 | 1730 | 672 | 191 | 507 | 1570 | 2740 | | | | | | |
| PCB178 | 52663-67-9 | pg/g | 56.6 | 238 | 585 | 254 | 70.5 | 198 | 559 | 1020 | | | | | | |
| PCB179 | 52663-64-6 | pg/g | 117 | 529 | 1390 | 619 | 150 | 421 | 1290 | 2460 | | | | | | |
| PCB180 | 35065-29-3 | pg/g | 516 | 2270 | 6340 | 2770 | 693 | 1870 | 5770 | 10900 | | | | | | |
| PCB181 | 74472-47-2 | pg/g | 4.96 U | 13.3 J | 17.6 J | 9.87 J | 5.01 U | 7.34 | 36.8 | 55.9 | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C688-B | LW3-C688-C | LW3-C688-D | LW3-C688-F | LW3-C690-B | LW3-C690-C | LW3-C690-D | LW3-C690-E | LW3-C695-B | LW3-C695-D | LW3-C695-E | LW3-C698-B | LW3-C701-B | LW3-C701-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 114 | 114 - 221 | 221 - 281 | 404 - 457 | 30 - 151 | 151 - 274 | 274 - 346 | 346 - 471 | 30 - 95 | 221 - 343 | 343 - 384 | 30 - 152 | 30 - 148 | 194 - 286 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 339 | 1430 | 3650 | 1750 | 431 | 1200 | 3480 | 6570 | | | | | | |
| PCB183 | 52663-69-1 | pg/g | 127 | 587 | 1600 | 767 | 169 | 492 | 1530 | 2930 | | | | | | |
| PCB184 | 74472-48-3 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB185 | 52712-05-7 | pg/g | 28.2 | 137 | 355 | 152 | 37.6 | 94.8 | 339 | 591 | | | | | | |
| PCB186 | 74472-49-4 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB188 | 74487-85-7 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 5.24 J | | | | | | |
| PCB189 | 39635-31-9 | pg/g | 7.8 | 36.5 | 86 | 36.1 | 9.71 | 26.3 | 76.8 | 148 | | | | | | |
| PCB190 | 41411-64-7 | pg/g | 44 | 194 | 538 | 204 | 56.7 | 146 | 466 | 865 | | | | | | |
| PCB191 | 74472-50-7 | pg/g | 8.51 | 38.7 | 107 | 42.2 | 11.3 | 30.1 | 96.7 | 170 | | | | | | |
| PCB192 | 74472-51-8 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB193 | 69782-91-8 | pg/g | 28.3 | 116 | 307 | 122 | 35.5 | 93 | 291 | 496 | | | | | | |
| PCB194 | 35694-08-7 | pg/g | 127 | 534 | 1360 | 760 | 171 | 427 | 1300 | 2390 | | | | | | |
| PCB195 | 52663-78-2 | pg/g | 52.5 | 224 | 627 | 293 | 68.9 | 190 | 658 | 1080 | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | 155 | 699 | 1630 | 1230 | 234 | 602 | 1570 | 3650 | | | | | | |
| PCB197 | 33091-17-7 | pg/g | 4.96 U | 24.2 J | 56.9 | 32.4 | 6.58 | 18.1 | 57.3 | 117 | | | | | | |
| PCB198 | 68194-17-2 | pg/g | 7.49 | 34.2 | 79.7 | 57.6 | 11.6 | 34.6 | 79.5 | 163 | | | | | | |
| PCB199 | 52663-75-9 | pg/g | 155 | 645 | 1510 | 1390 | 240 | 607 | 1550 | 3590 | | | | | | |
| PCB200 | 52663-73-7 | pg/g | 19.6 | 92.4 | 215 | 137 | 28.5 | 72.9 | 221 | 458 | | | | | | |
| PCB201 | 40186-71-8 | pg/g | 19.2 | 86.2 | 193 | 146 | 26.5 | 65.8 | 204 | 394 | | | | | | |
| PCB202 | 2136-99-4 | pg/g | 33.2 | 128 | 267 | 307 | 45.4 | 113 | 300 | 634 | | | | | | |
| PCB204 | 74472-52-9 | pg/g | 4.96 U | 25 U | 25.1 U | 25.4 U | 5.01 U | 4.99 U | 5 U | 24.6 U | | | | | | |
| PCB205 | 74472-53-0 | pg/g | 5.48 | 25.2 | 60.9 | 29.9 | 7.31 | 18.6 | 57.2 | 104 | | | | | | |
| PCB206 | 40186-72-9 | pg/g | 80.6 | 267 | 493 | 3220 | 164 | 355 | 701 | 2150 | | | | | | |
| PCB207 | 52663-79-3 | pg/g | 10.3 | 35.4 | 64.1 | 233 | 18.6 | 39 | 90.2 | 208 | | | | | | |
| PCB208 | 52663-77-1 | pg/g | 25.2 | 69.9 | 124 | 1280 | 56.4 | 116 | 190 | 732 | | | | | | |
| PCB209 | 2051-24-3 | pg/g | 92.5 | 197 | 347 | 5110 | 130 | 251 | 643 | 3030 | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | 13000 JT | 70700 JT | 227000 JT | 53600 JT | 16400 T | 48000 T | 215000 T | 449000 JT | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 0.434 JT | 1.64 JT | 3.6 T | 0.873 JT | 0.536 T | 1.32 T | 3.84 T | 7.39 T | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 16 T | 147 JT | 389 JT | 18.2 JT | 33.6 T | 80.4 T | 263 T | 302 T | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 195 T | 1140 JT | 4220 JT | 26.9 JT | 272 T | 819 T | 4340 T | 9580 T | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 886 T | 7000 JT | 36500 JT | 480 JT | 1160 T | 3560 T | 35900 T | 97700 T | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 2290 T | 16100 JT | 66700 JT | 3210 JT | 3020 T | 8990 T | 60700 T | 139000 T | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 3520 JT | 18800 JT | 51300 JT | 11200 JT | 4030 T | 12400 T | 48100 T | 84300 T | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 3340 T | 15400 JT | 37100 JT | 14100 JT | 4010 T | 12000 T | 35800 T | 58400 JT | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 2000 T | 8910 JT | 24000 JT | 10400 JT | 2650 T | 7230 T | 22300 T | 41000 JT | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 574 T | 2490 JT | 6000 T | 4380 T | 840 T | 2150 T | 6000 T | 12600 T | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 116 T | 372 T | 681 T | 4730 T | 239 T | 510 T | 981 T | 3090 T | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.46 NJ | 2.2 | 79 | 19 | 2.8 J | 4.8 J | 16 J | 27 NJ | 2.5 NJ | 5.9 U | 3.2 U | 1.1 NJ | 1.1 U | 7.2 J |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.2 U | 0.54 U | 73 | 2 U | 0.37 U | 1.1 U | 4.5 J | 11 | 0.23 U | 2.8 U | 3 U | 0.43 U | 0.78 U | 1.3 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.49 | 1.9 | 320 | 3.4 U | 0.89 J | 1.7 J | 6.3 U | 1.7 U | 1.4 | 12 | 17 NJ | 1.1 | 3.1 | 3.1 J |
| 4,4'-DDD | 72-54-8 | ug/kg | 2.1 | 3.1 U | 120 J | 27 | 7.5 J | 20 | 25 | 37 | 4.8 | 13 | 12 | 2.6 | 2.4 | 21 |
| 4,4'-DDE | 72-55-9 | ug/kg | 2.3 J | 3.7 | 380 | 7.9 U | 4.4 J | 10 J | 27 NJ | 12 U | 4.2 J | 18 NJ | 20 NJ | 3.5 J | 4.4 J | 21 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 9.7 | 20 | 350 | 28 | 2.5 | 27 | 7.4 | 9.9 J | 14 | 9.2 | 10 | 1.9 J | 4 U | 3.6 U |
| Aldrin | 309-00-2 | ug/kg | 0.27 | 0.6 U | 0.6 U | 0.6 U | 0.12 U | 0.12 U | 0.6 U | 3.6 U | 0.12 U | 0.87 U | 0.84 U | 0.12 U | 0.12 U | 0.8 J |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.12 J | 0.19 U | 5.3 | 0.56 U | 0.14 J | 0.037 U | 0.28 U | 0.37 U | 0.21 U | 0.81 U | 0.83 U | 0.18 U | 0.19 U | 0.25 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.49 U | 0.49 U | 0.49 U | 0.097 U | 0.19 U | 0.86 U | 0.97 U | 0.21 U | 4.4 U | 0.49 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.16 U | 0.86 U | 0.8 U | 0.094 U | 0.25 J | 0.86 U | 1.7 U | 0.18 U | 1.2 U | 0.16 U | 0.13 U | 0.35 U | 0.77 NJ |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.19 U | 0.7 U | 0.7 U | 0.8 U | 0.14 U | 0.22 U | 1.6 | 4.6 U | 1.4 U | 2.1 U | 0.7 U | 0.14 U | 0.3 U | 0.35 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.22 J | 0.16 U | 0.89 | 0.16 U | 0.06 NJ | 0.19 U | 0.86 U | 0.31 U | 0.031 U | 0.81 U | 0.83 U | 0.15 U | 0.031 U | 0.5 |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.24 U | 0.92 U | 4 U | 2.3 U | 0.63 U | 1.3 U | 4.4 U | 6.4 U | 0.82 U | 7.8 U | 5.9 U | 0.84 U | 2.3 U | 2.6 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.55 U | 0.55 U | 0.55 U | 0.11 U | 0.11 U | 0.55 U | 1.6 U | 0.16 U | 0.81 U | 0.96 U | 0.11 U | 0.11 U | 0.33 U |
| Dieldrin | 60-57-1 | ug/kg | 0.37 | 0.19 U | 0.15 U | 0.15 U | 0.28 U | 0.34 J | 0.86 U | 1.7 U | 0.33 U | 6.9 NJ | 2.7 U | 0.52 U | 0.47 U | 1.1 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.2 U | 0.29 U | 0.29 U | 0.29 U | 0.47 U | 0.36 U | 0.37 U | 0.58 U | 0.32 U | 0.29 U | 0.29 U | 0.2 U | 0.058 U | 0.41 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.36 U | 0.36 U | 0.36 U | 0.083 U | 0.23 U | 0.54 U | 0.71 U | 0.2 U | 0.36 U | 0.83 U | 0.17 U | 0.36 U | 0.26 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 0.21 U | 0.86 U | 0.8 U | 0.19 U | 0.042 U | 1.1 U | 2.9 U | 0.21 U | 1.4 U | 1.6 U | 0.33 U | 0.19 U | 0.73 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.15 U | 0.39 U | 1.2 U | 0.15 U | 0.23 U | 0.42 U | 1.4 U | 2.1 U | 0.29 U | 1.7 U | 1 U | 0.25 U | 0.52 U | 0.76 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.2 U | 0.31 U | 0.86 U | 0.31 U | 0.2 U | 0.19 U | 1.3 U | 0.62 U | 0.24 U | 5.6 U | 7.9 J | 0.067 U | 0.18 J | 0.23 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.38 U | 0.89 U | 0.38 U | 0.076 U | 0.19 U | 0.74 NJ | 1.7 U | 0.51 J | 1.9 U | 0.97 U | 0.19 U | 0.71 | 0.27 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.2 U | 0.73 J | 2.4 NJ | 0.6 U | 0.19 U | 0.22 U | 4.5 NJ | 5.3 U | 0.48 NJ | 0.81 U | 0.86 U | 0.28 NJ | 0.57 U | 0.53 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.38 U | 0.38 U | 0.38 U | 0.96 U | 0.83 U | 0.41 U | 0.38 U | 4 J | 0.075 U | 0.81 U | 0.38 U | 0.33 U | 0.56 U | 0.52 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.6 U | 0.6 U | 0.6 U | 0.12 U | 0.12 U | 0.6 U | 1.2 U | 0.12 U | 0.6 U | 0.6 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.078 U | 0.31 U | 0.45 J | 0.31 U | 0.061 U | 0.25 | 0.31 U | 0.61 U | 0.16 U | 0.69 J | 0.95 | 0.18 U | 0.24 U | 0.39 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.87 JT | 1.1 JT | 1.3 JT | 2.3 UT | 0.4 JT | 0.95 JT | 4.4 UT | 6.4 UT | 0.82 UT | 0.69 JT | 0.95 T | 1.1 JT | 0.13 JT | 1.7 JT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C688-B | LW3-C688-C | LW3-C688-D | LW3-C688-F | LW3-C690-B | LW3-C690-C | LW3-C690-D | LW3-C690-E | LW3-C695-B | LW3-C695-D | LW3-C695-E | LW3-C698-B | LW3-C701-B | LW3-C701-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 114 | 114 - 221 | 221 - 281 | 404 - 457 | 30 - 151 | 151 - 274 | 274 - 346 | 346 - 471 | 30 - 95 | 221 - 343 | 343 - 384 | 30 - 152 | 30 - 148 | 194 - 286 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.12 JT | 0.29 UT | 5.3 T | 0.8 UT | 0.14 JT | 0.25 JT | 0.86 UT | 1.7 UT | 0.32 UT | 1.2 UT | 0.83 UT | 0.2 UT | 0.35 UT | 0.77 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 2.6 JT | 2.2 T | 200 JT | 46 T | 10 JT | 25 JT | 41 JT | 64 JT | 7.3 JT | 13 T | 12 T | 3.7 JT | 2.4 T | 28 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 15 JT | 28 T | 1300 JT | 74 T | 18 JT | 64 JT | 80 JT | 85 JT | 27 JT | 52 JT | 59 JT | 10 JT | 9.9 JT | 52 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 2.3 JT | 3.7 T | 450 T | 7.9 UT | 4.4 JT | 10 JT | 32 JT | 11 T | 4.2 JT | 18 JT | 20 JT | 3.5 JT | 4.4 JT | 21 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 10 T | 22 T | 670 T | 28 T | 3.4 JT | 29 JT | 7.4 T | 9.9 JT | 15 T | 21 T | 27 JT | 3 JT | 3.1 T | 3.1 JT |
| Toxaphene | 8001-35-2 | ug/kg | 14 U | 24 U | 160 U | 110 U | 15 U | 28 U | 130 U | 260 U | 52 U | 97 U | 120 U | 53 U | 55 U | 120 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.37 J | 1.1 J | 0.14 U | 1.4 U | 0.61 U | 1.1 U | 1.2 U | 1.7 U | 0.68 U | 0.97 U | 1.2 U | 0.91 | 1.4 U | 1.2 NJ |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.28 J | 0.17 U | 4.7 U | 0.8 U | 0.34 NJ | 0.7 NJ | 0.86 U | 0.34 U | 0.23 U | 0.81 U | 0.19 U | 0.21 J | 0.13 J | 0.36 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 56 J | 190 J | 540 J | 850 J | 89.5 JT | 320 J | 1300 J | 3800 J | 720 J | 2900 J | 2700 J | 170 J | 280 J | 520 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 43 J | 170 J | 500 J | 720 J | 68 JT | 290 J | 1200 J | 3200 J | 630 J | 2900 J | 2800 J | 160 J | 250 J | 410 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 290 J | 490 J | 1200 J | 1400 J | 380 JT | 720 J | 1600 J | 3900 J | 730 J | 3800 J | 2600 J | 510 J | 740 J | 1200 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 140 J | 360 J | 1000 J | 980 J | 210 JT | 490 J | 1400 J | 2700 J | 580 J | 3600 J | 2500 J | 380 J | 580 J | 840 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 346 JA | 680 JA | 1740 JA | 2250 JA | 470 JA | 1040 JA | 2900 JA | 7700 JA | 1450 JA | 6700 JA | 5300 JA | 680 JA | 1020 JA | 1720 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 183 JA | 530 JA | 1500 JA | 1700 JA | 278 JA | 780 JA | 2600 JA | 5900 JA | 1210 JA | 6500 JA | 5300 JA | 540 JA | 830 JA | 1250 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.41 U | 0.67 U | 1.4 J | 1.8 U | 0.81 U | 0.37 U | 1.7 U | 1.9 U | 0.36 U | 3.2 U | 0.5 NJ | 0.38 U | 0.39 U | 0.39 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.34 U | 1.1 NJ | 1.4 J | 0.75 NJ | 0.31 U | 1.2 NJ | 0.77 NJ | 0.77 J | 0.29 U | 0.26 U | 0.38 U | 0.42 U | 1.7 NJ | 2.5 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 9.8 U | 3.1 U | 5.9 NJ | 6.2 NJ | 3.6 U | 8.8 U | 8.4 J | 4.3 NJ | 0.94 U | 0.84 U | 0.88 U | 1 U | 5.8 U | 5.4 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.22 U | 0.21 U | 1.4 J | 1.7 J | 0.23 U | 0.41 J | 0.51 J | 0.49 J | 0.33 U | 0.47 J | 0.66 J | 0.32 J | 0.21 U | 3.6 J |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 2 U | 2 U | 20 U | 50 U | 10 U | 20 U | 50 U | 100 U | 10 U | 20 U | 20 U | 1 U | 1 U | 10 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 11 U | 11 U | 110 U | 280 U | 55 U | 110 U | 280 U | 550 U | R | R | R | R | R | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 34 U | 34 U | 340 U | 850 U | 170 UJ | 340 U | 850 U | 1700 U | 170 U | 340 U | 340 U | 17 U | 17 U | 170 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 4 U | 4 U | 40 U | 100 U | 20 U | 40 U | 100 U | 200 U | 20 U | 40 U | 40 U | 2 U | 2 U | 20 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 3 U | 3 U | 30 U | 75 U | 15 U | 30 U | 75 U | 150 U | 15 U | 30 U | 30 U | 1.5 U | 1.5 U | 15 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 3 U | 3 U | 30 U | 75 U | 15 U | 30 U | 75 U | 150 U | 15 U | 30 U | 30 U | 1.5 U | 1.5 U | 15 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 2.8 U | 2.8 U | 28 U | 70 U | 14 U | 28 U | 70 U | 140 U | 14 U | 28 U | 28 U | 1.4 U | 1.4 U | 14 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 2.8 U | 2.8 U | 28 U | 70 U | 14 U | 28 U | 70 U | 140 U | 14 U | 28 U | 28 U | 1.4 U | 1.4 U | 14 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 11 J | 7.9 J | 30 U | 87 J | 15 U | 30 U | 75 U | 150 U | 15 U | 30 U | 30 U | 12 | 6.7 J | 390 |
| 4-Nitrophenol | 100-02-7 | ug/kg | 36 U | 36 U | 360 U | 900 U | 180 U | 360 U | 900 U | 1800 U | 180 U | 360 U | 360 U | 18 U | 18 U | 180 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 6.4 U | 15 U | 8.6 U | 5.7 NJ | 3.9 U | 77 | 8.5 U | 1.8 J | 4.2 J | 4.3 J | 5 J | 2.3 J | 6.9 NJ | 0.3 U |
| Phenol | 108-95-2 | ug/kg | 4 U | 4 U | 40 U | 100 U | 20 U | 40 U | 100 U | 200 U | 20 U | 40 U | 40 U | 2 U | 2 U | 20 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 51 | 93 | 170 J | 350 U | 86 J | 180 J | 350 U | 700 U | 250 | 450 | 180 J | 82 | 100 | 70 U |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 6.4 U | 6.4 U | 64 U | 160 U | 32 U | 64 U | 160 U | 320 U | 32 U | 64 U | 64 U | 3.2 U | 12 U | 32 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 16 U | 16 U | 160 U | 400 U | 79 U | 160 U | 400 U | 790 U | 79 U | 160 U | 160 U | 16 | 10 | 79 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.6 U | 2.6 U | 26 U | 65 U | 13 U | 26 U | 65 U | 130 U | 13 U | 26 U | 26 U | 1.3 U | 4.3 U | 13 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 2 U | 2 U | 20 U | 50 U | 10 U | 20 U | 50 U | 100 U | 10 U | 20 U | 20 U | 1 U | 1 U | 10 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 3.4 U | 3.4 U | 34 U | 85 U | 17 U | 34 U | 85 U | 170 U | 17 U | 34 U | 34 U | 1.7 U | 1.7 U | 17 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 5.2 U | 5.2 U | 52 U | 130 U | 26 U | 52 U | 130 U | 260 U | 26 U | 52 U | 52 U | 2.6 U | 2.6 U | 26 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 5.8 U | 5.8 U | 58 U | 150 U | 29 U | 58 U | 150 U | 290 U | 29 U | 58 U | 58 U | 2.9 U | 2.9 U | 29 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 6 U | 6 U | 60 U | 150 U | 30 U | 60 U | 150 U | 300 U | 30 U | 60 U | 60 U | 3 U | 3 U | 30 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 5.8 U | 5.8 U | 58 U | 150 U | 29 U | 58 U | 150 U | 290 U | 29 U | 58 U | 58 U | 2.9 U | 2.9 U | 29 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 3 U | 3 U | 30 U | 75 U | 15 U | 30 U | 75 U | 150 U | 15 U | 30 U | 30 U | 1.5 U | 1.5 U | 15 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 4 U | 4 U | 40 U | 100 U | 20 U | 40 U | 100 U | 200 U | 20 U | 40 U | 40 U | 2 U | 2 U | 20 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 3.2 U | 3.2 U | 32 U | 80 U | 16 U | 32 U | 80 U | 160 U | 16 U | 32 U | 32 U | 1.6 U | 1.6 U | 16 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 6.4 U | 6.4 U | 64 U | 160 U | 32 U | 64 U | 160 U | 320 U | 32 U | 64 U | 64 U | 3.2 U | 3.2 U | 32 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 7.4 U | 7.4 U | 74 U | 190 U | 37 U | 74 U | 190 U | 370 U | 37 U | 74 U | 74 U | 3.7 U | 3.7 U | 37 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 5 U | 5 U | 50 U | 130 U | 25 U | 50 U | 130 U | 250 U | 25 U | 50 U | 50 U | 2.5 U | 2.5 U | 25 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 3.2 U | 3.2 U | 32 U | 80 U | 16 U | 32 U | 80 U | 160 U | 16 U | 32 U | 32 U | 1.6 U | 1.6 U | 16 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 3.8 U | 3.8 U | 38 U | 95 U | 19 U | 38 U | 95 U | 190 U | 19 U | 38 U | 38 U | 1.9 U | 1.9 U | 19 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 2.8 U | 2.8 U | 28 U | 70 U | 14 U | 28 U | 70 U | 140 U | 14 U | 28 U | 28 U | 1.4 U | 1.4 U | 14 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 3.6 U | 3.6 U | 36 U | 90 U | 18 U | 36 U | 90 U | 180 U | 18 U | 36 U | 36 U | 1.8 U | 1.8 U | 18 U |
| Aniline | 62-53-3 | ug/kg | 3 U | 3 U | 30 U | 75 U | 15 U | 30 U | 75 U | 150 U | R | R | R | R | 1.5 U | 15 U |
| Azobenzene | 103-33-3 | ug/kg | 2.2 U | 2.2 U | 22 U | 55 U | 11 U | 22 U | 55 U | 110 U | 11 U | 22 U | 22 U | 1.1 U | 1.1 U | 11 U |
| Benzoic acid | 65-85-0 | ug/kg | R | R | R | R | R | R | 4800 U | 9600 U | 960 UJ | 2000 UJ | 2000 UJ | 120 J | 96 U | 960 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 7.9 J | 4.2 U | 42 U | 110 U | 21 U | 42 U | 110 U | 210 U | 21 U | 42 U | 42 U | 2.1 U | 4.7 J | 21 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 3 U | 3 U | 30 U | 75 U | 15 U | 30 U | 75 U | 150 U | 15 U | 30 U | 30 U | 1.5 U | 1.5 U | 15 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 3.8 U | 3.8 U | 38 U | 95 U | 19 U | 38 U | 95 U | 190 U | 19 U | 38 U | 38 U | 1.9 U | 1.9 U | 19 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 5.2 U | 5.2 U | 52 U | 130 U | 26 U | 52 U | 130 U | 260 U | 26 U | 52 U | 52 U | 2.6 U | 2.6 U | 26 U |
| Carbazole | 86-74-8 | ug/kg | 2.6 J | 4.6 J | 26 U | 65 U | 13 U | 26 U | 65 U | 130 U | 13 U | 26 U | 26 U | 4.8 J | 6.1 J | 13 J |
| Dibenzofuran | 132-64-9 | ug/kg | 1.2 J | 3 | 5.2 | 17 J | 5.4 | 9.4 | 28 | 95 | 12 | 46 | 53 | 3.8 | 4.5 | 36 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.2 U | 0.34 U | 1.1 U | 0.41 U | 0.19 U | 0.068 U | 1.5 | 0.68 U | 12 U | 1.9 UJ | 1.4 J | 0.14 UJ | 0.19 UJ | 0.43 J |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C688-B | LW3-C688-C | LW3-C688-D | LW3-C688-F | LW3-C690-B | LW3-C690-C | LW3-C690-D | LW3-C690-E | LW3-C695-B | LW3-C695-D | LW3-C695-E | LW3-C698-B | LW3-C701-B | LW3-C701-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 30 - 114 | 114 - 221 | 221 - 281 | 404 - 457 | 30 - 151 | 151 - 274 | 274 - 346 | 346 - 471 | 30 - 95 | 221 - 343 | 343 - 384 | 30 - 152 | 30 - 148 | 194 - 286 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.7 U | 0.9 J | 0.7 U | 0.17 U | 0.41 U | 130 U | 1.6 J | 0.24 U | 0.81 U | 0.7 U | 0.14 U | 2.5 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 58 U | 58 U | 580 U | 1500 U | 290 U | 580 U | 1500 U | 2900 U | 290 U | 580 U | 580 U | 29 U | 29 U | 290 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.8 U | 0.8 U | 0.8 U | 0.16 U | 0.46 J | 1.3 | 1.6 U | 0.16 U | 0.8 U | 0.8 U | 0.16 U | 0.29 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 2 U | 2 U | 20 U | 50 U | 10 U | 20 U | 50 U | 100 U | 10 U | 20 U | 20 U | 1 U | 1 U | 10 U |
| Nitrobenzene | 98-95-3 | ug/kg | 4.4 U | 4.4 U | 44 U | 110 U | 22 U | 44 U | 110 U | 220 U | 22 U | 44 U | 44 U | 2.2 U | 2.2 U | 22 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 13 U | 13 U | 130 U | 310 U | 61 U | 130 U | 310 U | 610 U | 61 U | 130 U | 130 U | 6.1 U | 6.1 U | 61 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 3.2 U | 3.2 U | 32 U | 80 U | 16 U | 32 U | 80 U | 160 U | 16 U | 32 U | 32 U | 1.6 U | 1.6 U | 16 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 4.8 U | 4.8 U | 48 U | 120 U | 24 U | 48 U | 120 U | 240 U | 24 U | 48 U | 48 U | 2.4 U | 2.4 U | 24 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C701-E | LW3-C702-B | LW3-C702-C | LW3-C702-D | LW3-C702-F | LW3-C703-B | LW3-C703-C | LW3-C703-D | LW3-C704-B | LW3-C704-C | LW3-C704-D | LW3-C706-B | LW3-C706-C | LW3-C706-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 286 - 375 | 30 - 152 | 152 - 275 | 275 - 344 | 402 - 485 | 30 - 152 | 152 - 240 | 240 - 303 | 30 - 125 | 125 - 247 | 247 - 362 | 30 - 152 | 152 - 253 | 253 - 333 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 3.8 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 0.78 U | 0.73 U | 3.7 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 3.8 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 21 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 0.78 U | 0.73 U | 3.7 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 3.8 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 0.78 U | 0.73 U | 3.7 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 23 J | 13 J | 27 J | 3.7 U | 1.3 U | 3.7 U | 3.7 U | 0.78 U | 14 | 22 J | 9.4 J | 1.6 U | 2.4 U | 6.2 J |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 3.8 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 0.78 U | 0.73 U | 3.7 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 64 | 74 | 110 J | 19 J | 0.73 U | 30 J | 14 J | 0.73 U | 23 | 45 | 26 | 2.5 J | 3.3 | 35 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 52 | 53 | 90 NJ | 20 | 0.73 U | 45 | 28 | 0.88 J | 16 J | 33 J | 20 | 3.7 | 3.4 | 14 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 3.8 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 0.78 U | 0.73 U | 3.7 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 3.8 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U | 3.7 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 0.78 U | 0.73 U | 3.7 U |
| Aroclors | 12767-79-2 | ug/kg | 139 JT | 140 JT | 227 JT | 39 JT | 1.3 UT | 75 JT | 42 JT | 0.88 JT | 53 JT | 100 JT | 55.4 JT | 6.2 JT | 6.7 T | 55.2 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.58 | 1.46 | 1.62 | 1.77 | 1.8 T | 1.81 T | 1.41 | 1.8 | 1.72 T | 1.64 | 1.65 | 1.72 | 2.04 | 2 |
| Total organic carbon | TOC | percent | 2.51 | 2.24 | 1.85 | 0.58 | 0.12 | 1.52 T | 1.28 | 0.38 | 1.04 T | 2.5 | 1.34 | 2.07 | 2.22 | 1.94 |
| Total solids | TSO | percent | 57.3 | 47.9 T | 55.4 | 70.7 | 75.1 | 58 T | 62.2 | 74.4 | 67.2 T | 59.3 | 62.2 | 47 | 53.5 | 56.9 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | 4.12 A | 4.96 A | 0.845 JA | 0.00019 JA | 1.47 A | 0.604 JA | 0.00011 JA | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 0.4 | 4.88 | 0.18 | 1.46 | 0 | 0.29 | 1.51 | 0.0767 T | 0.04 | 0.43 | 0 T | 0 | 0 |
| Fine gravel | GS_FG | percent | 0.36 | 1.78 | 4.63 | 0.22 | 0.68 | 0.1 | 0.21 | 3.1 | 0.133 T | 1.01 | 1.17 | 0.267 T | 0.05 | 0.01 |
| Very coarse sand | GS_VCS | percent | 0.93 | 2.92 | 2.44 | 0.26 | 0.15 | 1.03 | 0.5 | 7.37 | 0.383 T | 0.8 | 1.83 | 0.71 T | 1.22 | 0.87 |
| Coarse sand | GS_CS | percent | 0.58 | 1.2 | 1.47 | 1.4 | 0.29 | 1.03 | 2.12 | 17.5 | 2.63 T | 0.39 | 2.22 | 0.643 T | 1.42 | 5.67 |
| Medium sand | GS_MS | percent | 0.58 | 0.57 | 0.68 | 13 | 20.2 | 1.1 | 3.05 | 23.2 | 15.9 T | 0.57 | 5.1 | 0.62 T | 1 | 15.4 |
| Fine sand | GS_FS | percent | 3.78 | 1.18 | 1.92 | 33.6 | 54.7 | 1.9 | 2.38 | 7.79 | 11.4 T | 1.44 | 20.6 | 1.73 T | 2.65 | 10.1 |
| Very fine sand | GS_VFS | percent | 10.2 | 5.45 | 8.56 | 23.6 | 10.9 | 10.1 | 13 | 7.26 | 16.3 T | 12 | 21.6 | 9.14 T | 12.2 | 7.34 |
| Fines | GS_FINES | percent | 88 T | 84.2 T | 78.2 T | 26.4 T | 8.87 T | 86.7 T | 87.2 T | 29.5 T | 52.2 T | 86 T | 49.1 T | 87 JT | 81.8 T | 59.3 T |
| Coarse silt | GS_CSILT | percent | 20.7 | 16.6 | 11.2 | 10.9 | 3.13 | 30.1 | 18.81 | 6.97 | 22.4 T | 30.2 | 18.2 | 21.9 T | 27 | 16.2 |
| Medium silt | GS_MSILT | percent | 21.3 | 24.4 | 23.7 | 6.26 | 2.35 | 14.3 | 25.75 | 7.56 | 13.7 T | 23.9 | 12.5 | 23.2 T | 16.6 | 14.4 |
| Fine silt | GS_FSILT | percent | 18.6 | 13.3 | 16.9 | 3.47 | 1.39 | 18.6 | 17.55 | 5.4 | 7.22 T | 14.6 | 7.93 | 16.6 T | 14.9 | 10.4 |
| Very fine silt | GS_VFSILT | percent | 11.9 | 10 | 9.59 | 1.94 | 0.62 | 7.24 | 8.52 | 2.91 | 3.31 T | 6.78 | 4.27 | 9.46 T | 9.36 | 6.75 |
| 8-9 Phi clay | GS_CCLAY | percent | 6.9 | 7.27 | 5.93 | 0.93 | 0.45 | 6.55 | 5.35 | 2.6 | 2.12 T | 4.37 | 2.68 | 5.57 JT | 5.25 | 4.27 |
| >9 Phi clay | GS_MFCLAY | percent | 8.56 | 12.6 | 10.9 | 2.9 | 0.93 | 9.86 | 11.21 | 4.02 | 3.49 T | 6.16 | 3.47 | 10.3 T | 8.72 | 7.23 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 28000 | 30100 | 31000 | 18000 | 14800 | 30600 | 31200 | 16400 T | 18600 T | 25200 | 22800 | 34800 | 31600 | 30800 |
| Antimony | 7440-36-0 | mg/kg | 0.31 J | 0.37 J | 0.2 J | 0.09 J | 0.05 J | 0.7 J | 0.47 J | 0.1 JT | 0.29 JT | 0.44 J | 0.36 J | 0.34 J | 0.39 J | 3.45 J |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C701-E | LW3-C702-B | LW3-C702-C | LW3-C702-D | LW3-C702-F | LW3-C703-B | LW3-C703-C | LW3-C703-D | LW3-C704-B | LW3-C704-C | LW3-C704-D | LW3-C706-B | LW3-C706-C | LW3-C706-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 286 - 375 | 30 - 152 | 152 - 275 | 275 - 344 | 402 - 485 | 30 - 152 | 152 - 240 | 240 - 303 | 30 - 125 | 125 - 247 | 247 - 362 | 30 - 152 | 152 - 253 | 253 - 333 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 3.15 | 5.51 | 4.18 | 2.41 | 1.85 | 6.22 | 5.45 | 2.12 T | 1.93 T | 2.51 | 1.99 | 4.29 | 4.55 | 14.9 |
| Cadmium | 7440-43-9 | mg/kg | 0.341 | 0.351 | 0.354 | 0.13 | 0.056 | 0.483 | 0.363 | 0.09 T | 0.203 T | 0.352 | 0.184 | 0.197 | 0.259 | 0.431 |
| Chromium | 7440-47-3 | mg/kg | 26.3 | 26.7 | 26.7 | 17.1 | 13.5 | 36 | 29.9 | 16.2 T | 17.2 T | 21.9 | 17.9 | 31.1 | 34.5 | 36.5 |
| Copper | 7440-50-8 | mg/kg | 46.1 | 198 | 69.6 | 27.3 | 17.5 | 76.1 | 51.9 | 20 T | 26.7 T | 38.3 | 28.2 | 92.7 | 81.8 | 531 |
| Lead | 7439-92-1 | mg/kg | 27.8 | 40.2 | 43.6 | 11.9 | 3.09 | 38.4 | 30.6 | 11.9 T | 15.6 T | 26 | 19 | 14.5 | 18.5 | 56.9 |
| Mercury | 7439-97-6 | mg/kg | 0.184 J | 0.137 | 0.459 | 0.113 | 0.015 | 0.489 T | 0.354 | 0.06 | 0.101 JT | 0.294 J | 0.14 J | 0.061 | 0.061 | 0.078 |
| Nickel | 7440-02-0 | mg/kg | 26.2 | 22.9 | 22.9 | 21.4 | 21.9 | 29.6 | 25.3 | 17.4 T | 20.1 T | 23.2 | 21 | 24.1 | 28.6 | 28.5 |
| Silver | 7440-22-4 | mg/kg | 0.35 | 0.5 | 0.39 | 0.15 | 0.08 | 0.948 | 0.712 | 0.125 T | 0.2 T | 0.49 | 0.18 | 0.464 | 0.436 | 0.775 |
| Zinc | 7440-66-6 | mg/kg | 164 | 253 | 249 | 80.1 | 51.9 | 165 | 134 | 70 T | 133 T | 137 | 128 | 141 | 126 | 505 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 7.2 | 7.2 | 5.1 | 6.6 | 0.31 U | 11 | 11 | 4.5 | 9.3 | 18 | 8.8 | 1.5 J | 5.3 | 33 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 13 | 10 | 11 | 11 | 0.39 U | 21 | 24 | 6.3 | 16 | 33 | 16 | 1.9 J | 5.3 | 28 |
| Acenaphthene | 83-32-9 | ug/kg | 11 | 30 | 18 | 10 | 0.23 U | 17 | 17 | 9.8 | 12 | 22 | 12 | 1.5 J | 8.1 | 100 |
| Acenaphthylene | 208-96-8 | ug/kg | 6.4 | 8.4 | 7.9 | 9.2 | 0.24 U | 18 | 21 | 13 | 8.5 | 23 | 5.4 | 1.4 J | 2.4 | 17 |
| Anthracene | 120-12-7 | ug/kg | 10 | 36 | 14 | 11 | 0.47 U | 19 | 17 | 26 | 15 | 33 | 9.8 | 2.8 | 6.3 | 120 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 36 | 140 | 73 | 27 | 0.48 U | 64 | 54 | 110 | 34 | 48 | 32 | 11 | 27 | 370 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 37 | 140 | 77 | 30 | 0.14 U | 78 | 77 | 110 | 36 | 62 | 35 | 13 | 29 | 380 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 48 | 200 | 110 | 37 | 0.25 U | 98 | 90 | 100 | 43 | 66 | 50 | 20 | 43 | 520 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | | | | | | | | | | | | 12 | 25 | 270 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 32 | 97 | 64 | 25 | 0.64 U | 71 | 81 | 70 | 32 | 57 | 28 | 13 | 23 | 250 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 20 | 64 | 35 | 11 | 0.15 U | 26 | 28 | 30 | 17 | 20 | 17 | 8.4 | 15 | 170 |
| Chrysene | 218-01-9 | ug/kg | 42 | 150 | 90 | 36 | 0.25 U | 88 | 77 | 120 | 44 | 62 | 42 | 16 | 34 | 420 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 6.2 | 21 | 11 | 3.6 | 0.28 U | 9.1 | 8.8 | 12 | 4.9 | 6.9 | 5.8 | 2.6 J | 4.9 | 57 |
| Dibenzothiophene | 132-65-0 | ug/kg | 5.1 | 12 | 11 | 5.1 | 0.21 U | 11 | 11 | 10 | 5.4 | 14 | 3.4 | 0.96 J | 3.3 | 50 |
| Fluoranthene | 206-44-0 | ug/kg | 86 | 320 | 190 | 75 | 0.61 U | 220 | 190 | 150 | 96 | 170 | 74 | 26 | 69 | 1000 |
| Fluorene | 86-73-7 | ug/kg | 10 | 32 | 23 | 8.6 | 0.5 U | 17 | 16 | 12 | 12 | 25 | 11 | 1.9 J | 9.6 | 120 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 31 | 110 | 65 | 24 | 0.16 U | 63 | 69 | 66 | 30 | 51 | 29 | 12 | 25 | 300 |
| Naphthalene | 91-20-3 | ug/kg | 22 | 23 | 16 | 31 | 0.51 U | 52 | 53 | 17 | 37 | 69 | 57 | 5.9 | 8.5 | 53 |
| Perylene | 198-55-0 | ug/kg | | | | | | | | | | | | 24 | 59 | 120 |
| Phenanthrene | 85-01-8 | ug/kg | 61 | 220 | 140 | 69 | 0.75 U | 160 | 140 | 130 | 74 | 150 | 58 | 13 | 51 | 790 |
| Pyrene | 129-00-0 | ug/kg | 89 | 280 | 190 | 100 | 0.37 U | 240 | 240 | 220 | 100 | 170 | 77 | 24 | 59 | 700 |
| High Molecular Weight PAH | HPAH | ug/kg | 430 T | 1500 T | 910 T | 370 T | 0.64 UT | 960 T | 910 T | 990 T | 440 T | 710 T | 390 T | 150 JT | 330 T | 4200 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 130 T | 360 T | 230 T | 150 T | 0.75 UT | 300 T | 290 T | 210 T | 170 T | 360 T | 170 T | 28 JT | 91 T | 1200 T |
| Total PAHs | 130498-29-2 | ug/kg | 560 T | 1900 T | 1100 T | 520 T | 0.75 UT | 1300 T | 1200 T | 1200 T | 610 T | 1100 T | 560 T | 170 JT | 420 T | 5400 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | | | | | | | | | | | | 2.2 J | 5.4 | 48 |
| C1-Chrysene | C1_218-01-9 | ug/kg | | | | | | | | | | | | 8.8 | 19 | 290 |
| C1-Fluorene | C1_86-73-7 | ug/kg | | | | | | | | | | | | 2.1 J | 5.1 | 47 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | | | | | | | | | | | | 17 | 40 | 420 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | | | | | | | | | | | | 11 | 32 | 410 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | | | | | | | | | | | | 6.5 | 14 | 160 |
| C2-Chrysene | C2_218-01-9 | ug/kg | | | | | | | | | | | | 13 | 19 | 220 |
| C2-Fluorene | C2_86-73-7 | ug/kg | | | | | | | | | | | | 6.1 | 15 | 110 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | | | | | | | | | | | | 5 | 21 | 100 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | | | | | | | | | | | | 12 | 34 | 340 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | | | | | | | | | | | | 7.3 | 14 | 180 |
| C3-Chrysene | C3_218-01-9 | ug/kg | | | | | | | | | | | | 11 | 15 | 85 |
| C3-Fluorene | C3_86-73-7 | ug/kg | | | | | | | | | | | | 6.8 | 19 | 190 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | | | | | | | | | | | | 4.7 | 13 | 140 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | | | | | | | | | | | | 16 | 30 | 320 |
| C4-Chrysene | C4_218-01-9 | ug/kg | | | | | | | | | | | | 0.25 U | 0.25 U | 43 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | | | | | | | | | | | | 5.7 | 17 | 120 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | | | | | | | | | | | | 7 | 14 | 140 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | | | | | | | | | | | | 14 | 27 | 240 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | | | | | | | | | | | | 8.9 | 18 | 150 |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | 94 | 53.2 | 7.4 | 4.84 U | 33.4 | 5.57 | 4.75 UT | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | 116 | 16.2 | 4.32 U | 4.84 U | 11.3 | 8.91 | 4.75 UT | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | 97.3 | 56.9 | 8.38 | 4.84 U | 23.4 | 8.75 | 4.75 UT | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | 130 | 121 | 11.6 | 9.68 U | 25.1 | 9.88 U | 9.51 UT | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | 400 | 650 | 63.7 | 9.68 U | 101 | 14.2 | 9.51 UT | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | 120 | 152 | 16.7 | 9.68 U | 24 | 9.88 U | 9.51 UT | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | 47.5 | 52.7 | 8.64 U | 9.68 U | 12.8 | 9.88 U | 9.51 UT | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | 414 | 15.6 | 8.64 U | 9.68 U | 18 | 9.88 U | 9.51 UT | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | 61.2 | 76.3 | 8.64 U | 9.68 U | 15.5 | 9.88 U | 9.51 UT | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | 9.9 U | 9.83 U | 8.64 U | 9.68 U | 9.85 U | 9.88 U | 9.51 UT | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C701-E | LW3-C702-B | LW3-C702-C | LW3-C702-D | LW3-C702-F | LW3-C703-B | LW3-C703-C | LW3-C703-D | LW3-C704-B | LW3-C704-C | LW3-C704-D | LW3-C706-B | LW3-C706-C | LW3-C706-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 286 - 375 | 30 - 152 | 152 - 275 | 275 - 344 | 402 - 485 | 30 - 152 | 152 - 240 | 240 - 303 | 30 - 125 | 125 - 247 | 247 - 362 | 30 - 152 | 152 - 253 | 253 - 333 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | 271 | 294 | 28.2 | 9.68 U | 39.6 | 9.88 U | 9.51 UT | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | 523 | 1070 | 111 | 4.84 U | 140 | 16.5 | 4.75 UT | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | 405 | 930 | 99 | 4.84 U | 93.1 | 13.6 | 4.75 UT | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | 766 | 1690 | 179 | 4.84 U | 196 | 24.6 | 4.75 UT | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | 79.1 | 104 | 11.6 | 4.84 U | 14.9 | 4.94 U | 4.75 UT | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | 673 | 1640 | 170 | 4.84 U | 209 | 40.1 | 4.75 UT | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | 328 | 725 | 73.1 | 4.84 U | 82.7 | 11.4 | 4.75 UT | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | 60.5 | 103 | 9.73 | 4.84 U | 11 | 4.94 U | 4.75 UT | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | 166 | 287 | 26.7 | 4.84 U | 43.5 | 8.03 | 4.75 UT | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | 190 | 373 | 39.1 | 4.84 U | 53.9 | 11.7 | 4.75 UT | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | 1440 | 2910 | 332 | 4.84 U | 386 | 62.4 | 4.75 UT | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | 4.95 U | 7.31 | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | 918 | 2340 | 240 | 4.84 U | 308 | 41.7 | 4.75 UT | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | 23.9 | 58.3 | 5.18 | 4.84 U | 6.46 | 4.94 U | 4.75 UT | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | 25.8 | 40.8 | 5.83 | 4.84 U | 12.3 | 4.94 U | 4.75 UT | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | 5.35 | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | 397 | 712 | 75 | 4.84 U | 73.3 | 12.9 | 4.75 UT | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | 64.3 | 91.8 | 15.2 | 4.84 U | 14.5 | 5.02 | 4.75 UT | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | 23.7 | 42 | 8.88 | 4.84 U | 11.1 | 4.94 U | 4.75 UT | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | 249 | 587 | 67 | 4.84 U | 80.4 | 14 | 4.75 UT | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | 1630 | 3470 | 431 | 4.84 U | 762 | 164 | 4.75 UT | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | 612 | 1370 | 162 | 4.84 U | 225 | 48.1 | 4.75 UT | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | 3500 | 5490 | 765 | 4.84 U | 1590 | 467 | 4.75 UT | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | 2370 | 4890 | 614 | 4.84 U | 1010 | 187 | 4.75 UT | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | 185 | 430 | 43.2 | 4.84 U | 58.1 | 7 | 4.75 UT | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | 98.7 | 210 | 24.2 | 4.84 U | 42.3 | 5.48 | 4.75 UT | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | 1180 | 1570 | 270 | 4.84 U | 645 | 203 | 4.82 T | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | 320 | 714 | 71.9 | 4.84 U | 100 | 15.4 | 4.75 UT | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | 9.18 | 13.2 | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | 233 | 183 | 24.1 | 4.84 U | 60.5 | 6.57 | 4.75 UT | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | 4430 | 6720 | 944 | 4.84 U | 2000 | 484 | 4.75 UT | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | 442 | 497 | 60.5 | 4.84 U | 137 | 17 | 4.75 UT | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | 21.7 | 6.32 | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | 62 | 91.6 | 18.9 | 4.84 U | 32.7 | 11.7 | 4.75 UT | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | 780 | 1760 | 224 | 4.84 U | 361 | 84.4 | 4.75 UT | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | 18.8 | 30.5 | 5.05 | 4.84 U | 12.4 | 6.44 | 4.75 UT | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | 44.4 | 65.6 | 10.1 | 4.84 U | 22.3 | 6.21 | 4.75 UT | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | 3830 | 7030 | 964 | 4.9 | 1710 | 417 | 4.75 UT | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | 108 | 185 | 20.3 | 4.84 U | 39.2 | 9.92 | 4.75 UT | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | 3080 | 5320 | 659 | 4.84 U | 1010 | 233 | 4.75 UT | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | 43.2 | 89.1 | 10.3 | 4.84 U | 14.2 | 5.59 | 4.75 UT | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | 92.4 | 140 | 39.4 | 4.84 U | 123 | 30.4 | 4.75 UT | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | 983 | 2050 | 240 | 4.84 U | 375 | 76.3 | 4.75 UT | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | 182 | 313 | 31.5 | 1.64 U | 44.4 | 11.8 | 0.942 UT | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | 156 | 223 | 51.4 | 4.84 U | 106 | 53.4 | 4.75 UT | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | 25.2 | 13.8 | 2.54 J | 0.715 U | 6.95 | 3.36 J | 0.336 UT | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | 691 | 1060 | 153 | 4.84 U | 266 | 58.6 | 4.75 UT | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | 4200 | 6190 | 1050 | 4.84 U | 2520 | 1160 | 4.75 UT | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | 1030 | 1460 | 232 | 4.84 U | 397 | 125 | 4.75 UT | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | 39.2 | 25.7 | 4.32 U | 4.84 U | 12.7 | 4.94 U | 4.75 UT | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | 2250 | 3270 | 550 | 4.84 U | 1030 | 291 | 4.75 UT | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | 1600 | 2220 | 429 | 4.84 U | 943 | 336 | 4.75 UT | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | 55.5 | 101 | 12.9 | 4.84 U | 20.6 | 6.34 | 4.75 UT | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | 10200 | 14700 | 2640 | 6.86 | 6480 | 3450 | 5.06 T | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | 50.1 | 47.8 | 6.95 | 4.84 U | 16.5 | 4.94 U | 4.75 UT | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | 7920 | 11100 | 1980 | 6.05 | 4440 | 2140 | 4.75 UT | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | 76.9 | 84.7 | 13.2 | 4.84 U | 24.2 | 6.29 | 4.75 UT | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C701-E | LW3-C702-B | LW3-C702-C | LW3-C702-D | LW3-C702-F | LW3-C703-B | LW3-C703-C | LW3-C703-D | LW3-C704-B | LW3-C704-C | LW3-C704-D | LW3-C706-B | LW3-C706-C | LW3-C706-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 286 - 375 | 30 - 152 | 152 - 275 | 275 - 344 | 402 - 485 | 30 - 152 | 152 - 240 | 240 - 303 | 30 - 125 | 125 - 247 | 247 - 362 | 30 - 152 | 152 - 253 | 253 - 333 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | 2530 | 3610 | 560 | 4.84 U | 938 | 252 | 4.75 UT | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | 4810 | 6850 | 1300 | 4.84 U | 3240 | 1660 | 4.75 UT | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | 156 | 122 | 41.8 | 4.84 U | 132 | 56.3 | 4.75 UT | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | 300 | 333 | 77.9 | 4.84 U | 251 | 177 | 4.75 UT | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | 7.2 | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | 1590 | 2340 | 409 | 1.56 U | 699 | 190 | 0.933 JT | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | 7200 | 9720 | 1580 | 4.44 J | 2940 | 1070 | 2.79 JT | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | 676 | 990 | 173 | 4.84 U | 391 | 204 | 4.75 UT | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | 433 | 583 | 91.5 | 4.84 U | 176 | 60.3 | 4.75 UT | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | 10700 | 14900 | 2550 | 6.25 | 4960 | 1980 | 4.88 T | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | 65.8 | 122 | 25.4 | 4.84 U | 47.7 | 22.2 | 4.75 UT | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | 65 | 40.4 | 12.9 | 4.84 U | 35.5 | 51.3 | 4.75 UT | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | 84.9 | 124 | 25.2 | 1.55 U | 36.9 | 6.37 | 0.566 UT | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | 449 | 533 | 101 | 4.84 U | 293 | 202 | 4.75 UT | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | 37.8 | 65.3 | 17.9 | 4.84 U | 56.2 | 32 | 4.75 UT | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 8.15 | 4.75 UT | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | 54.4 | 84.1 | 16.5 | 4.84 U | 27.9 | 7.76 | 4.75 UT | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | 67 | 104 | 20.3 | 1.72 U | 31.5 | 6.51 | 0.569 UT | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | 184 | 312 | 69.1 | 4.84 U | 110 | 25.4 | 4.75 UT | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | 37.9 | 45 | 7.69 | 1.76 U | 13.3 | 5.5 | 0.642 UT | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | 1250 | 1810 | 337 | 4.84 U | 691 | 316 | 4.75 UT | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | 329 | 470 | 85 | 4.84 U | 177 | 65.4 | 4.75 UT | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | 661 | 1040 | 201 | 4.84 U | 547 | 327 | 4.75 UT | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | 2840 | 4010 | 743 | 4.84 U | 2140 | 1360 | 4.75 UT | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | 367 | 602 | 120 | 4.84 U | 505 | 457 | 4.75 UT | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | 537 | 759 | 139 | 4.84 U | 364 | 230 | 4.75 UT | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | 1720 | 2340 | 487 | 4.84 U | 1690 | 1400 | 4.75 UT | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | 1560 | 2150 | 473 | 4.84 U | 1470 | 996 | 4.75 UT | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | 340 | 512 | 89.8 | 4.84 U | 173 | 49.2 | 4.75 UT | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | 8930 | 13200 | 2590 | 8.22 | 7720 | 4920 | 5.7 T | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | 9540 | 12700 | 2780 | 6.57 | 8110 | 6160 | 5.93 T | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | 144 | 182 | 42.2 | 4.84 U | 174 | 209 | 4.75 UT | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | 1440 | 2200 | 411 | 4.84 U | 1370 | 914 | 4.75 UT | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | 374 | 535 | 120 | 4.84 U | 338 | 253 | 4.75 UT | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | 2120 | 3280 | 711 | 4.84 U | 2920 | 2470 | 4.75 UT | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | 274 | 310 | 75.4 | 4.84 U | 203 | 97.9 | 4.75 UT | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | 63.6 | 110 | 25.2 | 4.84 U | 158 | 164 | 4.75 UT | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | 56.2 | 71.2 | 25.2 | 4.84 U | 86.8 | 44.6 | 4.75 UT | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | 2540 | 3320 | 681 | 4.84 U | 2350 | 1980 | 4.75 UT | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | 13.1 | 10 | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | 9870 | 14400 | 3040 | 7.46 | 10100 | 7100 | 6.72 T | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | 429 | 604 | 159 | 4.84 U | 681 | 585 | 4.75 UT | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 5.84 | 4.94 U | 4.75 UT | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | 772 | 1120 | 210 | 1.19 J | 495 | 264 | 0.571 UT | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | 150 | 200 | 36 | 0.676 U | 66.5 | 19.2 | 0.597 UT | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | 835 | 1160 | 215 | 4.84 U | 523 | 300 | 4.75 UT | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | 23.4 | 36.1 | 7.97 | 4.84 U | 11.2 | 4.94 U | 4.75 UT | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | 307 | 453 | 81.6 | 0.792 J | 193 | 104 | 0.627 UT | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | 26.3 | 40 | 9.18 | 4.84 U | 38.9 | 30.1 | 4.75 UT | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | 2.53 U | 3.35 U | 1.1 U | 0.786 U | 2.48 U | 2.28 U | 0.718 UT | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | 2310 | 3650 | 704 | 4.84 U | 2590 | 1790 | 4.75 UT | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | 674 | 1070 | 221 | 4.84 U | 777 | 540 | 4.75 UT | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | 409 | 666 | 120 | 4.84 U | 460 | 314 | 4.75 UT | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | 58.1 | 94.7 | 17.6 | 4.84 U | 60.9 | 42.3 | 4.75 UT | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | 2790 | 4430 | 848 | 4.84 U | 3310 | 2340 | 4.75 UT | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | 134 | 235 | 37.6 | 4.84 U | 140 | 107 | 4.75 UT | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | 435 | 653 | 118 | 4.84 U | 477 | 387 | 4.75 UT | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | 1680 | 2750 | 524 | 4.84 U | 2120 | 1700 | 4.75 UT | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | 673 | 1080 | 186 | 4.84 U | 892 | 764 | 4.75 UT | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | 1430 | 2160 | 402 | 4.84 U | 1730 | 1370 | 4.75 UT | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | 5760 | 9020 | 1710 | 5.6 | 6760 | 4730 | 5.01 T | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | 37.2 | 28.8 | 4.32 U | 4.84 U | 15.2 | 14.7 | 4.75 UT | | | | | | |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C701-E | LW3-C702-B | LW3-C702-C | LW3-C702-D | LW3-C702-F | LW3-C703-B | LW3-C703-C | LW3-C703-D | LW3-C704-B | LW3-C704-C | LW3-C704-D | LW3-C706-B | LW3-C706-C | LW3-C706-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 286 - 375 | 30 - 152 | 152 - 275 | 275 - 344 | 402 - 485 | 30 - 152 | 152 - 240 | 240 - 303 | 30 - 125 | 125 - 247 | 247 - 362 | 30 - 152 | 152 - 253 | 253 - 333 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | 3970 | 6000 | 1080 | 4.84 U | 4800 | 3750 | 4.75 UT | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | 1680 | 2470 | 464 | 4.84 U | 1820 | 1280 | 4.75 UT | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | 4.95 U | 5.35 | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | 278 | 420 | 82.6 | 4.84 U | 315 | 222 | 4.75 UT | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | 10.4 | 17.1 | 4.32 U | 4.84 U | 25.5 | 8.71 | 4.75 UT | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | 90 | 143 | 26.5 | 0.434 U | 92.9 | 64.4 | 0.354 UT | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | 485 | 729 | 138 | 4.84 U | 529 | 371 | 4.75 UT | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | 101 | 161 | 26 | 4.84 U | 97.8 | 67.9 | 4.75 UT | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | 299 | 487 | 92.6 | 4.84 U | 379 | 287 | 4.75 UT | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | 1230 | 1960 | 373 | 4.84 U | 1430 | 978 | 4.75 UT | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | 580 | 913 | 175 | 4.84 U | 626 | 443 | 4.75 UT | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | 1900 | 2800 | 448 | 4.84 U | 1880 | 1380 | 4.75 UT | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | 63.2 | 86.8 | 17.6 | 4.84 U | 66.1 | 48.7 | 4.75 UT | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | 99.4 | 140 | 23.7 | 4.84 U | 93.2 | 66.7 | 4.75 UT | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | 1720 | 2590 | 409 | 4.84 U | 1690 | 1290 | 4.75 UT | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | 223 | 315 | 55 | 4.84 U | 214 | 153 | 4.75 UT | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | 220 | 307 | 52.8 | 4.84 U | 215 | 172 | 4.75 UT | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | 305 | 440 | 78.1 | 4.84 U | 315 | 249 | 4.75 UT | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | 4.95 U | 4.91 U | 4.32 U | 4.84 U | 4.93 U | 4.94 U | 4.75 UT | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | 53 | 96 | 17.8 | 4.84 U | 65 | 44.5 | 4.75 UT | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | 533 | 858 | 172 | 4.84 U | 709 | 634 | 4.75 UT | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | 63.8 | 97.7 | 18.9 | 4.84 U | 77.2 | 66.8 | 4.75 UT | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | 142 | 238 | 53.8 | 4.84 U | 222 | 217 | 4.75 UT | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | 291 | 583 | 178 | 4.84 U | 772 | 837 | 4.75 UT | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | 168000 T | 255000 T | 44200 JT | 58.3 JT | 122000 T | 74000 JT | 41.8 JT | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | 4.12 T | 4.96 T | 0.845 JT | 0.00019 JT | 1.47 T | 0.604 JT | 0.00011 JT | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | 307 T | 126 T | 15.8 T | 4.84 UT | 68.1 T | 23.2 T | 4.75 UT | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | 1440 T | 1360 T | 120 T | 9.68 UT | 236 T | 14.2 T | 9.51 UT | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | 6090 T | 13100 T | 1400 T | 4.84 UT | 1660 T | 248 T | 4.75 UT | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | 24700 T | 43500 T | 5750 JT | 4.9 T | 10600 T | 2570 JT | 4.82 T | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | 57600 T | 81100 T | 14100 T | 23.6 JT | 30500 T | 13600 T | 13.7 JT | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | 47500 T | 67600 T | 13900 T | 24.2 JT | 43300 T | 30800 T | 18.4 T | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | 23300 T | 36300 T | 6800 T | 5.6 T | 27400 T | 20200 T | 5.01 T | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | 6390 T | 9650 T | 1650 T | 4.84 UT | 6590 T | 4820 T | 4.75 UT | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | 739 T | 1190 T | 245 T | 4.84 UT | 1010 T | 918 T | 4.75 UT | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 4.1 NJ | 1.8 U | 3 U | 4.3 J | 0.16 U | 6.1 J | 2.4 J | 0.16 U | 3 NJ | 3 J | 2.2 NJ | 0.5 J | 1.4 J | 1.4 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.56 U | 2.2 U | 0.35 U | 0.47 U | 0.046 U | 1.5 U | 0.89 U | 0.046 U | 0.24 U | 0.17 U | 1.5 U | 0.22 U | 0.046 U | 1.1 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 3.7 J | 6.7 | 9.9 | 1.7 | 0.061 U | 3.7 NJ | 2 U | 0.061 U | 1.2 J | 2.6 NJ | 1.6 J | 0.68 U | 0.63 J | 3.7 |
| 4,4'-DDD | 72-54-8 | ug/kg | 5.1 | 2.5 J | 6.4 J | 2.6 | 0.073 U | 6.6 | 1.2 | 0.073 U | 5.7 | 5.9 | 4.1 | 1.2 | 3.7 | 1.3 |
| 4,4'-DDE | 72-55-9 | ug/kg | 11 J | 7.7 NJ | 13 NJ | 1.8 NJ | 0.027 U | 11 J | 3.7 NJ | 0.027 U | 3.4 J | 12 J | 5.1 J | 2.8 | 4.9 | 2.5 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 3.9 U | 10 | 14 J | 2.1 J | 0.18 U | 6.6 U | 5.5 J | 0.18 U | 1.4 | 2 U | 1.7 U | 0.83 U | 0.93 U | 4.8 |
| Aldrin | 309-00-2 | ug/kg | 0.33 U | 0.13 U | 0.32 U | 0.12 U | 0.12 U | 0.12 U | 0.19 J | 0.12 U | 0.15 U | 0.61 NJ | 0.5 NJ | 0.24 NJ | 0.24 J | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.16 U | 0.21 U | 0.31 U | 0.15 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.18 NJ | 0.24 | 0.11 U | 0.19 J | 0.19 U | 0.18 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.11 U | 0.21 U | 0.19 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.13 U | 0.097 U | 0.097 U | 0.22 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.57 J | 1.4 NJ | 0.35 U | 0.22 | 0.031 U | 0.72 U | 0.17 U | 0.031 U | 0.13 U | 0.31 J | 0.26 NJ | 0.033 U | 0.24 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.28 U | 1.2 J | 0.47 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.84 U | 1.1 U | 0.14 U | 0.22 U | 0.14 U | 0.41 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.18 U | 0.033 U | 0.23 U | 0.031 U | 0.031 U | 0.031 U | 0.16 U | 0.031 U | 0.092 NJ | 0.22 J | 0.031 U | 0.061 U | 0.74 | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 2.7 U | 4.4 U | 4.6 U | 1.1 U | 0.087 U | 6.2 U | 3.9 U | 0.087 U | 0.85 U | 1.8 U | 1.2 U | 0.48 U | 0.52 U | 2.4 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.19 U | 0.21 U | 0.2 U | 0.11 U | 0.11 U | 0.16 U | 0.11 U | 0.11 U | 0.11 U | 0.17 U | 0.12 U | 0.12 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.36 U | 0.67 NJ | 0.32 U | 0.03 U | 0.03 U | 0.03 U | 0.03 U | 0.038 NJ | 0.18 U | 0.17 U | 0.19 U | 0.26 U | 0.03 U | 0.2 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.21 U | 0.058 U | 0.058 U | 0.058 U | 0.24 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.22 U | 0.78 U | 0.26 U |
| Endrin | 72-20-8 | ug/kg | 0.18 U | 0.69 U | 1.4 U | 0.071 U | 0.071 U | 0.38 U | 0.071 U | 0.071 U | 0.21 U | 0.15 U | 0.17 U | 0.075 U | 0.071 U | 0.18 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.54 U | 0.42 U | 0.37 U | 0.042 U | 0.042 U | 1.5 U | 0.87 U | 0.042 U | 0.21 U | 0.39 U | 0.35 U | 0.045 U | 0.19 U | 0.33 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.82 U | 0.96 U | 1.5 U | 0.29 U | 0.029 U | 1.4 U | 1.1 U | 0.029 U | 0.25 U | 0.46 U | 0.39 U | 0.19 U | 0.21 U | 0.51 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.24 | 0.21 U | 0.062 U | 0.16 U | 0.062 U | 0.36 U | 0.34 U | 0.14 U | 0.15 U | 0.17 U | 0.073 U | 0.22 U | 0.062 U | 0.64 U |
| Heptachlor | 76-44-8 | ug/kg | 0.51 U | 0.21 U | 0.62 U | 0.076 U | 0.076 U | 0.35 | 0.076 U | 0.076 U | 0.26 J | 0.43 | 0.27 U | 0.081 U | 0.076 U | 0.28 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.73 U | 0.61 U | 1.4 U | 0.21 U | 0.068 U | 0.38 U | 0.068 U | 0.068 U | 0.31 NJ | 0.35 U | 0.37 NJ | 0.54 NJ | 0.19 U | 0.47 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.32 U | 1.1 U | 0.66 U | 0.15 U | 0.075 U | 0.72 U | 0.5 U | 0.075 U | 0.075 U | 0.29 U | 0.17 U | 0.82 U | 0.45 U | 0.95 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.13 U | 0.12 U | 0.14 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.13 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.58 NJ | 0.27 U | 0.48 J | 0.063 U | 0.061 U | 0.21 U | 0.084 U | 0.061 U | 0.17 NJ | 0.49 J | 0.18 U | 0.095 NJ | 0.061 U | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.58 JT | 3.9 JT | 6.7 JT | 0.61 JT | 0.087 UT | 3.2 JT | 3.9 UT | 0.087 UT | 0.26 JT | 0.71 JT | 1.2 UT | 0.59 JT | 2.2 T | 2.4 UT |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C701-E | LW3-C702-B | LW3-C702-C | LW3-C702-D | LW3-C702-F | LW3-C703-B | LW3-C703-C | LW3-C703-D | LW3-C704-B | LW3-C704-C | LW3-C704-D | LW3-C706-B | LW3-C706-C | LW3-C706-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 286 - 375 | 30 - 152 | 152 - 275 | 275 - 344 | 402 - 485 | 30 - 152 | 152 - 240 | 240 - 303 | 30 - 125 | 125 - 247 | 247 - 362 | 30 - 152 | 152 - 253 | 253 - 333 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.57 JT | 1.4 JT | 0.35 UT | 0.22 T | 0.058 UT | 0.72 UT | 0.17 UT | 0.058 UT | 0.18 JT | 0.55 JT | 0.26 JT | 0.19 JT | 0.78 UT | 0.26 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 9.2 JT | 2.5 JT | 6.4 JT | 6.9 JT | 0.16 UT | 13 JT | 3.6 JT | 0.16 UT | 8.7 JT | 8.9 JT | 6.3 JT | 1.7 JT | 5.1 JT | 1.3 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 24 JT | 27 JT | 43 JT | 13 JT | 0.18 UT | 27 JT | 13 JT | 0.18 UT | 15 JT | 24 JT | 13 JT | 4.5 JT | 11 JT | 12 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 11 JT | 7.7 JT | 13 JT | 1.8 JT | 0.046 UT | 11 JT | 3.7 JT | 0.046 UT | 3.4 JT | 12 JT | 5.1 JT | 2.8 T | 4.9 T | 2.5 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 3.7 JT | 17 T | 24 JT | 3.8 JT | 0.18 UT | 3.7 JT | 5.5 JT | 0.18 UT | 2.6 JT | 2.6 JT | 1.6 JT | 0.83 UT | 0.63 JT | 8.5 T |
| Toxaphene | 8001-35-2 | ug/kg | 72 U | 64 U | 54 U | 25 U | 3.4 U | 37 U | 29 U | 3.4 U | 29 U | 48 U | 51 U | 22 U | 24 U | 53 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.85 U | 3.9 J | 5.9 J | 0.61 J | 0.027 U | 3.2 NJ | 0.5 U | 0.027 U | 0.32 U | 0.89 U | 1.1 U | 0.49 | 0.98 | 0.97 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.18 U | 0.15 U | 0.34 J | 0.15 U | 0.034 U | 0.49 U | 0.18 U | 0.034 U | 0.15 U | 0.18 U | 0.19 U | 0.21 U | 0.44 | 0.083 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 290 J | 280 J | 270 J | 65 J | 1.6 JT | 320 J | 360 J | 62 J | 160 JT | 440 J | 150 J | 76 J | 89 J | 410 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 260 J | 240 J | 240 J | 55 J | 1.6 UT | 280 J | 320 J | 48 J | 130 JT | 360 J | 120 J | 62 J | 72 J | 340 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 670 J | 870 J | 670 J | 170 J | 5.6 JT | 710 J | 700 J | 150 J | 350 JT | 1000 J | 400 J | 380 J | 380 J | 1100 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 520 J | 600 J | 490 J | 110 J | 3.9 UT | 580 J | 550 J | 100 J | 250 JT | 780 J | 280 J | 220 J | 220 J | 820 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 960 JA | 1150 JA | 940 JA | 235 JA | 7.2 JA | 1030 JA | 1060 JA | 212 JA | 510 JA | 1440 JA | 550 JA | 456 JA | 469 JA | 1510 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 780 JA | 840 JA | 730 JA | 165 JA | 3.9 UA | 860 JA | 870 JA | 148 JA | 380 JA | 1140 JA | 400 JA | 282 JA | 292 JA | 1160 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.35 U | 0.43 U | 0.48 U | 0.3 U | 0.28 U | 0.35 U | 0.33 U | 0.28 U | 0.31 U | 0.35 U | 0.33 U | 0.44 U | 0.38 U | 0.36 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.28 U | 0.35 U | 0.31 U | 0.24 U | 0.23 U | 0.29 U | 0.27 U | 0.22 U | 0.25 U | 2.1 U | 1.1 U | 0.36 U | 0.31 U | 1.2 NJ |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 4.1 U | 11 U | 8.9 U | 7 U | 6.7 U | 3.6 U | 3 U | 6.5 U | 2.8 U | 3.8 U | 4 U | 4.4 U | 4 U | 2.5 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.52 J | 0.23 U | 0.5 NJ | 0.17 J | 0.15 U | 0.58 J | 0.17 U | 0.15 U | 0.25 NJ | 1.3 J | 0.95 J | 0.23 U | 0.2 U | 0.28 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 2 U | 11 U | 10 U | 2 U | 1 U | 20 U | 20 U | 1 U | 1 U | 1 U | 10 U | 1.1 U | 1 U | 10 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | 57 U | 55 U | 11 U | 5.5 U | 110 U | 110 U | 5.5 U | R | R | R | 5.8 U | 5.5 U | 55 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 34 U | 180 U | 170 U | 34 U | 17 U | 340 U | 340 U | 17 U | 17 U | 17 U | 170 U | 18 U | 17 UJ | 170 UJ |
| 2-Chlorophenol | 95-57-8 | ug/kg | 4 U | 21 U | 20 U | 4 U | 2 U | 40 U | 40 U | 2 U | 2 U | 2 U | 20 U | 2.1 U | 2 U | 20 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 3 U | 16 U | 15 U | 3 U | 1.5 U | 30 U | 30 U | 1.5 U | 1.5 U | 1.5 U | 15 U | 1.6 U | 1.5 U | 15 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 3 U | 16 U | 15 U | 3 U | 1.5 U | 30 U | 30 U | 1.5 U | 1.5 U | 1.5 U | 15 U | 1.6 U | 1.5 U | 15 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 2.8 U | 15 U | 14 U | 2.8 U | 1.4 U | 28 U | 28 U | 1.4 U | 1.4 U | 1.4 U | 14 U | 1.5 U | 1.4 U | 14 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 2.8 U | 15 U | 14 U | 2.8 U | 1.4 U | 28 U | 28 U | 1.4 U | 1.4 U | 1.4 U | 14 U | 1.5 U | 1.4 U | 14 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 9.2 J | 16 U | 15 U | 43 | 1.5 U | 30 U | 30 U | 8.3 | 14 | 36 | 22 J | 1.6 U | 8.7 J | 28 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 36 U | 190 U | 180 U | 36 U | 18 U | 360 U | 360 U | 18 U | 18 U | 18 U | 180 U | 19 U | 18 U | 180 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 4 J | 13 | 4.3 J | 0.98 J | 0.22 U | 1.9 J | 0.92 NJ | 0.21 U | 0.89 J | 2.8 J | 4.2 J | 0.34 U | 2.4 U | 9.1 J |
| Phenol | 108-95-2 | ug/kg | 4 U | 21 U | 20 U | 4 U | 6.8 U | 40 U | 40 U | 2 U | 2 U | 2 U | 20 U | 2.1 U | 2 U | 20 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 40 | 780 | 72 J | 14 U | 7 U | 140 U | 140 U | 7 U | 47 | 7 U | 70 U | 120 | 640 | 3500 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 6.4 U | 34 U | 32 U | 6.4 U | 3.2 U | 64 U | 64 U | 3.2 U | 3.2 U | 3.2 U | 32 U | 3.4 U | 11 | 32 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 16 U | 82 U | 79 U | 16 U | 7.9 U | 160 U | 160 U | 7.9 U | 10 | 10 | 79 U | 16 | 15 | 110 |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.6 U | 14 U | 13 U | 2.6 U | 1.3 U | 26 U | 26 U | 1.3 U | 4.6 U | 3.3 U | 13 U | 1.4 U | 3 J | 13 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 2 U | 11 U | 10 U | 2 U | 1 U | 20 U | 20 U | 1 U | 1 U | 1 U | 10 U | 1.1 U | 1 U | 10 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 3.4 U | 18 U | 17 U | 3.4 U | 1.7 U | 34 U | 34 U | 1.7 U | 1.7 U | 1.7 U | 17 U | 1.8 U | 1.7 U | 17 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 5.2 U | 27 U | 26 U | 5.2 U | 2.6 U | 52 U | 52 U | 2.6 U | 2.6 U | 2.6 U | 26 U | 2.8 U | 2.6 U | 26 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 5.8 U | 30 U | 29 U | 5.8 U | 2.9 U | 58 U | 58 U | 2.9 U | 2.9 U | 2.9 U | 29 U | 3.1 U | 2.9 U | 29 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 6 U | 32 U | 30 U | 6 U | 3 U | 60 U | 60 U | 3 U | 3 U | 3 U | 30 U | 3.2 U | 3 U | 30 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 5.8 U | 30 U | 29 U | 5.8 U | 2.9 U | 58 U | 58 U | 2.9 U | 2.9 U | 2.9 U | 29 U | 3.1 U | 2.9 U | 29 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 3 U | 16 U | 15 U | 3 U | 1.5 U | 30 U | 30 U | 1.5 U | 1.5 U | 1.5 U | 15 U | 1.6 U | 1.5 U | 15 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 4 U | 21 U | 20 U | 4 U | 2 U | 40 U | 40 U | 2 U | 2 U | 2 U | 20 U | 2.1 U | 2 U | 20 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 3.2 U | 17 U | 16 U | 3.2 U | 1.6 U | 32 U | 32 U | 1.6 U | 1.6 U | 1.6 U | 16 U | 1.7 U | 1.6 U | 16 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 6.4 U | 34 U | 32 U | 6.4 U | 3.2 U | 64 U | 64 U | 3.2 U | 3.2 U | 3.2 U | 32 U | 3.4 U | 3.2 U | 32 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 7.4 U | 39 U | 37 U | 7.4 U | 3.7 U | 74 U | 74 U | 3.7 U | R | 3.7 U | 37 U | 3.9 U | 3.7 U | 37 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 5 U | 26 U | 25 U | 5 U | 2.5 U | 50 U | 50 U | 2.5 U | 2.5 U | 2.5 U | 25 U | 2.7 U | 2.5 U | 25 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 3.2 U | 17 U | 16 U | 3.2 U | 1.6 U | 32 U | 32 U | 1.6 U | 1.6 U | 1.6 U | 16 U | 1.7 U | 1.6 U | 16 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 3.8 U | 20 U | 19 U | 3.8 U | 1.9 U | 38 U | 38 U | 1.9 U | 1.9 UJ | 1.9 U | 19 U | 2 U | 1.9 U | 19 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 2.8 U | 15 U | 14 U | 2.8 U | 1.4 U | 28 U | 28 U | 1.4 U | 1.4 U | 1.4 U | 14 U | 1.5 U | 1.4 U | 14 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 3.6 U | 19 U | 18 U | 3.6 U | 1.8 U | 36 U | 36 U | 1.8 U | 1.8 U | 1.8 U | 18 U | 1.9 U | 1.8 U | 18 U |
| Aniline | 62-53-3 | ug/kg | 3 U | 16 U | 15 U | 3 U | 1.5 U | 30 U | 30 U | 1.5 U | R | 1.5 U | 15 U | 1.6 U | 1.5 U | 15 U |
| Azobenzene | 103-33-3 | ug/kg | 2.2 U | 12 U | 11 U | 2.2 U | 1.1 U | 22 U | 22 U | 1.1 U | 1.1 UJ | 1.1 U | 11 U | 1.2 U | 1.1 U | 11 U |
| Benzoic acid | 65-85-0 | ug/kg | 200 U | 1000 U | 960 U | 200 U | 96 U | 2000 U | 2000 U | 96 U | 96 U | 96 U | 960 U | 110 U | 160 J | 960 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 4.2 U | 22 U | 21 U | 4.2 U | 2.1 U | 42 U | 42 U | 2.1 U | 2.1 U | 2.1 U | 21 U | 2.2 U | 6.5 J | 21 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 3 U | 16 U | 15 U | 3 U | 1.5 U | 30 U | 30 U | 1.5 U | 1.5 U | 1.5 U | 15 U | 1.6 U | 1.5 U | 15 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 3.8 U | 20 U | 19 U | 3.8 U | 1.9 U | 38 U | 38 U | 1.9 U | 1.9 U | 1.9 U | 19 U | 2 U | 1.9 U | 19 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 5.2 U | 27 U | 26 U | 5.2 U | 2.6 U | 52 U | 52 U | 2.6 U | 2.6 U | 2.6 U | 26 U | 2.8 U | 2.6 U | 26 U |
| Carbazole | 86-74-8 | ug/kg | 2.6 U | 25 J | 13 U | 2.6 U | 1.3 U | 26 U | 26 U | 1.3 U | 1.3 U | 1.3 U | 13 U | 1.4 U | 3.8 J | 77 J |
| Dibenzofuran | 132-64-9 | ug/kg | 4.5 | 13 | 8.4 | 4.3 | 0.59 U | 9.7 | 8.7 | 2.2 | 5.7 | 12 | 5.3 | 1.1 J | 4 | 41 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.27 UJ | 13 U | 0.23 U | 0.068 U | 0.068 U | 0.16 U | 0.085 U | 0.068 U | 0.15 UJ | 0.19 UJ | 0.17 UJ | 0.072 U | 0.11 U | 0.068 U |

Table 4-2. Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID: | LW3-C701-E | LW3-C702-B | LW3-C702-C | LW3-C702-D | LW3-C702-F | LW3-C703-B | LW3-C703-C | LW3-C703-D | LW3-C704-B | LW3-C704-C | LW3-C704-D | LW3-C706-B | LW3-C706-C | LW3-C706-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm): | 286 - 375 | 30 - 152 | 152 - 275 | 275 - 344 | 402 - 485 | 30 - 152 | 152 - 240 | 240 - 303 | 30 - 125 | 125 - 247 | 247 - 362 | 30 - 152 | 152 - 253 | 253 - 333 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.26 U | 0.39 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.37 U | 0.31 U | 0.39 U | 0.27 J | 0.25 J | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 58 U | 300 U | 290 U | 58 U | 29 U | 580 U | 580 U | 29 U | 29 U | 29 U | 290 U | 31 U | 29 U | 290 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.2 U | 0.17 U | 0.16 U | 0.16 U | 0.16 U | 0.27 U | 0.16 U | 0.16 U | 0.16 UJ | 0.16 U | 0.16 U | 0.33 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 2 U | 11 U | 10 U | 2 U | 1 U | 20 U | 20 U | 1 U | 1 U | 1 U | 10 U | 1.1 U | 1 U | 10 U |
| Nitrobenzene | 98-95-3 | ug/kg | 4.4 U | 23 U | 22 U | 4.4 U | 2.2 U | 44 U | 44 U | 2.2 U | 2.2 U | 2.2 U | 22 U | 2.4 U | 2.2 U | 22 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 13 U | 64 U | 61 U | 13 U | 6.1 U | 130 U | 130 U | 6.1 U | 6.1 UJ | 6.1 U | 61 U | 6.4 U | 6.1 U | 61 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 3.2 U | 17 U | 16 U | 3.2 U | 1.6 U | 32 U | 32 U | 1.6 U | 1.6 U | 1.6 U | 16 U | 1.7 U | 1.6 U | 52 J |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 4.8 U | 25 U | 24 U | 4.8 U | 2.4 U | 48 U | 48 U | 2.4 U | 2.4 U | 2.4 U | 24 U | 2.6 U | 2.4 U | 24 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C706-E | LW3-C708-B | LW3-C708-C | LW3-C708-D | LW3-C708-F | LW3-C708-G | LW3-C709-B | LW3-C712-B | LW3-C712-C | LW3-C714-B | LW3-C717-B | LW3-C720-B | LW3-C721-B | LW3-C721-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 333 - 402 | 30 - 150 | 150 - 236 | 236 - 305 | 380 - 496 | 496 - 544 | 30 - 152 | 30 - 151 | 151 - 257 | 30 - 146 | 30 - 148 | 30 - 152 | 30 - 151 | 151 - 271 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 0.73 U | 4.1 U | 5 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.7 U | 1.8 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 0.73 U | 4.1 U | 5 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 4.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 0.73 U | 4.1 U | 5 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 3.1 U | 1.9 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 0.88 U | 270 | 5 U | 3.7 U | 0.73 U | 0.73 U | 2 J | 5 U | 2.3 U | 1.3 U | 7.1 | 3.5 J | 3.8 J | 30 J |
| Aroclor 1248 | 12672-29-6 | ug/kg | 0.73 U | 4.1 U | 5 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 0.82 J | 2000 | 1400 | 93 | 0.73 U | 0.73 U | 6.2 | 18 J | 1.3 U | 15 J | 14 J | 13 J | 5.1 J | 29 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 0.73 U | 590 NJ | 5 U | 3.7 U | 0.73 U | 0.73 U | 9.2 | 12 | 2.7 U | 20 | 9.4 J | 17 J | 4.5 J | 21 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 0.73 U | 4.1 U | 5 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 0.73 U | 4.1 U | 5 U | 3.7 U | 0.73 U | 0.73 U | 1.3 U | 3.8 NJ | 1.6 NJ | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U |
| Aroclors | 12767-79-2 | ug/kg | 0.82 JT | 2860 JT | 1400 T | 93 T | 0.73 UT | 0.73 UT | 17.4 JT | 33.8 JT | 1.6 JT | 35 JT | 30.5 JT | 33.5 JT | 13.4 JT | 80 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 3.04 | 1.73 | 2.29 | 1.94 | 2.28 T | 2.35 | 1.62 | 1.6 | 1.7 | 1.58 T | 1.66 | 1.63 | 1.76 | 1.56 |
| Total organic carbon | TOC | percent | 0.04 J | 2.26 | 2.44 | 0.51 | 0.45 | 0.05 J | 1.98 | 2.35 | 2.26 | 1.91 T | 2.04 | 2.23 | 1.93 | 1.89 |
| Total solids | TSO | percent | 78.9 | 45.1 | 54.5 | 68.3 | 70.2 | 74.2 | 50 | 58.8 | 60.6 | 55.4 T | 50.6 | 53.6 | 51.9 | 56.6 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | 0.521 J | 0.719 |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | 1.03 J | 2.63 J |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | 16 | 32.6 |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | 94.5 | 202 |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | 485 | 1140 |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | 3.31 | 7.95 |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | 5.58 | 11.3 |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | 12.4 | 28.5 |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | 27.1 | 53 |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | 32.9 | 60.1 |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | 678 JT | 1540 JT |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | 0.215 U | 0.342 U |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | 0.324 J | 0.465 J |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | 0.537 J | 0.535 J |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | 2.24 J | 3.7 |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | 1.57 J | 2.03 J |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | 44.4 | 85.3 |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | 0.0797 U | 0.686 |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | 0.19 J | 0.327 U |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | 0.254 J | 0.444 J |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | 0.683 J | 1.46 J |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | 0.434 J | 1.13 J |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | 0.0849 U | 0.169 U |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | 0.53 J | 1.05 J |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | 7.32 | 13.6 |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | 0.56 U | 1.02 J |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | 1.68 JT | 3.02 JT |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | 137 JA | 165 A | 2.88 A | 0.0039 JA | 0.00211 JA | | 0.764 A | 0.00477 JA | | | | 2.34 JT | 4.59 JT |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 0 T | 0 | 0 | 0 | 0 | 0.19 | 0.79 | 0.11 | 0.01 T | 0.32 | 0.58 | 0.21 | 0 |
| Fine gravel | GS_FG | percent | 0.05 | 0.0167 T | 0.01 | 0.6 | 0 | 0.13 | 1.51 | 5.2 | 2.2 | 0.33 T | 2.4 | 7.7 | 1.5 | 0.37 |
| Very coarse sand | GS_VCS | percent | 1.02 | 0.85 T | 0.29 | 0.26 | 0.01 | 0.56 | 1.49 | 3.53 | 1.69 | 0.49 T | 1.13 | 5.36 | 1.72 | 1.03 |
| Coarse sand | GS_CS | percent | 22.3 | 2.53 T | 3.17 | 1.82 | 0.12 | 0.16 | 1 | 1.82 | 0.96 | 2.84 T | 0.73 | 2.44 | 1.02 | 1.27 |
| Medium sand | GS_MS | percent | 55.6 | 5.07 T | 10.9 | 10 | 1.01 | 36.5 | 0.85 | 1.51 | 1 | 9.04 T | 0.95 | 1.77 | 1.13 | 1.41 |
| Fine sand | GS_FS | percent | 18.7 | 6.1 T | 11.4 | 25.1 | 17.9 | 56.8 | 4.58 | 4.33 | 4.28 | 7.76 T | 2.8 | 6.81 | 3.05 | 3.41 |
| Very fine sand | GS_VFS | percent | 1.95 | 5.05 T | 8 | 17.8 | 22.5 | 4.51 | 15 | 10.5 | 12.9 | 15 T | 11.9 | 14 | 11.3 | 11.7 |
| Fines | GS_FINES | percent | 0.78 T | 82.3 JT | 72.5 T | 49.5 T | 53.9 T | 3.34 T | 78.9 T | 74.1 T | 77.4 T | 65.4 T | 82.7 T | 65.3 T | 81.5 T | 80.7 T |
| Coarse silt | GS_CSILT | percent | 0.25 | 7.09 JT | 5.95 | 17.3 | 21.3 | 1.13 | 27 | 15.6 | 18.5 | 23.6 T | 54.4 | 23.1 | 23 | 15.1 |
| Medium silt | GS_MSILT | percent | 0.15 | 17.7 T | 16.1 | 14.6 | 12.9 | 0.59 | 18.4 | 17.2 | 15.7 | 13 T | 8.9 | 16.3 | 20.1 | 23.3 |
| Fine silt | GS_FSILT | percent | 0.03 | 18.9 T | 18 | 7.79 | 8.28 | 0.52 | 12.2 | 15.8 | 14.8 | 9.94 T | 7.95 | 9.43 | 13.9 | 15.6 |
| Very fine silt | GS_VFSILT | percent | 0.15 | 15.3 T | 13.7 | 3.11 | 3.65 | 0.4 | 7.32 | 8.72 | 9.19 | 6.65 T | 5.2 | 6.59 | 7.99 | 8.92 |
| 8-9 Phi clay | GS_CCLAY | percent | 0.02 | 10.4 JT | 10.4 | 2.28 | 2.31 | 0.34 | 5.43 | 7.47 | 7.35 | 4.23 T | 1.32 | 3.85 | 6.31 | 6.49 |
| >9 Phi clay | GS_MFCLAY | percent | 0.18 | 12.9 T | 8.37 | 4.42 | 5.44 | 0.36 | 8.56 | 9.31 | 11.9 | 7.95 T | 4.9 | 6.02 | 10.2 | 11.3 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 13400 | 36800 | 26700 | 22800 | 25100 | 13800 | 28900 | 30400 | 25800 | 21900 T | 25400 | 33700 | 36800 | 35100 |
| Antimony | 7440-36-0 | mg/kg | 0.17 J | 2.92 J | 6.59 J | 0.37 J | 0.17 J | 0.22 J | 0.4 J | 0.3 J | 0.28 J | 0.425 JT | 0.27 J | 0.39 J | 0.42 J | 1.72 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C706-E | LW3-C708-B | LW3-C708-C | LW3-C708-D | LW3-C708-F | LW3-C708-G | LW3-C709-B | LW3-C712-B | LW3-C712-C | LW3-C714-B | LW3-C717-B | LW3-C720-B | LW3-C721-B | LW3-C721-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 333 - 402 | 30 - 150 | 150 - 236 | 236 - 305 | 380 - 496 | 496 - 544 | 30 - 152 | 30 - 151 | 151 - 257 | 30 - 146 | 30 - 148 | 30 - 152 | 30 - 151 | 151 - 271 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 1.62 | 13.3 | 51.4 | 8.57 | 3.13 | 1.89 | 3.56 | 2.96 | 2.82 | 4.83 T | 4.51 | 4.3 | 3.77 | 4.16 |
| Cadmium | 7440-43-9 | mg/kg | 0.048 | 0.764 | 1.25 | 0.175 | 0.082 | 0.052 | 0.239 | 0.381 | 0.323 | 0.22 T | 0.202 | 0.24 | 0.186 | 0.312 |
| Chromium | 7440-47-3 | mg/kg | 13.8 | 180 | 134 | 27 | 23.9 | 13.3 | 27.8 | 25.4 | 24.6 | 23.3 T | 42.7 | 30.5 | 30.2 | 28.2 |
| Copper | 7440-50-8 | mg/kg | 14.9 | 1570 | 2510 | 103 | 29.8 | 17.3 | 43.1 | 43.8 | 44.2 | 58.5 JT | 51.5 J | 47 | 40.2 | 46.5 |
| Lead | 7439-92-1 | mg/kg | 3 | 633 | 711 | 39.1 | 4.87 | 3.04 | 16.6 | 25.8 | 23.9 | 19.5 JT | 13.9 J | 20.4 | 13.9 | 25.6 |
| Mercury | 7439-97-6 | mg/kg | 0.015 | 4.88 | 16.8 | 0.938 | 0.034 | 0.011 J | 0.057 | 0.265 J | 0.19 J | 0.073 T | 0.065 | 0.071 | 0.06 | 0.107 |
| Nickel | 7440-02-0 | mg/kg | 17.8 | 57.3 | 31.2 | 25.7 | 27.8 | 24.2 | 23.1 | 27 | 25.7 | 21.4 JT | 31.2 J | 26 | 23.9 | 23.7 |
| Silver | 7440-22-4 | mg/kg | 0.103 | 1.34 | 1.39 | 0.275 | 0.174 | 0.107 | 0.72 | 0.48 | 0.47 | 0.235 T | 0.21 | 0.707 | 0.486 | 0.559 |
| Zinc | 7440-66-6 | mg/kg | 58.5 | 986 | 1100 | 118 | 74.3 | 64.5 | 123 | 123 | 107 | 145 JT | 88.1 J | 134 | 115 | 178 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 0.31 U | 200 | 510 | 5.3 | 0.34 J | 0.31 U | 1.2 J | 9.5 | 17 | 3.7 J | 1.8 J | 2.4 | 1.5 J | 4.7 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 0.39 U | 230 | 260 | 10 | 0.41 J | 0.39 U | 2.1 J | 17 | 30 | 4.7 J | 2.6 | 4 | 2.5 | 8.8 |
| Acenaphthene | 83-32-9 | ug/kg | 0.23 U | 850 | 610 | 18 | 0.32 J | 0.23 U | 1.5 J | 12 | 38 | 5.8 | 3.2 | 4.4 | 3.3 | 12 |
| Acenaphthylene | 208-96-8 | ug/kg | 0.4 J | 120 | 110 | 6.1 | 0.24 U | 0.24 U | 1.8 J | 19 | 33 | 1.9 J | 2.3 J | 4.3 | 2.8 | 6 |
| Anthracene | 120-12-7 | ug/kg | 0.53 J | 1600 | 1100 | 14 | 0.47 U | 0.47 J | 1.7 J | 18 | 46 | 8.6 | 3.8 | 4.7 | 2.9 | 11 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 2.4 | 3600 | 4100 | 130 | 1.9 | 1.8 | 11 | 47 | 79 | 26 | 12 | 25 | 11 | 32 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 2.4 | 3200 | 3300 | 120 | 1.5 J | 1.2 J | 12 | 64 | 100 | 27 J | 15 | 30 | 13 | 37 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 3.1 | 4400 | 4700 | 160 | 2.1 | 3.9 | 18 | 75 | 110 | 39 J | 21 | 43 | 19 | 51 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 2.1 | | | | | | 11 | | | 22 J | 13 | 25 | 14 | 31 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 2.2 | 1900 | 2100 | 89 | 1.1 J | 1.7 J | 11 | 76 | 98 | 23 | 16 | 26 | 12 | 29 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 1.4 J | 1600 | 1500 | 48 | 0.75 J | 1.7 J | 5.9 | 27 | 37 | 13 | 5.9 | 13 | 5.6 | 18 |
| Chrysene | 218-01-9 | ug/kg | 3.2 | 3800 | 4600 | 170 | 1.8 | 2.6 | 14 | 68 | 90 | 29 J | 17 | 33 | 14 | 43 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 0.47 J | 530 | 540 | 19 | 0.28 U | 0.8 J | 2.1 J | 6.2 | 9.9 | 4.3 | 2.2 J | 4.4 | 1.9 J | 4.4 |
| Dibenzothiophene | 132-65-0 | ug/kg | 0.21 U | 400 | 690 | 23 | 0.21 U | 0.21 J | 0.81 J | 7.2 | 13 | 3.2 | 1.3 J | 2.1 J | 1.6 J | 6.1 |
| Fluoranthene | 206-44-0 | ug/kg | 3.2 | 9500 | 9900 | 320 | 3.6 | 3.2 | 26 | 180 | 270 | 62 J | 36 | 56 | 28 | 80 |
| Fluorene | 86-73-7 | ug/kg | 0.5 U | 1100 | 1000 | 23 | 0.56 J | 0.5 U | 2 J | 16 | 30 | 7.2 | 3.1 | 5 | 2.8 | 9 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 2.3 | 2500 | 2500 | 89 | 1.2 J | 1.7 J | 11 | 61 | 85 | 25 | 16 | 27 | 12 | 30 |
| Naphthalene | 91-20-3 | ug/kg | 0.77 J | 130 | 150 | 12 | 0.78 J | 1.3 J | 6.8 | 48 | 110 | 8.6 J | 7.7 | 17 | 15 | 18 |
| Perylene | 198-55-0 | ug/kg | 1.5 J | | | | | | 33 | | | 34 | 26 | 33 | 52 | 110 |
| Phenanthrene | 85-01-8 | ug/kg | 2.3 | 7100 | 8700 | 310 | 2.7 | 2 | 13 | 130 | 210 | 47 J | 22 | 33 | 16 | 52 |
| Pyrene | 129-00-0 | ug/kg | 4 | 6600 | 9500 | 380 | 3.3 | 2.9 | 27 | 200 | 290 | 53 J | 35 | 51 | 28 | 79 |
| High Molecular Weight PAH | HPAH | ug/kg | 25 JT | 38000 T | 43000 T | 1500 T | 17 JT | 22 JT | 140 JT | 800 T | 1200 T | 300 JT | 180 JT | 310 T | 140 JT | 400 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 4 JT | 11000 T | 12000 T | 390 T | 4.8 JT | 3.8 JT | 29 JT | 260 T | 500 T | 84 JT | 45 JT | 72 T | 45 T | 120 T |
| Total PAHs | 130498-29-2 | ug/kg | 29 JT | 49000 T | 55000 T | 1900 T | 22 JT | 25 JT | 170 JT | 1100 T | 1700 T | 390 JT | 220 JT | 380 T | 190 JT | 520 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 0.21 U | | | | | | 2.8 | | | 5.9 | 3.1 | 7.9 | 3.2 | 22 |
| C1-Chrysene | C1_218-01-9 | ug/kg | 1.9 | | | | | | 8.6 | | | 30 J | 9.2 | 33 | 13 J | 34 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 0.5 U | | | | | | 2.4 J | | | 4.3 | 2.1 J | 4.3 | 3.3 | 10 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 3 | | | | | | 16 | | | 32 | 20 | 36 | 16 | 49 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 1.8 | | | | | | 10 | | | 25 | 13 | 25 | 12 | 41 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 0.21 U | | | | | | 5.6 | | | 16 | 6.9 | 16 | 6.8 | 26 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 0.87 J | | | | | | 12 | | | 23 | 10 | 27 | 12 | 26 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 0.72 J | | | | | | 4 | | | 9.3 | 5.1 | 11 | 7.5 | 22 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 0.47 J | | | | | | 4.4 | | | 8.7 | 5 | 9.1 | 5.3 | 26 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 1.7 | | | | | | 17 | | | 28 | 17 | 28 | 14 | 54 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 0.21 U | | | | | | 4.7 | | | 16 | 7.4 | 17 | 6.9 | 30 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 0.25 U | | | | | | 13 | | | 16 | 12 | 25 | 12 | 27 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 0.5 U | | | | | | 10 | | | 13 | 8.9 | 23 | 9.3 | 37 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 0.48 J | | | | | | 5.1 | | | 9.5 | 5.6 | 12 | 6.3 | 29 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 2 | | | | | | 16 | | | 25 | 16 | 42 | 14 | 67 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | | | | | | 0.25 U | | | 0.25 U | 0.25 U | 19 | 0.25 U | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 0.37 U | | | | | | 7.8 | | | 14 | 8.1 | 15 | 9 | 61 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 0.75 U | | | | | | 11 | | | 18 | 10 | 30 | 0.75 U | 32 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 2.5 | | | | | | 14 | | | 27 | 16 | 30 | 16 | 35 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 0.61 U | | | | | | 14 | | | 15 | 11 | 29 | 8.2 | 25 |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | 5320 T | 850 | 16.6 | 4.94 U | 4.99 U | | 6.9 | 4.88 U | | | | 12.1 | 50.5 |
| PCB002 | 2051-61-8 | pg/g | | 599 T | 87.1 | 5.02 U | 4.94 U | 4.99 U | | 11.7 | 5.97 | | | | 15 | 26.4 |
| PCB003 | 2051-62-9 | pg/g | | 2650 T | 411 | 13.8 | 4.94 U | 4.99 U | | 11.3 | 6.31 | | | | 20.6 | 54.2 |
| PCB004 & 010 | PCB004_010 | pg/g | | 5090 T | 2380 | 41.9 | 9.88 U | 9.97 U | | 9.66 U | 9.77 U | | | | 43.7 | 176 |
| PCB005 & 008 | PCB005_008 | pg/g | | 15300 T | 8680 | 283 | 9.88 U | 9.97 U | | 21 | 9.77 U | | | | 173 | 930 |
| PCB006 | 25569-80-6 | pg/g | | 3150 T | 1230 | 34.3 | 9.88 U | 9.97 U | | 9.66 U | 9.77 U | | | | 38.1 | 188 |
| PCB007 & 009 | PCB007_009 | pg/g | | 1650 T | 483 | 10 U | 9.88 U | 9.97 U | | 9.66 U | 9.77 U | | | | 11.1 UJ | 72.8 |
| PCB011 | 2050-67-1 | pg/g | | 253 T | 98.9 U | 10 U | 9.88 U | 9.97 U | | 11.1 | 9.77 U | | | | 119 | 133 |
| PCB012 & 013 | PCB012_013 | pg/g | | 998 T | 293 | 14.9 | 9.88 U | 9.97 U | | 9.66 U | 9.77 U | | | | 13.3 UJ | 85.4 |
| PCB014 | 34883-41-5 | pg/g | | 49.1 UT | 98.9 U | 10 U | 9.88 U | 9.97 U | | 9.66 U | 9.77 U | | | | 9.8 U | 10 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C706-E | LW3-C708-B | LW3-C708-C | LW3-C708-D | LW3-C708-F | LW3-C708-G | LW3-C709-B | LW3-C712-B | LW3-C712-C | LW3-C714-B | LW3-C717-B | LW3-C720-B | LW3-C721-B | LW3-C721-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 333 - 402 | 30 - 150 | 150 - 236 | 236 - 305 | 380 - 496 | 496 - 544 | 30 - 152 | 30 - 151 | 151 - 257 | 30 - 146 | 30 - 148 | 30 - 152 | 30 - 151 | 151 - 271 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | 6140 T | 2520 | 78.9 | 9.88 U | 9.97 U | | 10.5 | 9.77 U | | | | 160 | 501 |
| PCB016 & 032 | PCB016_032 | pg/g | | 23900 T | 25400 | 1100 | 6.54 | 4.99 U | | 21.8 | 5.96 | | | | 269 | 1180 |
| PCB017 | 37680-66-3 | pg/g | | 18000 T | 18800 | 976 | 4.94 U | 4.99 U | | 15.6 | 4.88 U | | | | 188 | 960 |
| PCB018 | 37680-65-2 | pg/g | | 42700 T | 50300 | 1980 | 9.99 | 6.03 | | 34.1 | 6.97 | | | | 426 | 1930 |
| PCB019 | 38444-73-4 | pg/g | | 2930 T | 2950 | 98.9 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 37.5 | 144 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | 29900 T | 33300 | 1350 | 6.79 | 6.46 | | 46.8 | 13.2 | | | | 350 | 1970 |
| PCB022 | 38444-85-8 | pg/g | | 17500 T | 19300 | 669 | 4.94 U | 4.99 U | | 16.3 | 5.62 | | | | 198 | 902 |
| PCB023 | 55720-44-0 | pg/g | | 52.5 T | 62.4 | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB024 & 027 | PCB024_027 | pg/g | | 2180 T | 1870 | 69.4 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 31.3 | 126 |
| PCB025 | 55712-37-3 | pg/g | | 3260 T | 2440 | 106 | 4.94 U | 4.99 U | | 7.41 | 4.88 U | | | | 61.4 | 316 |
| PCB026 | 38444-81-4 | pg/g | | 5910 T | 5810 | 192 | 4.94 U | 4.99 U | | 12.6 | 4.88 U | | | | 95.1 | 447 |
| PCB028 | 7012-37-5 | pg/g | | 56700 T | 70500 | 3270 | 23.2 | 14.3 | | 69.4 | 17.2 | | | | 660 | 3410 |
| PCB029 | 15862-07-4 | pg/g | | 217 T | 108 | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 16.3 |
| PCB030 | 35693-92-6 | pg/g | | 20.3 JT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB031 | 16606-02-3 | pg/g | | 50500 T | 60600 | 2490 | 12.3 | 9.3 | | 50.4 | 11.1 | | | | 521 | 2640 |
| PCB034 | 37680-68-5 | pg/g | | 732 T | 708 | 47.2 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 6.57 | 43.3 |
| PCB035 | 37680-69-6 | pg/g | | 532 T | 229 | 12.7 | 4.94 U | 4.99 U | | 4.98 | 4.88 U | | | | 10.3 | 41.2 |
| PCB036 | 38444-87-0 | pg/g | | 25.3 JT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB037 | 38444-90-5 | pg/g | | 12900 T | 10200 | 442 | 7 | 4.99 U | | 20.5 | 6.94 | | | | 214 | 849 |
| PCB038 | 53555-66-1 | pg/g | | 977 T | 1080 | 132 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 6.98 | 37.7 |
| PCB039 | 38444-88-1 | pg/g | | 278 T | 166 | 30.7 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 25 |
| PCB040 | 38444-93-8 | pg/g | | 6940 T | 4830 | 583 | 4.94 U | 4.99 U | | 15.4 | 4.88 U | | | | 117 | 502 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | 91500 T | 111000 | 3750 | 16.9 | 12.4 | | 130 | 19.6 | | | | 591 | 2600 |
| PCB042 & 059 | PCB042_059 | pg/g | | 32500 T | 23100 | 1550 | 6.06 | 4.99 U | | 34 | 6.35 | | | | 219 | 1020 |
| PCB043 & 049 | PCB043_049 | pg/g | | 150000 T | 145000 | 6230 | 25.1 | 13.9 | | 234 | 33.6 | | | | 581 | 3040 |
| PCB044 | 41464-39-5 | pg/g | | 153000 T | 193000 | 5260 | 26.2 | 14.5 | | 211 | 29 | | | | 677 | 2970 |
| PCB045 | 70362-45-7 | pg/g | | 10700 T | 13800 | 488 | 4.94 U | 4.99 U | | 7.86 | 4.88 U | | | | 93 | 440 |
| PCB046 | 41464-47-5 | pg/g | | 5240 T | 6010 | 222 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 40.4 | 192 |
| PCB047 | 2437-79-8 | pg/g | | 43100 T | 38700 | 2330 | 7.84 | 4.99 U | | 54.6 | 9.63 | | | | 205 | 1130 |
| PCB048 & 075 | PCB048_075 | pg/g | | 21100 T | 22200 | 885 | 4.94 U | 4.99 U | | 22.2 | 4.88 U | | | | 143 | 668 |
| PCB050 | 62796-65-0 | pg/g | | 404 T | 351 | 17 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 14.2 |
| PCB051 | 68194-04-7 | pg/g | | 4420 T | 4230 | 170 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 39.5 | 169 |
| PCB052 & 069 | PCB052_069 | pg/g | | 237000 T | 304000 | 7780 | 34.7 | 20.4 | | 412 | 49.2 | | | | 748 | 3200 |
| PCB053 | 41464-41-9 | pg/g | | 14800 T | 16100 | 562 | 4.94 U | 4.99 U | | 14.8 | 4.88 U | | | | 99.4 | 437 |
| PCB054 | 15968-05-5 | pg/g | | 195 T | 189 | 8.43 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 8.46 |
| PCB055 | 74338-24-2 | pg/g | | 1710 T | 2200 | 68 | 4.94 U | 4.99 U | | 6.61 | 4.88 U | | | | 10.6 | 36.1 |
| PCB056 & 060 | PCB056_060 | pg/g | | 51200 T | 69600 | 1830 | 16.3 | 8.82 UJ | | 105 | 16.7 | | | | 396 | 1540 |
| PCB057 | 70424-67-8 | pg/g | | 520 T | 460 | 22.5 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 18.8 |
| PCB058 | 41464-49-7 | pg/g | | 1490 T | 940 | 74.9 | 4.94 U | 4.99 U | | 5.2 | 4.88 U | | | | 4.9 U | 30.3 |
| PCB061 & 070 | PCB061_070 | pg/g | | 205000 T | 261000 | 7730 | 52.9 | 29.6 | | 453 | 58.4 | | | | 845 | 3820 |
| PCB062 | 54230-22-7 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB063 | 74472-34-7 | pg/g | | 6470 T | 6130 | 248 | 4.94 U | 4.99 U | | 12.8 | 4.88 U | | | | 28.3 | 128 |
| PCB065 | 33284-54-7 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB066 & 076 | PCB066_076 | pg/g | | 135000 T | 146000 | 6660 | 42.5 | 23.2 | | 216 | 30.5 | | | | 687 | 3290 |
| PCB067 | 73575-53-8 | pg/g | | 1800 T | 1950 | 58.5 | 4.94 U | 4.99 U | | 5 | 4.88 U | | | | 23 | 92.4 |
| PCB068 | 73575-52-7 | pg/g | | 3810 T | 1760 | 180 | 4.94 U | 4.99 U | | 8.8 | 4.88 U | | | | 9.64 | 100 |
| PCB073 | 74338-23-1 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB074 | 32690-93-0 | pg/g | | 57800 T | 75900 | 2390 | 16.7 | 8.97 | | 93.6 | 13.5 | | | | 330 | 1480 |
| PCB077 | 32598-13-3 | pg/g | | 6970 T | 6550 | 234 | 4.44 U | 3.69 U | | 12.4 | 4.02 J | | | | 68.3 | 280 |
| PCB078 | 70362-49-1 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB079 | 41464-48-6 | pg/g | | 4700 T | 4940 | 234 | 4.94 U | 4.99 U | | 16.4 | 4.88 U | | | | 16.2 | 83.1 |
| PCB080 | 33284-52-5 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB081 | 70362-50-4 | pg/g | | 346 JT | 650 | 11.9 | 1.27 U | 1.03 U | | 5 | 1.22 U | | | | 1.57 J | 9.89 |
| PCB082 | 52663-62-4 | pg/g | | 36500 T | 53400 | 669 | 4.94 U | 4.99 U | | 104 | 10.1 | | | | 120 | 5.01 U |
| PCB083 | 60145-20-2 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB084 & 092 | PCB084_092 | pg/g | | 190000 T | 208000 | 5750 | 30.6 | 16.1 | | 525 | 53.7 | | | | 447 | 1760 |
| PCB085 & 116 | PCB085_116 | pg/g | | 51400 T | 74100 | 1180 | 8.68 | 4.99 U | | 157 | 16.9 | | | | 174 | 543 |
| PCB086 | 55312-69-1 | pg/g | | 926 T | 1290 | 12.8 | 4.94 U | 4.99 U | | 5.09 | 4.88 U | | | | 4.9 U | 15.4 |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | 125000 T | 183000 | 2250 | 20.2 | 11.4 | | 370 | 33.5 | | | | 336 | 965 |
| PCB088 & 091 | PCB088_091 | pg/g | | 52700 T | 62700 | 1930 | 8.78 | 4.99 U | | 156 | 20.2 | | | | 170 | 824 |
| PCB089 | 73575-57-2 | pg/g | | 3160 T | 3940 | 106 | 4.94 U | 4.99 U | | 6.43 | 4.88 U | | | | 12.7 | 48.2 |
| PCB090 & 101 | PCB090_101 | pg/g | | 465000 T | 511000 | 13700 | 76.6 | 40.4 | | 1450 | 131 | | | | 1060 | 4210 |
| PCB093 | 73575-56-1 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB094 | 73575-55-0 | pg/g | | 1870 T | 1750 | 52.5 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 6.8 UJ | 25.7 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | 364000 T | 405000 | 10500 | 56.8 | 28.3 | | 987 | 88.9 | | | | 805 | 3250 |
| PCB096 | 73575-54-9 | pg/g | | 2910 T | 2810 | 85.9 | 4.94 U | 4.99 U | | 5.38 | 4.88 U | | | | 11.2 | 46.9 |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C706-E | LW3-C708-B | LW3-C708-C | LW3-C708-D | LW3-C708-F | LW3-C708-G | LW3-C709-B | LW3-C712-B | LW3-C712-C | LW3-C714-B | LW3-C717-B | LW3-C720-B | LW3-C721-B | LW3-C721-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 333 - 402 | 30 - 150 | 150 - 236 | 236 - 305 | 380 - 496 | 496 - 544 | 30 - 152 | 30 - 151 | 151 - 257 | 30 - 146 | 30 - 148 | 30 - 152 | 30 - 151 | 151 - 271 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | 124000 T | 152000 | 3750 | 23.1 | 11.1 UJ | | 311 | 32.4 | | | | 302 | 1070 |
| PCB099 | 38380-01-7 | pg/g | | 198000 T | 208000 | 7810 | 38.3 | 20 | | 555 | 63.4 | | | | 502 | 2220 |
| PCB100 | 39485-83-1 | pg/g | | 2330 T | 1500 | 120 | 4.94 U | 4.99 U | | 6.98 | 4.88 U | | | | 10.9 | 90.9 |
| PCB103 | 60145-21-3 | pg/g | | 8040 T | 3940 | 302 | 4.94 U | 4.99 U | | 26.5 | 4.88 U | | | | 19.6 | 138 |
| PCB104 | 56558-16-8 | pg/g | | 22.8 JT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB105 | 32598-14-4 | pg/g | | 77800 T | 118000 | 1440 | 22.4 | 13.9 | | 305 | 25.1 | | | | 260 | 711 |
| PCB106 & 118 | PCB106_118 | pg/g | | 351000 T | 425000 | 10400 | 93.7 | 48.4 | | 1040 | 97.3 | | | | 868 | 2850 |
| PCB107 & 109 | PCB107_109 | pg/g | | 32100 T | 31600 | 1050 | 8.24 | 4.99 U | | 104 | 11.1 | | | | 77.7 | 314 |
| PCB108 & 112 | PCB108_112 | pg/g | | 21600 T | 22700 | 682 | 4.94 U | 4.99 U | | 52.1 | 5.67 | | | | 51.7 | 186 |
| PCB110 | 38380-03-9 | pg/g | | 527000 T | 624000 | 15300 | 94.7 | 45.4 | | 1450 | 141 | | | | 1280 | 4360 |
| PCB111 & 115 | PCB111_115 | pg/g | | 4730 T | 7050 | 75.9 | 4.94 U | 4.99 U | | 13.3 | 4.88 U | | | | 17.3 | 44.4 |
| PCB113 | 68194-10-5 | pg/g | | 1100 T | 727 | 47.4 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 5.08 | 20.1 |
| PCB114 | 74472-37-0 | pg/g | | 4970 T | 7160 | 96.8 | 2.31 U | 1.72 U | | 13.5 | 1.74 U | | | | 16.1 | 42.5 |
| PCB119 | 56558-17-9 | pg/g | | 16900 T | 11400 | 675 | 4.94 U | 4.99 U | | 39.6 | 4.88 U | | | | 37 | 200 |
| PCB120 | 68194-12-7 | pg/g | | 2250 T | 2030 | 138 | 4.94 U | 4.99 U | | 7.52 | 4.88 U | | | | 4.9 U | 34.4 |
| PCB121 | 56558-18-0 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB122 | 76842-07-4 | pg/g | | 2340 T | 3240 | 45.8 | 4.94 U | 4.99 U | | 10.3 | 4.88 U | | | | 9.71 | 30.3 |
| PCB123 | 65510-44-3 | pg/g | | 3260 T | 5200 | 69.3 | 3.75 U | 1.89 U | | 8.79 | 1.87 J | | | | 14.5 | 39.3 |
| PCB124 | 70424-70-3 | pg/g | | 9810 T | 15400 | 225 | 4.94 U | 4.99 U | | 31.7 | 4.88 U | | | | 30.4 | 88.7 |
| PCB126 | 57465-28-8 | pg/g | | 1200 T | 1460 | 24.6 | 2.67 U | 2.05 U | | 7.13 | 1.72 U | | | | 6.16 | 14.2 |
| PCB127 | 39635-33-1 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB128 & 162 | PCB128_162 | pg/g | | 56400 T | 63800 | 1100 | 10 | 5.64 | | 222 | 19.8 | | | | 154 | 430 |
| PCB129 | 55215-18-4 | pg/g | | 15800 T | 18900 | 268 | 4.94 U | 4.99 U | | 51.5 | 5.09 | | | | 43.5 | 110 |
| PCB130 | 52663-66-8 | pg/g | | 29400 T | 23800 | 608 | 4.94 U | 4.99 U | | 145 | 11.8 | | | | 83.9 | 312 |
| PCB131 | 61798-70-7 | pg/g | | 61.5 T | 90.7 | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB132 & 161 | PCB132_161 | pg/g | | 122000 T | 112000 | 2810 | 17.2 | 8.9 | | 509 | 35.2 | | | | 304 | 1100 |
| PCB133 & 142 | PCB133_142 | pg/g | | 12000 T | 10600 | 316 | 4.94 U | 4.99 U | | 75.1 | 8.16 | | | | 36 | 168 |
| PCB134 & 143 | PCB134_143 | pg/g | | 22600 T | 21700 | 521 | 4.94 U | 4.99 U | | 89.6 | 6.51 | | | | 51.4 | 179 |
| PCB135 | 52744-13-5 | pg/g | | 61400 T | 45700 | 1590 | 7.6 | 4.99 U | | 330 | 22.8 | | | | 169 | 860 |
| PCB136 | 38411-22-2 | pg/g | | 58700 T | 47400 | 1410 | 7.77 | 4.99 U | | 301 | 22.8 | | | | 159 | 821 |
| PCB137 | 35694-06-5 | pg/g | | 16900 T | 23300 | 334 | 4.94 U | 4.99 U | | 55.1 | 5.95 | | | | 46.9 | 108 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | 378000 T | 336000 | 7880 | 54 | 31.1 | | 1950 | 141 | | | | 1090 | 3820 |
| PCB139 & 149 | PCB139_149 | pg/g | | 358000 T | 279000 | 8580 | 45 | 21.5 | | 1970 | 142 | | | | 1040 | 4800 |
| PCB140 | 59291-64-4 | pg/g | | 4170 T | 2480 | 150 | 4.94 U | 4.99 U | | 17.8 | 4.88 U | | | | 11.3 | 60.1 |
| PCB141 | 52712-04-6 | pg/g | | 62000 T | 52700 | 1010 | 7.79 | 4.99 U | | 333 | 22.8 | | | | 185 | 662 |
| PCB144 | 68194-14-9 | pg/g | | 16900 T | 14200 | 291 | 4.94 U | 4.99 U | | 101 | 7.84 | | | | 53.7 | 172 |
| PCB145 | 74472-40-5 | pg/g | | 152 T | 184 | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB146 & 165 | PCB146_165 | pg/g | | 65200 T | 43200 | 1890 | 9.5 | 4.99 U | | 461 | 43.1 | | | | 199 | 1120 |
| PCB147 | 68194-13-8 | pg/g | | 9430 T | 9900 | 272 | 4.94 U | 4.99 U | | 29.1 | 4.88 U | | | | 31 | 108 |
| PCB148 | 74472-41-6 | pg/g | | 1010 T | 350 | 57.9 | 4.94 U | 4.99 U | | 14.2 | 4.88 U | | | | 4.9 U | 41.1 |
| PCB150 | 68194-08-1 | pg/g | | 584 T | 418 | 39.3 | 4.94 U | 4.99 U | | 6.45 | 4.88 U | | | | 4.9 U | 62.3 |
| PCB151 | 52663-63-5 | pg/g | | 95600 T | 59300 | 2100 | 11.2 | 4.99 U | | 640 | 45.9 | | | | 286 | 1260 |
| PCB152 | 68194-09-2 | pg/g | | 396 T | 427 | 9.13 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB153 | 35065-27-1 | pg/g | | 358000 T | 273000 | 8720 | 49.1 | 27.8 | | 2290 | 186 | | | | 1050 | 4720 |
| PCB154 | 60145-22-4 | pg/g | | 9000 T | 4510 | 375 | 4.94 U | 4.99 U | | 71.1 | 8.53 | | | | 32.3 | 387 |
| PCB155 | 33979-03-2 | pg/g | | 21.5 JT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB156 | 38380-08-4 | pg/g | | 36700 T | 38600 | 688 | 8.14 | 5.28 | | 146 | 11.3 | | | | 90.2 | 279 |
| PCB157 | 69782-90-7 | pg/g | | 7260 T | 8420 | 129 | 2.3 J | 1.05 J | | 23.4 | 2.83 J | | | | 20 | 50.8 |
| PCB158 & 160 | PCB158_160 | pg/g | | 40700 T | 41300 | 647 | 5.78 | 4.99 U | | 160 | 11.6 | | | | 107 | 295 |
| PCB159 | 39635-35-3 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB166 | 41411-63-6 | pg/g | | 1320 T | 1760 | 23.6 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 6.6 |
| PCB167 | 52663-72-6 | pg/g | | 14500 T | 13900 | 260 | 3.42 J | 1.71 J | | 56.4 | 4.64 J | | | | 39.7 | 113 |
| PCB168 | 59291-65-5 | pg/g | | 678 T | 430 | 22.5 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 10.1 |
| PCB169 | 32774-16-6 | pg/g | | 37.8 T | 34.4 U | 4.15 U | 1.82 U | 1.08 U | | 2.38 U | 1.47 U | | | | 0.803 U | 1.62 U |
| PCB170 | 35065-30-6 | pg/g | | 80200 T | 44600 | 1590 | 9.28 | 5.36 | | 622 | 46.3 | | | | 284 | 1310 |
| PCB171 | 52663-71-5 | pg/g | | 23600 T | 12600 | 460 | 4.94 U | 4.99 U | | 184 | 14.3 | | | | 77.4 | 374 |
| PCB172 | 52663-74-8 | pg/g | | 13500 T | 6820 | 264 | 4.94 U | 4.99 U | | 117 | 16.8 | | | | 50.9 | 238 |
| PCB173 | 68194-16-1 | pg/g | | 2050 T | 1370 | 40.1 | 4.94 U | 4.99 U | | 12.8 | 4.88 U | | | | 7.63 | 31.8 |
| PCB174 | 38411-25-5 | pg/g | | 92800 T | 45100 | 1850 | 8.43 | 5.66 | | 876 | 89.6 | | | | 356 | 1690 |
| PCB175 | 40186-70-7 | pg/g | | 5260 T | 2330 | 83.3 | 4.94 U | 4.99 U | | 44.5 | 7.1 | | | | 17 | 79.5 |
| PCB176 | 52663-65-7 | pg/g | | 14700 T | 6570 | 276 | 4.94 U | 4.99 U | | 125 | 12.9 | | | | 50.7 | 249 |
| PCB177 | 52663-70-4 | pg/g | | 54500 T | 24800 | 1160 | 5.15 | 4.99 U | | 455 | 43 | | | | 198 | 1030 |
| PCB178 | 52663-67-9 | pg/g | | 20300 T | 8410 | 444 | 4.94 U | 4.99 U | | 219 | 37.2 | | | | 83.4 | 448 |
| PCB179 | 52663-64-6 | pg/g | | 45200 T | 19100 | 950 | 4.94 U | 4.99 U | | 474 | 57.2 | | | | 176 | 942 |
| PCB180 | 35065-29-3 | pg/g | | 187000 T | 93800 | 3710 | 20 | 14.3 | | 1900 | 226 | | | | 736 | 3490 |
| PCB181 | 74472-47-2 | pg/g | | 635 T | 638 | 16.1 | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 11.8 |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C706-E | LW3-C708-B | LW3-C708-C | LW3-C708-D | LW3-C708-F | LW3-C708-G | LW3-C709-B | LW3-C712-B | LW3-C712-C | LW3-C714-B | LW3-C717-B | LW3-C720-B | LW3-C721-B | LW3-C721-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 333 - 402 | 30 - 150 | 150 - 236 | 236 - 305 | 380 - 496 | 496 - 544 | 30 - 152 | 30 - 151 | 151 - 257 | 30 - 146 | 30 - 148 | 30 - 152 | 30 - 151 | 151 - 271 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | 122000 T | 51700 | 2570 | 11.3 UJ | 7.91 | | 1420 | 212 | | | | 518 | 2560 |
| PCB183 | 52663-69-1 | pg/g | | 55900 T | 27100 | 1070 | 5.3 | 4.99 U | | 534 | 66.1 | | | | 202 | 923 |
| PCB184 | 74472-48-3 | pg/g | | 103 T | 61.1 | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB185 | 52712-05-7 | pg/g | | 8660 T | 4480 | 164 | 4.94 U | 4.99 U | | 95.1 | 12.4 | | | | 36.4 | 168 |
| PCB186 | 74472-49-4 | pg/g | | 21 JT | 25.6 J | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB188 | 74487-85-7 | pg/g | | 158 T | 56.9 | 7.79 UJ | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 9.55 |
| PCB189 | 39635-31-9 | pg/g | | 3220 T | 1920 | 64 | 0.757 U | 0.633 U | | 21.3 | 2.61 J | | | | 10.4 | 47.3 |
| PCB190 | 41411-64-7 | pg/g | | 16100 T | 8980 | 312 | 4.94 U | 4.99 U | | 120 | 12 | | | | 60.6 | 268 |
| PCB191 | 74472-50-7 | pg/g | | 3850 T | 1950 | 61.8 | 4.94 U | 4.99 U | | 25 | 4.88 U | | | | 11.8 | 53.8 |
| PCB192 | 74472-51-8 | pg/g | | 24.5 UT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB193 | 69782-91-8 | pg/g | | 9770 T | 4300 | 200 | 4.94 U | 4.99 U | | 81.8 | 10.7 | | | | 37.1 | 190 |
| PCB194 | 35694-08-7 | pg/g | | 32900 T | 18400 | 623 | 4.94 U | 4.99 U | | 591 | 138 | | | | 173 | 801 |
| PCB195 | 52663-78-2 | pg/g | | 13400 T | 7290 | 312 | 4.94 U | 4.99 U | | 224 | 40.4 | | | | 66.1 | 334 |
| PCB196 & 203 | PCB196_203 | pg/g | | 53000 T | 27100 | 1020 | 5.25 | 5.07 | | 1070 | 294 | | | | 270 | 1150 |
| PCB197 | 33091-17-7 | pg/g | | 1860 T | 873 | 33.7 | 4.94 U | 4.99 U | | 26.5 | 6.29 | | | | 7.18 | 36 |
| PCB198 | 68194-17-2 | pg/g | | 2550 T | 1400 | 51.2 | 4.94 U | 4.99 U | | 56.6 | 22.9 | | | | 12.4 | 57.7 |
| PCB199 | 52663-75-9 | pg/g | | 49800 T | 23500 | 892 | 6.97 | 5.12 | | 1120 | 427 | | | | 269 | 1090 |
| PCB200 | 52663-73-7 | pg/g | | 6240 T | 3100 | 117 | 4.94 U | 4.99 U | | 118 | 23.5 | | | | 31.9 | 139 |
| PCB201 | 40186-71-8 | pg/g | | 6420 T | 3030 | 111 | 4.94 U | 4.99 U | | 125 | 36.7 | | | | 28.9 | 133 |
| PCB202 | 2136-99-4 | pg/g | | 8840 T | 4230 | 156 | 4.94 U | 4.99 U | | 247 | 121 | | | | 47.5 | 202 |
| PCB204 | 74472-52-9 | pg/g | | 15.7 JT | 49.5 U | 5.02 U | 4.94 U | 4.99 U | | 4.83 U | 4.88 U | | | | 4.9 U | 5.01 U |
| PCB205 | 74472-53-0 | pg/g | | 1580 T | 900 | 30.1 | 4.94 U | 4.99 U | | 23.8 | 4.88 U | | | | 7.52 | 36.1 |
| PCB206 | 40186-72-9 | pg/g | | 12000 T | 9580 | 263 | 4.94 U | 4.99 U | | 1290 | 1110 | | | | 147 | 346 |
| PCB207 | 52663-79-3 | pg/g | | 1660 T | 1280 | 35 | 4.94 U | 4.99 U | | 113 | 79.8 | | | | 15.8 | 44.2 |
| PCB208 | 52663-77-1 | pg/g | | 2980 T | 2600 | 72.9 | 4.94 U | 4.99 U | | 468 | 450 | | | | 46.6 | 97.3 |
| PCB209 | 2051-24-3 | pg/g | | 2070 T | 3090 | 223 | 4.94 U | 4.99 U | | 1770 | 1660 | | | | 149 | 348 |
| Total PCB Congeners | 1336-36-3 | pg/g | | 7050000 JT | 6950000 JT | 203000 T | 1090 JT | 529 JT | | 34800 T | 7120 JT | | | | 25700 JT | 110000 T |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | 137 JT | 165 T | 2.88 T | 0.0039 JT | 0.00211 JT | | 0.764 T | 0.00477 JT | | | | 0.663 JT | 1.57 T |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | 8570 T | 1350 T | 30.4 T | 4.94 UT | 4.99 UT | | 29.9 T | 12.3 T | | | | 47.7 T | 131 T |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | 32600 T | 15600 T | 453 T | 9.88 UT | 9.97 UT | | 42.6 T | 9.77 UT | | | | 534 T | 2090 T |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | 269000 JT | 304000 T | 13000 T | 65.8 T | 36.1 T | | 300 T | 67 T | | | | 3080 T | 15000 T |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | 1250000 JT | 1460000 T | 49600 T | 245 T | 123 T | | 2080 T | 271 JT | | | | 5970 JT | 27300 T |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | 2680000 JT | 3150000 T | 78500 T | 482 T | 224 T | | 7750 T | 732 JT | | | | 6640 T | 24100 T |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | 1850000 JT | 1550000 T | 42100 T | 239 JT | 103 JT | | 10000 T | 766 JT | | | | 5280 T | 22100 T |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | 760000 JT | 367000 JT | 15300 T | 48.2 T | 33.2 T | | 7330 T | 866 JT | | | | 2910 T | 14100 T |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | 177000 JT | 89800 T | 3350 T | 12.2 T | 10.2 T | | 3600 T | 1110 T | | | | 914 T | 3980 T |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | 16600 T | 13500 T | 371 T | 4.94 UT | 4.99 UT | | 1870 T | 1640 T | | | | 209 T | 488 T |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.16 U | 190 U | 150 U | 3.1 U | 0.16 U | 0.41 | 0.86 NJ | 1.1 NJ | 0.16 U | 1.2 J | 0.83 NJ | 1.2 J | 0.77 NJ | 4.9 J |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.046 U | 23 U | 20 U | 0.8 U | 0.22 | 0.059 U | 0.35 U | 0.66 U | 0.094 J | 0.28 U | 0.046 U | 0.86 U | 0.046 U | 0.046 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.084 J | 560 | 540 J | 7.7 | 0.061 U | 0.15 J | 0.63 J | 0.81 NJ | 0.23 U | 2.1 NJ | 0.66 | 1.1 J | 0.84 J | 3.4 J |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.21 NJ | 250 | 160 | 6.3 | 0.073 U | 0.66 | 1.3 | 1.7 | 0.073 U | 2 | 1.4 | 1.3 | 4.2 | 5.8 |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.027 U | 390 NJ | 20 U | 2.4 U | 0.027 U | 0.48 NJ | 2.6 | 2.2 J | 0.11 U | 2.8 | 3 | 3.5 | 6.9 J | 12 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.18 U | 850 NJ | 570 | 7.9 J | 0.18 U | 0.68 J | 1.3 U | 0.98 | 0.18 U | 2.5 J | 1.6 | 1.8 NJ | 2.9 NJ | 4.2 |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 6.7 U | 6 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.22 U | 0.2 U | 0.12 U | 0.33 U | 0.34 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.037 U | 2.1 U | 90 NJ | 0.32 U | 0.037 U | 0.037 U | 0.2 J | 0.037 U | 0.037 U | 0.3 | 0.22 U | 0.24 U | 0.19 NJ | 0.18 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 5.4 U | 4.9 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 32 U | 1.6 U | 0.37 U | 0.031 U | 0.031 U | 0.079 U | 0.27 U | 0.15 U | 0.18 U | 0.18 U | 0.031 U | 0.2 U | 0.67 J |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 7.8 U | 7 U | 0.33 U | 0.14 U | 0.29 U | 0.49 NJ | 0.2 U | 0.31 U | 0.14 U | 0.14 U | 0.14 U | 0.45 U | 0.2 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 16 U | 17 U | 0.3 U | 0.031 U | 0.031 U | 0.17 U | 0.031 U | 0.031 U | 0.42 | 0.19 U | 0.031 U | 0.54 | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.087 U | 170 U | 110 U | 3.9 U | 0.087 U | 0.087 U | 0.56 U | 0.67 U | 0.24 U | 1.2 U | 0.57 U | 1 U | 0.76 U | 2.4 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 6.1 U | 5.5 U | 0.37 U | 0.11 U | 0.11 U | 0.11 U | 0.19 U | 0.11 U | 0.11 U | 0.11 U | 0.13 U | 0.12 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.03 U | 1.7 U | 1.5 U | 0.03 U | 0.03 U | 0.03 U | 0.33 NJ | 0.17 U | 0.29 U | 0.39 | 0.42 J | 0.56 | 0.19 U | 0.43 NJ |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 3.3 U | 2.9 U | 0.099 U | 0.058 U | 0.058 U | 0.25 U | 0.17 U | 0.17 U | 0.42 U | 0.3 U | 0.31 U | 0.44 U | 0.18 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 64 NJ | 32 U | 1.1 U | 0.071 U | 0.071 U | 0.2 U | 0.39 U | 0.17 U | 0.5 U | 0.088 U | 0.19 U | 0.13 U | 0.31 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 31 U | 91 J | 0.41 U | 0.042 U | 0.042 U | 0.22 U | 0.3 U | 0.23 U | 0.19 U | 0.22 U | 0.042 U | 0.2 U | 0.26 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.029 U | 46 U | 26 U | 0.51 U | 0.029 U | 0.14 U | 0.24 U | 0.83 J | 0.17 U | 0.62 U | 0.49 NJ | 0.34 U | 0.25 U | 0.71 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 6.7 J | 7.2 J | 0.062 U | 0.15 U | 0.31 U | 0.2 U | 0.5 U | 0.46 | 0.16 U | 0.062 U | 0.21 U | 0.55 U | 0.19 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 4.3 U | 3.8 U | 0.29 U | 0.076 U | 0.13 U | 0.076 U | 0.17 U | 0.076 U | 0.19 U | 0.2 U | 0.076 U | 0.076 U | 0.52 NJ |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.068 U | 13 U | 68 U | 0.47 U | 0.068 U | 0.098 J | 0.21 NJ | 0.21 U | 0.11 U | 0.19 U | 0.29 U | 0.46 U | 0.23 U | 0.77 NJ |
| Methoxychlor | 72-43-5 | ug/kg | 0.075 U | 21 U | 18 U | 0.45 U | 0.075 U | 0.075 U | 0.73 U | 0.28 U | 0.24 U | 0.67 U | 0.58 U | 0.72 U | 0.075 U | 0.55 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 6.7 U | 6 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.11 U | 12 U | 6.2 U | 0.27 NJ | 0.45 NJ | 0.14 U | 0.061 U | 0.13 U | 0.12 J | 0.11 U | 0.2 U | 0.19 U | 0.061 U | 0.34 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.11 UT | 290 JT | 310 JT | 5.6 JT | 0.45 JT | 0.14 UT | 0.67 JT | 0.67 UT | 0.12 JT | 1.6 JT | 0.19 JT | 1 JT | 1.7 T | 0.82 JT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C706-E | LW3-C708-B | LW3-C708-C | LW3-C708-D | LW3-C708-F | LW3-C708-G | LW3-C709-B | LW3-C712-B | LW3-C712-C | LW3-C714-B | LW3-C717-B | LW3-C720-B | LW3-C721-B | LW3-C721-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 333 - 402 | 30 - 150 | 150 - 236 | 236 - 305 | 380 - 496 | 496 - 544 | 30 - 152 | 30 - 151 | 151 - 257 | 30 - 146 | 30 - 148 | 30 - 152 | 30 - 151 | 151 - 271 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.058 UT | 32 UT | 90 JT | 0.37 UT | 0.058 UT | 0.058 UT | 0.2 JT | 0.27 UT | 0.17 UT | 0.3 T | 0.3 UT | 0.31 UT | 0.19 JT | 0.67 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.21 JT | 250 T | 160 T | 6.3 T | 0.16 UT | 1.1 T | 2.2 JT | 2.8 JT | 0.16 UT | 3.2 JT | 2.2 JT | 2.5 JT | 5 JT | 11 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 0.29 JT | 2100 JT | 1300 JT | 22 JT | 0.22 T | 2.4 JT | 5.4 JT | 6.8 JT | 0.094 JT | 11 JT | 7.5 JT | 8.9 JT | 16 JT | 30 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.046 UT | 390 JT | 20 UT | 2.4 UT | 0.22 T | 0.48 JT | 2.6 T | 2.2 JT | 0.094 JT | 2.8 T | 3 T | 3.5 T | 6.9 JT | 12 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.084 JT | 1400 JT | 1100 JT | 16 JT | 0.18 UT | 0.83 JT | 0.63 JT | 1.8 JT | 0.23 UT | 4.6 JT | 2.3 T | 2.9 JT | 3.7 JT | 7.6 JT |
| Toxaphene | 8001-35-2 | ug/kg | 3.4 U | 4900 U | 4300 U | 39 U | 3.4 U | 5 U | 28 U | 53 U | 32 U | 36 U | 50 U | 43 U | 25 U | 37 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.027 U | 290 J | 310 NJ | 5 J | 0.15 U | 0.14 U | 0.51 J | 0.49 U | 0.068 U | 0.9 | 0.63 U | 1 NJ | 1.2 | 0.027 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.034 U | 3.2 U | 9.2 U | 0.31 | 0.15 U | 0.034 U | 0.16 J | 0.17 U | 0.06 U | 0.23 J | 0.19 J | 0.21 U | 0.43 U | 0.82 NJ |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 1.8 JT | 1000 J | 6800 J | 210 J | 2.6 J | 1.7 U | 90.5 JT | 340 J | 230 J | 105 JT | 84 J | 270 J | 72 J | 190 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 1.6 UT | 760 J | 3000 J | 190 J | 1.7 U | 1.7 U | 77 JT | 320 J | 190 J | 104 JT | 76 J | 230 J | 61 J | 170 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 6.7 JT | 2000 J | 17000 J | 320 J | 21 J | 3.9 U | 425 JT | 880 J | 630 J | 360 JT | 420 J | 910 J | 330 J | 580 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 4.15 JT | 1300 J | 11000 J | 260 J | 6.5 J | 3.9 U | 270 JT | 720 J | 460 J | 255 JT | 260 J | 580 J | 200 J | 440 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 8.5 JA | 3000 JA | 23800 JA | 530 JA | 23.6 JA | 3.9 UA | 516 JA | 1220 JA | 860 JA | 465 JA | 504 JA | 1180 JA | 402 JA | 770 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 4.15 JA | 2060 JA | 14000 JA | 450 JA | 6.5 JA | 3.9 UA | 347 JA | 1040 JA | 650 JA | 359 JA | 336 JA | 810 JA | 261 JA | 610 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.26 U | 3.1 J | 1.2 U | 0.3 U | 0.3 U | 0.28 U | 0.4 U | 0.34 U | 0.35 U | 0.38 U | 0.42 U | 0.38 U | 0.39 U | 0.36 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.21 U | 6.7 J | 2.7 J | 0.24 U | 0.25 U | 0.23 U | 0.32 U | 0.27 U | 0.28 U | 0.31 U | 0.34 U | 0.31 U | 0.32 U | 0.29 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 6.2 U | 3 U | 1.7 U | 7 U | 7.2 U | 6.7 U | 3.8 U | 7 U | 3.2 U | 0.99 U | 1.1 U | 3.1 U | 3.3 U | 4.1 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.14 U | 0.24 U | 0.21 U | 0.38 J | 0.16 U | 0.15 U | 0.21 U | 1.1 J | 0.27 U | 0.21 U | 0.22 U | 0.2 U | 0.21 U | 0.2 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 22 U | 100 U | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 U | 120 U | 550 U | 5.5 U | 5.5 U | 5.5 U | R | R | R | R | R | R | 5.5 U | 11 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 380 UJ | 1700 UJ | 17 UJ | 17 UJ | 17 UJ | 17 U | 170 U | 170 U | 17 U | 17 U | 17 U | 17 UJ | 34 UJ |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 44 U | 200 U | 2 U | 2 U | 2 U | 2 U | 20 U | 20 U | 2 U | 2 U | 2 U | 2 U | 4 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 33 U | 150 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 33 U | 150 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 31 U | 140 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 14 U | 14 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 31 U | 140 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 14 U | 14 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 1.5 U | 33 U | 150 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 32 J | 62 J | 11 | 1.5 U | 10 | 1.5 U | 3 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 400 U | 1800 U | 18 U | 18 U | 18 U | 18 U | 180 U | 180 U | 18 U | 18 U | 18 U | 18 U | 36 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.2 U | 190 | 47 | 4.5 J | 0.23 U | 0.22 U | 5.6 U | 1.3 J | 1.2 J | 1.3 J | 1.4 J | 0.97 U | 0.85 U | 1.9 J |
| Phenol | 108-95-2 | ug/kg | 2 U | 44 U | 200 U | 2 U | 2 U | 11 J | 2 U | 20 U | 20 U | 19 U | 2 U | 28 U | 2 U | 4 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 7 U | 2000 | 700 U | 40 | 7.6 J | 7 U | 73 | 70 U | 70 U | 170 J | 90 | 98 | 36 | 85 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 70 U | 320 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 32 U | 32 U | 23 | 3.2 U | 17 | 3.2 U | 6.4 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 7.9 U | 180 U | 790 U | 7.9 U | 8.1 | 20 | 17 | 79 U | 79 U | 24 | 39 | 29 | 12 | 16 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 1.3 U | 29 U | 130 U | 1.3 U | 1.7 J | 1.3 J | 3.4 J | 13 U | 13 U | 4.2 J | 5.2 J | 4.7 J | 4.1 J | 2.6 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 22 U | 100 U | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 38 U | 170 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 17 U | 17 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 3.4 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 57 U | 260 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 26 U | 26 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 5.2 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 64 U | 290 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 29 U | 29 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 5.8 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 66 U | 300 U | 3 U | 3 U | 3 U | 3 U | 30 U | 30 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 64 U | 290 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 29 U | 29 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 5.8 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 33 U | 150 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 44 U | 200 U | 2 U | 2 U | 2 U | 2 U | 20 U | 20 U | 2 U | 2 U | 2 U | 2 U | 4 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 35 U | 160 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 16 U | 16 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 70 U | 320 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 32 U | 32 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 6.4 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 81 U | 370 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 37 U | 37 U | R | 3.7 U | 3.7 U | 3.7 U | 7.4 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 55 U | 250 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 25 U | 25 U | R | 2.5 U | 2.5 U | 2.5 U | 5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 35 U | 160 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 16 U | 16 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 42 U | 190 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 19 U | 19 U | R | 1.9 U | 1.9 U | 1.9 U | 3.8 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 31 U | 140 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 14 U | 14 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 40 U | 180 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 18 U | 18 U | 1.8 UJ | 1.8 U | 1.8 U | 1.8 U | 3.6 U |
| Aniline | 62-53-3 | ug/kg | 1.5 UJ | 33 U | 150 U | 1.5 U | 1.5 U | 1.5 U | R | 15 U | 15 U | R | R | R | 1.5 U | 3 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 UJ | 24 U | 110 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 11 U | 11 U | 1.1 UJ | 1.1 U | 1.1 U | 1.1 U | 2.2 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 2100 U | 9600 U | 96 U | 96 U | R | 120 J | 960 U | 960 U | 160 J | 96 UJ | 96 U | R | R |
| Benzyl alcohol | 100-51-6 | ug/kg | 2.6 J | 46 U | 210 U | 2.1 U | 6.3 J | 3.7 J | 2.1 U | 21 U | 21 U | 8.7 J | 6.4 J | 2.1 U | 2.1 U | 4.2 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 33 U | 150 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 15 U | 15 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 42 U | 190 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 19 U | 19 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 3.8 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 57 U | 260 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 26 U | 26 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 5.2 U |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 340 | 130 J | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 13 U | 13 U | 7.2 J | 2.7 J | 1.3 U | 4.5 J | 2.6 U |
| Dibenzofuran | 132-64-9 | ug/kg | 0.59 U | 450 | 380 | 6 | 0.59 U | 0.59 U | 1.3 J | 9.7 | 15 | 4.2 | 2 U | 3.2 | 1.5 J | 4.7 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 U | 3.8 U | 3.4 U | 0.21 J | 0.068 U | 0.068 U | 1.2 U | 0.15 UJ | 0.18 UJ | 0.24 J | 0.092 UJ | 1.2 U | 0.068 U | 0.18 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C706-E | LW3-C708-B | LW3-C708-C | LW3-C708-D | LW3-C708-F | LW3-C708-G | LW3-C709-B | LW3-C712-B | LW3-C712-C | LW3-C714-B | LW3-C717-B | LW3-C720-B | LW3-C721-B | LW3-C721-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 333 - 402 | 30 - 150 | 150 - 236 | 236 - 305 | 380 - 496 | 496 - 544 | 30 - 152 | 30 - 151 | 151 - 257 | 30 - 146 | 30 - 148 | 30 - 152 | 30 - 151 | 151 - 271 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 7.8 U | 7 U | 0.21 U | 0.14 U | 0.14 U | 0.14 U | 0.48 U | 0.31 U | 0.14 U | 0.21 U | 2.5 U | 0.14 U | 0.18 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 640 U | 2900 U | 29 U | 29 U | 29 U | 29 U | 290 U | 290 U | 29 U | 29 U | 29 U | 29 U | 58 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 8.9 U | 8 U | 0.16 U | 0.16 U | 3.1 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.21 U | 0.33 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 22 U | 100 U | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 1 U | 2 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 48 U | 220 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 22 U | 22 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 4.4 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 UJ | 140 U | 610 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 61 U | 61 U | 6.1 UJ | 6.1 U | 6.1 U | 6.1 U | 13 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 35 U | 160 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 16 U | 16 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 53 U | 240 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 24 U | 24 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 4.8 U |

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Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C721-D | LW3-C721-E | LW3-C724-B | LW3-C724-C | LW3-C724-E | LW3-C724-G | LW3-C727-B | LW3-C733-B | LW3-C735-B | LW3-C735-C | LW3-C738-B | LW3-C738-C | LW3-C738-D | LW3-C738-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 271 - 362 | 362 - 464 | 30 - 110 | 110 - 190 | 294 - 413 | 476 - 538 | 30 - 129 | 30 - 116 | 30 - 85 | 85 - 166 | 30 - 115 | 115 - 223 | 223 - 343 | 430 - 507 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 3.7 U | 0.73 U | 3.7 U | 1.5 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 3.7 U | 0.73 U | 3.7 U | 11 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 4.8 U | 1.3 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 3.7 U | 0.73 U | 3.7 U | 2.4 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 2.3 U | 1.3 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 17 J | 0.73 U | 52 | 0.73 U | 0.73 U | 0.73 U | 5.6 | 3 U | 1.7 U | 6.7 U | 43 | 28 | 0.73 U | 3.7 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 3.7 U | 0.73 U | 3.7 U | 1.7 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 35 J | 1.2 U | 23 | 0.73 U | 0.73 U | 0.73 U | 20 | 6.9 NJ | 5.2 | 37 | 46 | 30 | 0.73 U | 3.7 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 27 | 0.73 U | 14 | 0.73 U | 1.7 J | 0.73 U | 33 J | 14 | 11 J | 80 J | 93 | 58 | 1.5 U | 49 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 3.7 U | 0.73 U | 3.7 U | 0.73 U | 1.1 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 3.7 U | 0.73 U | 3.7 U | 0.73 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 3.7 U | 0.73 U | 3.7 U |
| Aroclors | 12767-79-2 | ug/kg | 79 JT | 1.2 UT | 89 T | 11 UT | 1.7 JT | 0.73 UT | 58.6 JT | 20.9 JT | 16.2 JT | 117 JT | 182 T | 116 T | 1.5 UT | 49 T |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.72 | 2.44 | 1.62 | 3.39 | 1.97 | 2.1 | 1.64 | 1.53 | 1.69 | 1.59 T | 2.32 T | 1.58 | 1.92 | 1.6 |
| Total organic carbon | TOC | percent | 1.4 T | 1.84 | 1.8 | 0.05 | 0.89 | 0.48 | 1.08 | 0.37 | 2.06 | 2.2 T | 1.71 T | 1.82 | 0.09 | 1.91 |
| Total solids | TSO | percent | 66.6 | 65.3 T | 54.5 | 78.9 | 64.5 | 66.3 | 62 | 74.2 | 52.1 | 58.4 T | 62 T | 59.6 | 78.4 | 64.2 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 7.52 | 0.577 | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 7.46 | 4.67 | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 66.7 | 19.1 | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 449 | 96.1 | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 2680 J | 667 | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 14.5 | 11.1 | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 53.4 | 24.9 | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 57.2 | 34.7 | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 237 | 62.2 | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 271 | 30.9 | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | 3840 JT | 951 T | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.823 | 0.136 J | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.986 J | 0.411 J | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 1.38 J | 0.256 U | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 7.25 | 1.92 J | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 4.37 | 0.946 J | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 183 | 31.3 | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.531 | 0.234 J | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.884 J | 0.334 J | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.805 J | 0.498 J | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 3.42 | 1.11 J | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 4.59 | 2.39 J | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.138 J | 0.196 U | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 3.9 | 1.45 J | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 67.3 | 29.4 | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 3.11 | 0.695 J | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 8.05 JT | 2.33 JT | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 9.7 JT | 2.34 JT | 2.25 JA | 0.00079 JA | 0.00039 JA | 0.00029 JA | | | | | 18.1 JA | 2.34 A | 0.00191 JA | 1.65 A |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 0.52 | 0 | 0 | 0 | 0.55 | 2.78 | 3.29 | 0.23 | 0.06 | 1.32 | 0 | 1.09 | 0.68 |
| Fine gravel | GS_FG | percent | 0.95 | 2.83 | 0 | 0.04 | 0 | 4.56 | 0.25 | 0.92 | 1.56 | 1.5 | 0.73 | 0.5 | 0.09 | 8.5 |
| Very coarse sand | GS_VCS | percent | 1.84 | 2.9 | 0.03 | 0.04 | 0.12 | 1.96 | 0.28 | 1.03 | 2.45 | 1.24 | 1.26 | 0.97 | 1.06 | 4.25 |
| Coarse sand | GS_CS | percent | 2.13 | 2.12 | 0.25 | 7.26 | 0.22 | 1.33 | 2.65 | 13.2 | 2.1 | 1.41 | 5.35 | 3.1 | 17.02 | 1.64 |
| Medium sand | GS_MS | percent | 14 | 6.16 | 2.47 | 79.1 | 1.36 | 0.91 | 12.3 | 42.6 | 2.19 | 1.99 | 16.7 | 10.8 | 52.8 | 1.14 |
| Fine sand | GS_FS | percent | 8.21 | 5.09 | 3.73 | 16.4 | 24.8 | 1.96 | 18.3 | 20.3 | 7.87 | 13.7 | 22.1 | 14.5 | 23.6 | 5.52 |
| Very fine sand | GS_VFS | percent | 10.5 | 12.7 | 15.8 | 0.65 | 24.8 | 7.91 | 16.8 | 4.61 | 16.1 | 16.9 | 16.9 | 16.4 | 3.14 | 10.7 |
| Fines | GS_FINES | percent | 58.3 T | 63.7 T | 76.7 T | 0.89 T | 51 T | 79 T | 47.1 T | 10.3 T | 70 T | 66.9 T | 36.3 T | 53.9 T | 3.39 T | 67.6 T |
| Coarse silt | GS_CSILT | percent | 13.8 | 12.7 | 19.6 | 0.35 | 16.7 | 15.1 | 13.2 | 2.56 | 19.8 | 28.8 | 10.7 | 12.1 | 1.33 | 13.2 |
| Medium silt | GS_MSILT | percent | 14.2 | 17.6 | 21.3 | 0.22 | 11.2 | 18.1 | 10.8 | 1.94 | 19.5 | 13.1 | 9.78 | 14.6 | 0.88 | 16.2 |
| Fine silt | GS_FSILT | percent | 11.3 | 12.8 | 14 | 0.1 | 9.17 | 17 | 7.99 | 1.98 | 12.9 | 8.75 | 5.49 | 9.14 | 0.35 | 13.2 |
| Very fine silt | GS_VFSILT | percent | 7.14 | 7.74 | 7.02 | 0.06 | 4.44 | 10.3 | 5.2 | 1.5 | 7.52 | 7.04 | 3.6 | 5.73 | 0.28 | 9.69 |
| 8-9 Phi clay | GS_CCLAY | percent | 3.48 | 5.04 | 5.44 | 0.06 | 3.06 | 5.88 | 3.78 | 0.97 | 3.42 | 4.19 | 2.15 | 2.85 | 0.08 | 5.13 |
| >9 Phi clay | GS_MFCLAY | percent | 8.42 | 7.78 | 9.32 | 0.1 | 6.46 | 12.6 | 6.15 | 1.37 | 6.86 | 5.06 | 4.53 | 9.49 | 0.47 | 10.2 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 22800 | 28100 | 28200 | 13600 | 28600 | 29100 | 30200 | 12300 | 36100 | 30400 | 19800 T | 25800 | 12000 | 26200 |
| Antimony | 7440-36-0 | mg/kg | 2.52 J | 0.38 J | 0.6 J | 0.18 J | 0.18 J | 0.2 J | 0.39 J | 0.18 J | 0.23 J | 0.42 J | 0.175 JT | 0.32 J | 0.09 J | 0.34 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C721-D | LW3-C721-E | LW3-C724-B | LW3-C724-C | LW3-C724-E | LW3-C724-G | LW3-C727-B | LW3-C733-B | LW3-C735-B | LW3-C735-C | LW3-C738-B | LW3-C738-C | LW3-C738-D | LW3-C738-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 271 - 362 | 362 - 464 | 30 - 110 | 110 - 190 | 294 - 413 | 476 - 538 | 30 - 129 | 30 - 116 | 30 - 85 | 85 - 166 | 30 - 115 | 115 - 223 | 223 - 343 | 430 - 507 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 8.08 | 3.7 | 6.47 | 2.11 | 3.36 | 2.91 | 3.11 | 2.62 | 3.86 | 3.8 | 3.27 T | 3.69 | 1.55 | 3.54 |
| Cadmium | 7440-43-9 | mg/kg | 0.318 | 0.333 | 0.367 | 0.034 | 0.137 | 0.082 | 0.248 | 0.098 | 0.224 | 0.323 | 0.247 T | 0.296 | 0.051 | 0.375 |
| Chromium | 7440-47-3 | mg/kg | 27.1 | 26.7 | 39.3 | 12.3 | 33.6 | 29.6 | 24.9 | 18.4 | 33.5 | 29 | 19.1 T | 21.2 | 10.2 | 20.9 |
| Copper | 7440-50-8 | mg/kg | 45.7 | 41.7 | 56.3 | 13.9 | 38.4 | 35.3 | 35.8 | 19.9 J | 44 | 42.7 | 32.1 T | 35.3 | 14.6 | 37.9 |
| Lead | 7439-92-1 | mg/kg | 66.5 | 24.3 | 33 | 2.88 | 7.21 | 6.79 | 25.7 | 7.57 J | 17.1 | 31.3 | 19.3 T | 28.6 | 5.62 | 32.9 |
| Mercury | 7439-97-6 | mg/kg | 0.18 | 0.11 | 0.069 | 0.007 J | 0.026 | 0.037 | 0.172 | 0.051 | 0.204 | 0.311 | 0.093 T | 0.13 | 0.032 | 0.327 |
| Nickel | 7440-02-0 | mg/kg | 22.4 | 23 | 31 | 15.3 | 32.3 | 25.8 | 23.2 | 19 J | 27.1 | 25.7 | 19.4 JT | 21.6 J | 16.2 J | 21.8 J |
| Silver | 7440-22-4 | mg/kg | 0.599 | 0.887 | 0.395 | 0.105 | 0.213 | 0.218 | 0.665 | 0.08 | 0.351 | 0.666 | 0.205 T | 0.3 | 0.08 | 0.63 |
| Zinc | 7440-66-6 | mg/kg | 197 | 151 | 130 | 56.3 | 75 | 73.3 | 179 | 67.1 J | 111 | 142 | 148 T | 167 | 58.9 | 125 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 17 | 10 | 3.2 | 0.31 U | 0.4 J | 0.31 U | 0.31 U | 1.9 | 3.1 | 24 | 37 | 38 | 0.98 J | 11 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 45 | 17 | 6.4 | 0.39 U | 0.52 J | 0.39 U | 0.39 U | 3 | 5.2 | 42 | 49 | 55 | 1.6 | 18 |
| Acenaphthene | 83-32-9 | ug/kg | 120 | 37 | 8.2 | 0.23 U | 0.23 U | 0.23 U | 5 | 3 | 8 | 22 | 93 | 57 | 2 | 7 |
| Acenaphthylene | 208-96-8 | ug/kg | 18 | 23 | 7.2 | 0.24 U | 0.24 U | 0.24 U | 7.7 | 3.7 | 3 | 15 | 18 | 58 | 1.3 J | 6.2 |
| Anthracene | 120-12-7 | ug/kg | 42 | 25 | 13 | 0.47 U | 0.47 U | 0.47 U | 12 | 11 | 4.1 | 11 | 89 | 54 | 1.9 | 8.4 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 170 | 55 | 62 | 0.56 J | 0.48 U | 0.48 U | 41 | 28 | 15 | 36 | 210 | 110 | 2.8 | 16 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 93 | 78 | 51 | 0.53 J | 0.14 U | 0.3 J | 46 | 28 | 17 | 45 | 270 | 140 | 3.4 | 24 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 150 | 80 | 98 | 0.69 J | 0.31 J | 0.46 J | 56 | 27 | 22 | 53 | 420 | 150 | 3.7 | 28 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 73 | 54 | 51 | 0.54 J | 0.18 U | 0.52 J | 36 | | 14 | 37 | | | | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 54 | 69 | 34 | 0.64 U | 0.64 U | 0.64 U | 41 | 19 | 15 | 47 | 180 | 120 | 3.2 | 25 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 52 | 26 | 32 | 0.15 U | 0.15 U | 0.26 J | 17 | 7.9 | 7.3 | 14 | 140 | 46 | 1 J | 8.7 |
| Chrysene | 218-01-9 | ug/kg | 170 | 60 | 110 | 0.51 J | 0.25 U | 2.6 | 60 | 30 | 19 | 48 | 390 | 130 | 3.4 | 25 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 9.7 | 8.3 | 6.8 | 0.28 U | 0.28 U | 0.28 U | 5 | 2.9 | 2.3 J | 5.1 | 42 | 18 | 0.39 J | 3.1 |
| Dibenzothiophene | 132-65-0 | ug/kg | 61 | 14 | 7 | 0.21 U | 0.21 U | 0.21 U | 4.7 | 2.9 | 2.3 J | 12 | 59 | 36 | 0.96 J | 12 |
| Fluoranthene | 206-44-0 | ug/kg | 720 | 160 | 230 | 1 J | 0.61 U | 0.88 J | 130 | 42 | 43 | 160 | 1300 | 360 | 9.5 | 65 |
| Fluorene | 86-73-7 | ug/kg | 48 | 16 | 11 | 0.5 U | 0.5 U | 0.5 U | 10 | 2.7 | 5.6 | 26 | 110 | 45 | 1.9 | 9.2 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 57 | 64 | 37 | 0.49 J | 0.16 U | 0.23 J | 37 | 20 | 14 | 41 | 230 | 110 | 3 | 23 |
| Naphthalene | 91-20-3 | ug/kg | 66 | 55 | 13 | 0.85 J | 9.5 | 3 | 0.37 U | 7.7 | 15 | 69 | 48 | 160 | 5.3 | 26 |
| Perylene | 198-55-0 | ug/kg | 77 | 120 | 83 | 2.5 | 150 | 200 | 87 | | 38 | 49 | | | | |
| Phenanthrene | 85-01-8 | ug/kg | 810 | 130 | 99 | 0.75 U | 0.75 U | 1.2 J | 94 | 39 | 31 | 160 | 1400 | 300 | 10 | 62 |
| Pyrene | 129-00-0 | ug/kg | 550 | 190 | 160 | 1 J | 0.37 U | 0.86 J | 150 | 64 | 46 | 170 | 990 | 410 | 10 | 75 |
| High Molecular Weight PAH | HPAH | ug/kg | 2000 T | 790 T | 820 T | 4.8 JT | 0.31 JT | 5.6 JT | 580 T | 270 T | 200 JT | 620 T | 4200 T | 1600 T | 40 JT | 290 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 1100 T | 300 T | 160 T | 0.85 JT | 10 JT | 4.2 JT | 130 T | 70 T | 72 T | 350 T | 1800 T | 730 T | 24 JT | 140 T |
| Total PAHs | 130498-29-2 | ug/kg | 3200 T | 1100 T | 980 T | 5.6 JT | 10 JT | 9.8 JT | 710 T | 340 T | 270 JT | 960 T | 6000 T | 2300 T | 64 JT | 430 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 150 | 42 | 22 | 0.21 U | 0.21 U | 0.21 U | 38 | | 10 | 110 | | | | |
| C1-Chrysene | C1_218-01-9 | ug/kg | 160 | 56 | 60 | 0.25 U | 0.25 U | 0.25 U | 52 | | 12 | 44 | | | | |
| C1-Fluorene | C1_86-73-7 | ug/kg | 91 | 23 | 12 | 0.5 U | 0.5 U | 0.5 U | 7 | | 3.8 | 21 | | | | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 380 | 130 | 99 | 0.61 U | 0.61 U | 0.61 U | 77 | | 26 | 82 | | | | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 420 | 100 | 60 | 0.75 U | 0.75 U | 0.75 U | 74 | | 21 | 140 | | | | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 170 | 44 | 29 | 0.21 U | 0.21 U | 0.21 U | 34 | | 9 | 62 | | | | |
| C2-Chrysene | C2_218-01-9 | ug/kg | 140 | 52 | 45 | 0.25 U | 0.25 U | 0.25 U | 57 | | 16 | 41 | | | | |
| C2-Fluorene | C2_86-73-7 | ug/kg | 210 | 52 | 27 | 0.5 U | 0.5 U | 0.5 U | 44 | | 12 | 110 | | | | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 94 | 44 | 16 | 0.37 U | 0.37 U | 0.37 U | 7.7 | | 14 | 170 | | | | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 420 | 120 | 73 | 0.75 U | 0.75 U | 0.75 U | 100 | | 29 | 170 | | | | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 180 | 62 | 36 | 0.21 U | 0.21 U | 0.21 U | 43 | | 9.2 | 59 | | | | |
| C3-Chrysene | C3_218-01-9 | ug/kg | 93 | 42 | 42 | 0.25 U | 0.25 U | 0.25 U | 46 | | 19 | 36 | | | | |
| C3-Fluorene | C3_86-73-7 | ug/kg | 350 | 62 | 55 | 0.5 U | 0.5 U | 0.5 U | 83 | | 20 | 150 | | | | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 300 | 95 | 24 | 0.37 U | 0.37 U | 0.37 U | 43 | | 15 | 290 | | | | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 420 | 120 | 92 | 0.75 U | 0.75 U | 0.75 U | 140 | | 25 | 140 | | | | |
| C4-Chrysene | C4_218-01-9 | ug/kg | 55 | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 30 | | 0.25 U | 0.25 U | | | | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 390 | 140 | 45 | 0.37 U | 0.37 U | 0.37 U | 61 | | 19 | 290 | | | | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 320 | 61 | 41 | 0.75 U | 0.75 U | 0.75 U | 110 | | 15 | 60 | | | | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 220 | 70 | 71 | 0.61 U | 0.61 U | 0.61 U | 62 | | 18 | 55 | | | | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 150 | 55 | 42 | 0.61 U | 0.61 U | 0.61 U | 53 | | 15 | 44 | | | | |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 69.5 | 6.16 | 52.8 | 4.97 U | 4.99 U | 4.96 U | | | | | 205 | 178 | 4.94 U | 12.2 |
| PCB002 | 2051-61-8 | pg/g | 15.1 | 8.36 | 27.2 | 4.97 U | 4.99 U | 4.96 U | | | | | 40.3 | 39.4 | 4.94 U | 10.1 |
| PCB003 | 2051-62-9 | pg/g | 71.9 | 9.29 | 68 | 4.97 U | 4.99 U | 4.96 U | | | | | 129 | 186 | 4.94 U | 15.5 |
| PCB004 & 010 | PCB004_010 | pg/g | 126 | 9.85 U | 467 | 9.94 U | 9.98 U | 9.92 U | | | | | 870 | 587 | 9.87 U | 22.3 |
| PCB005 & 008 | PCB005_008 | pg/g | 794 | 16.3 | 2280 | 9.94 U | 9.98 U | 9.92 U | | | | | 3020 | 2410 | 9.87 U | 97.8 |
| PCB006 | 25569-80-6 | pg/g | 259 | 9.85 U | 395 | 9.94 U | 9.98 U | 9.92 U | | | | | 711 | 424 | 9.87 U | 17.6 |
| PCB007 & 009 | PCB007_009 | pg/g | 64.4 | 9.85 U | 140 | 9.94 U | 9.98 U | 9.92 U | | | | | 246 | 173 | 9.87 U | 10.9 |
| PCB011 | 2050-67-1 | pg/g | 19.1 | 9.85 U | 147 | 9.94 U | 9.98 U | 9.92 U | | | | | 98.2 | 26 | 9.87 U | 11.2 |
| PCB012 & 013 | PCB012_013 | pg/g | 97.8 | 9.85 U | 111 | 9.94 U | 9.98 U | 9.92 U | | | | | 151 | 101 | 9.87 U | 9.91 U |
| PCB014 | 34883-41-5 | pg/g | 9.96 U | 9.85 U | 9.92 U | 9.94 U | 9.98 U | 9.92 U | | | | | 9.87 U | 10.1 U | 9.87 U | 9.91 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C721-D | LW3-C721-E | LW3-C724-B | LW3-C724-C | LW3-C724-E | LW3-C724-G | LW3-C727-B | LW3-C733-B | LW3-C735-B | LW3-C735-C | LW3-C738-B | LW3-C738-C | LW3-C738-D | LW3-C738-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 271 - 362 | 362 - 464 | 30 - 110 | 110 - 190 | 294 - 413 | 476 - 538 | 30 - 129 | 30 - 116 | 30 - 85 | 85 - 166 | 30 - 115 | 115 - 223 | 223 - 343 | 430 - 507 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | 279 | 9.85 U | 1220 | 9.94 U | 9.98 U | 9.92 U | | | | | 1020 | 809 | 9.87 U | 46.6 |
| PCB016 & 032 | PCB016_032 | pg/g | 1240 | 20.7 | 3350 | 5.85 | 4.99 U | 5.08 | | | | | 2660 | 2200 | 4.94 U | 91.9 |
| PCB017 | 37680-66-3 | pg/g | 1100 | 14.9 | 2330 | 4.97 U | 4.99 U | 4.96 U | | | | | 1790 | 1680 | 4.94 U | 63.3 |
| PCB018 | 37680-65-2 | pg/g | 2030 | 31.2 | 5570 | 7.5 | 4.99 U | 5.18 | | | | | 4100 | 3610 | 4.94 U | 141 |
| PCB019 | 38444-73-4 | pg/g | 123 | 4.92 U | 420 | 4.97 U | 4.99 U | 4.96 U | | | | | 414 | 343 | 4.94 U | 11.6 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 1990 | 35.5 | 4940 | 8.29 | 5.48 | 5.46 | | | | | 2640 | 2500 | 6.53 | 147 |
| PCB022 | 38444-85-8 | pg/g | 893 | 14.4 | 2640 | 4.97 U | 4.99 U | 4.96 U | | | | | 1450 | 1250 | 4.94 U | 79.2 |
| PCB023 | 55720-44-0 | pg/g | 4.98 U | 4.92 U | 7.2 | 4.97 U | 4.99 U | 4.96 U | | | | | 5.33 | 5.77 | 4.94 U | 4.95 U |
| PCB024 & 027 | PCB024_027 | pg/g | 114 | 4.92 U | 370 | 4.97 U | 4.99 U | 4.96 U | | | | | 298 | 250 | 4.94 U | 9.36 |
| PCB025 | 55712-37-3 | pg/g | 525 | 9 | 642 | 4.97 U | 4.99 U | 4.96 U | | | | | 470 | 359 | 4.94 U | 18.7 |
| PCB026 | 38444-81-4 | pg/g | 653 | 12.2 | 1140 | 4.97 U | 4.99 U | 4.96 U | | | | | 759 | 574 | 4.94 U | 32.8 |
| PCB028 | 7012-37-5 | pg/g | 3880 | 54.2 | 8210 | 14.9 | 7.77 | 6.46 | | | | | 4060 | 3600 | 12.4 | 252 |
| PCB029 | 15862-07-4 | pg/g | 8.24 | 4.92 U | 47 | 4.97 U | 4.99 U | 4.96 U | | | | | 30.6 | 31.6 | 4.94 U | 4.95 U |
| PCB030 | 35693-92-6 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB031 | 16606-02-3 | pg/g | 3040 | 43.1 | 6560 | 10.5 | 4.99 U | 5.44 | | | | | 3670 | 3040 | 8.62 | 227 |
| PCB034 | 37680-68-5 | pg/g | 51.3 | 4.92 U | 59.8 | 4.97 U | 4.99 U | 4.96 U | | | | | 32.2 | 34.4 | 4.94 U | 4.95 U |
| PCB035 | 37680-69-6 | pg/g | 33.9 | 4.92 U | 72.4 | 4.97 U | 4.99 U | 4.96 U | | | | | 70.4 | 48.2 | 4.94 U | 7.39 |
| PCB036 | 38444-87-0 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB037 | 38444-90-5 | pg/g | 648 | 15.6 | 2150 | 6.7 | 4.99 U | 4.96 U | | | | | 1140 | 980 | 4.94 U | 69.3 |
| PCB038 | 53555-66-1 | pg/g | 45.9 | 4.92 U | 50.5 | 4.97 U | 4.99 U | 4.96 U | | | | | 245 | 25.5 | 4.94 U | 4.95 U |
| PCB039 | 38444-88-1 | pg/g | 38.9 | 4.92 U | 16 | 4.97 U | 4.99 U | 4.96 U | | | | | 12.8 | 14 | 4.94 U | 4.95 U |
| PCB040 | 38444-93-8 | pg/g | 577 | 7.6 | 1220 | 4.97 U | 4.99 U | 4.96 U | | | | | 685 | 413 | 4.94 U | 54.7 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 2920 | 51.1 | 5870 | 12.2 | 4.99 U | 6.18 | | | | | 4670 | 2020 | 15.9 | 383 |
| PCB042 & 059 | PCB042_059 | pg/g | 1250 | 21 | 2190 | 4.97 U | 4.99 U | 4.96 U | | | | | 1180 | 825 | 5.98 | 101 |
| PCB043 & 049 | PCB043_049 | pg/g | 3780 | 71.8 | 5040 | 8.07 | 4.99 U | 4.96 U | | | | | 8800 | 2360 | 75 | 590 |
| PCB044 | 41464-39-5 | pg/g | 3630 | 64.7 | 6520 | 11.1 | 5.53 | 4.98 | | | | | 8290 | 2410 | 23.1 | 664 |
| PCB045 | 70362-45-7 | pg/g | 480 | 7.19 | 1120 | 4.97 U | 4.99 U | 4.96 U | | | | | 466 | 409 | 4.94 U | 29 |
| PCB046 | 41464-47-5 | pg/g | 224 | 4.92 U | 469 | 4.97 U | 4.99 U | 4.96 U | | | | | 264 | 174 | 4.94 U | 14.8 |
| PCB047 | 2437-79-8 | pg/g | 1480 | 26 | 1640 | 4.97 U | 4.99 U | 4.96 U | | | | | 8190 | 794 | 13.4 | 145 |
| PCB048 & 075 | PCB048_075 | pg/g | 624 | 11.1 | 1610 | 4.97 U | 4.99 U | 4.96 U | | | | | 789 | 527 | 4.94 U | 63.6 |
| PCB050 | 62796-65-0 | pg/g | 14.5 | 4.92 U | 26.6 | 4.97 U | 4.99 U | 4.96 U | | | | | 16 | 10.6 | 4.94 U | 4.95 U |
| PCB051 | 68194-04-7 | pg/g | 189 | 4.92 U | 355 | 4.97 U | 4.99 U | 4.96 U | | | | | 2790 | 149 | 4.94 U | 11.1 |
| PCB052 & 069 | PCB052_069 | pg/g | 4010 | 86.4 | 6140 | 11 | 6.22 | 4.96 U | | | | | 15900 | 2870 | 117 | 1560 |
| PCB053 | 41464-41-9 | pg/g | 493 | 7.62 | 999 | 4.97 U | 4.99 U | 4.96 U | | | | | 1940 | 369 | 5.94 | 41 |
| PCB054 | 15968-05-5 | pg/g | 7.28 | 4.92 U | 19.6 | 4.97 U | 4.99 U | 4.96 U | | | | | 187 | 8.82 | 4.94 U | 4.95 U |
| PCB055 | 74338-24-2 | pg/g | 35.1 | 4.92 U | 83.5 | 4.97 U | 4.99 U | 4.96 U | | | | | 276 | 40.3 | 4.94 U | 15.4 |
| PCB056 & 060 | PCB056_060 | pg/g | 1630 | 36.7 | 4070 | 10 | 4.99 U | 4.96 U | | | | | 2520 | 1280 | 9.74 | 297 |
| PCB057 | 70424-67-8 | pg/g | 19.7 | 4.92 U | 34.9 | 4.97 U | 4.99 U | 4.96 U | | | | | 60.5 | 22 | 4.94 U | 5.69 |
| PCB058 | 41464-49-7 | pg/g | 41.4 | 4.92 U | 17.5 | 4.97 U | 4.99 U | 4.96 U | | | | | 62.7 | 23.3 | 4.94 U | 7.12 |
| PCB061 & 070 | PCB061_070 | pg/g | 4550 | 107 | 7370 | 17.1 | 8.43 | 6.51 | | | | | 11300 | 3050 | 31.5 | 1190 |
| PCB062 | 54230-22-7 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB063 | 74472-34-7 | pg/g | 119 | 4.92 U | 259 | 4.97 U | 4.99 U | 4.96 U | | | | | 198 | 111 | 4.94 U | 29 |
| PCB065 | 33284-54-7 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB066 & 076 | PCB066_076 | pg/g | 3920 | 82 | 6050 | 15 | 7.41 | 4.96 U | | | | | 4640 | 2360 | 19.4 | 582 |
| PCB067 | 73575-53-8 | pg/g | 77.7 | 4.92 U | 233 | 4.97 U | 4.99 U | 4.96 U | | | | | 128 | 87.4 | 4.94 U | 13.3 |
| PCB068 | 73575-52-7 | pg/g | 94.9 | 4.92 U | 32.8 | 4.97 U | 4.99 U | 4.96 U | | | | | 111 | 44.5 | 4.94 U | 12.4 |
| PCB073 | 74338-23-1 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB074 | 32690-93-0 | pg/g | 1390 | 32.1 | 3230 | 6.79 | 4.99 U | 4.96 U | | | | | 2830 | 1120 | 6.96 | 305 |
| PCB077 | 32598-13-3 | pg/g | 263 | 7.75 U | 558 | 2.96 U | 2.51 U | 1.72 U | | | | | 733 | 217 | 2.5 U | 35.6 |
| PCB078 | 70362-49-1 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB079 | 41464-48-6 | pg/g | 106 | 4.92 U | 58 | 4.97 U | 4.99 U | 4.96 U | | | | | 359 | 83.2 | 4.94 U | 42.4 |
| PCB080 | 33284-52-5 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB081 | 70362-50-4 | pg/g | 4.74 J | 1.58 U | 18.3 | 0.517 U | 0.92 U | 0.685 U | | | | | 63.8 | 11 | 0.855 U | 6.02 |
| PCB082 | 52663-62-4 | pg/g | 364 | 13 | 687 | 4.97 U | 4.99 U | 4.96 U | | | | | 2980 | 387 | 4.94 U | 280 |
| PCB083 | 60145-20-2 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB084 & 092 | PCB084_092 | pg/g | 2140 | 64.5 UJ | 1860 | 5.91 | 4.99 U | 4.96 U | | | | | 13400 | 2660 | 63.2 | 1800 |
| PCB085 & 116 | PCB085_116 | pg/g | 550 | 21.3 | 900 | 4.97 U | 4.99 U | 4.96 U | | | | | 3980 | 573 | 5.84 | 440 |
| PCB086 | 55312-69-1 | pg/g | 10.5 | 4.92 U | 47.6 | 4.97 U | 4.99 U | 4.96 U | | | | | 62.1 | 8.17 | 4.94 U | 6 |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 990 | 41 | 1530 | 4.97 U | 4.99 U | 4.96 U | | | | | 11500 | 1370 | 14.6 | 1180 |
| PCB088 & 091 | PCB088_091 | pg/g | 894 | 26.2 | 783 | 4.97 U | 4.99 U | 4.96 U | | | | | 7710 | 736 | 19.5 | 362 |
| PCB089 | 73575-57-2 | pg/g | 45.5 | 4.92 U | 106 | 4.97 U | 4.99 U | 4.96 U | | | | | 174 | 39.1 | 4.94 U | 16.1 |
| PCB090 & 101 | PCB090_101 | pg/g | 5060 | 176 | 4000 | 13 | 6.34 | 5.38 | | | | | 35900 | 7850 | 132 | 5730 |
| PCB093 | 73575-56-1 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB094 | 73575-55-0 | pg/g | 24.5 | 4.92 U | 36.9 | 4.97 U | 4.99 U | 4.96 U | | | | | 517 | 20.5 | 4.94 U | 8.74 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 3830 | 121 | 3400 | 8.2 | 4.99 U | 4.96 U | | | | | 28000 | 5700 | 163 | 4010 |
| PCB096 | 73575-54-9 | pg/g | 42.1 | 4.92 U | 73.3 | 4.97 U | 4.99 U | 4.96 U | | | | | 638 | 34.1 | 4.94 U | 11.8 |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C721-D | LW3-C721-E | LW3-C724-B | LW3-C724-C | LW3-C724-E | LW3-C724-G | LW3-C727-B | LW3-C733-B | LW3-C735-B | LW3-C735-C | LW3-C738-B | LW3-C738-C | LW3-C738-D | LW3-C738-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 271 - 362 | 362 - 464 | 30 - 110 | 110 - 190 | 294 - 413 | 476 - 538 | 30 - 129 | 30 - 116 | 30 - 85 | 85 - 166 | 30 - 115 | 115 - 223 | 223 - 343 | 430 - 507 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | 1210 | 41.4 | 1390 | 4.97 U | 4.99 U | 4.96 U | | | | | 8120 | 1190 | 12.3 | 840 |
| PCB099 | 38380-01-7 | pg/g | 2620 | 84.3 | 1930 | 5.76 | 4.99 U | 4.96 U | | | | | 13800 | 2730 | 50.7 | 1680 |
| PCB100 | 39485-83-1 | pg/g | 57.6 | 4.92 U | 26.3 | 4.97 U | 4.99 U | 4.96 U | | | | | 2230 | 66.8 | 4.94 U | 15.4 |
| PCB103 | 60145-21-3 | pg/g | 146 | 4.92 U | 53.4 | 4.97 U | 4.99 U | 4.96 U | | | | | 1120 | 227 | 12.4 | 101 |
| PCB104 | 56558-16-8 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 90.7 | 5.03 U | 4.94 U | 4.95 U |
| PCB105 | 32598-14-4 | pg/g | 676 | 32.5 | 1230 | 5.37 | 3.55 J | 2.21 J | | | | | 7980 | 889 | 11.1 | 791 |
| PCB106 & 118 | PCB106_118 | pg/g | 3130 | 135 | 3240 | 17 | 9.45 | 6.36 | | | | | 24500 | 3910 | 43.9 | 3060 |
| PCB107 & 109 | PCB107_109 | pg/g | 354 | 13.7 | 274 | 4.97 U | 4.99 U | 4.96 U | | | | | 1860 | 445 | 8.16 | 300 |
| PCB108 & 112 | PCB108_112 | pg/g | 209 | 7.27 | 229 | 4.97 U | 4.99 U | 4.96 U | | | | | 1180 | 221 | 4.94 U | 140 |
| PCB110 | 38380-03-9 | pg/g | 5100 | 185 | 4800 | 14 | 6.25 | 4.96 U | | | | | 37000 | 6280 | 84.9 | 4530 |
| PCB111 & 115 | PCB111_115 | pg/g | 40.7 | 4.92 U | 79.6 | 4.97 U | 4.99 U | 4.96 U | | | | | 573 | 60 | 4.94 U | 39.1 |
| PCB113 | 68194-10-5 | pg/g | 22.6 | 4.92 U | 35 | 4.97 U | 4.99 U | 4.96 U | | | | | 114 | 26.7 | 4.94 U | 39.8 |
| PCB114 | 74472-37-0 | pg/g | 40 | 2.23 U | 82.7 | 1.39 U | 1.37 U | 1.23 U | | | | | 488 | 47 | 2.03 U | 33.8 |
| PCB119 | 56558-17-9 | pg/g | 230 | 6.43 | 113 | 4.97 U | 4.99 U | 4.96 U | | | | | 1460 | 282 | 7.45 | 158 |
| PCB120 | 68194-12-7 | pg/g | 65.4 | 4.92 U | 16.2 | 4.97 U | 4.99 U | 4.96 U | | | | | 133 | 57.7 | 4.94 U | 42.1 |
| PCB121 | 56558-18-0 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB122 | 76842-07-4 | pg/g | 28.6 | 4.92 U | 51 | 4.97 U | 4.99 U | 4.96 U | | | | | 227 | 30.9 | 4.94 U | 19 |
| PCB123 | 65510-44-3 | pg/g | 36.1 | 3.14 U | 67.9 | 1.12 U | 1.47 U | 1.76 U | | | | | 342 | 36.8 | 1.87 U | 29.9 |
| PCB124 | 70424-70-3 | pg/g | 82.3 | 4.92 U | 131 | 4.97 U | 4.99 U | 4.96 U | | | | | 1210 | 106 | 4.94 U | 112 |
| PCB126 | 57465-28-8 | pg/g | 14.8 | 2.61 U | 19.7 | 1.38 U | 1.39 U | 1.25 U | | | | | 167 | 21.3 | 1.89 U | 15 |
| PCB127 | 39635-33-1 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB128 & 162 | PCB128_162 | pg/g | 519 | 28.3 | 399 | 4.97 U | 4.99 U | 4.96 U | | | | | 4520 | 888 | 7.99 | 715 |
| PCB129 | 55215-18-4 | pg/g | 120 | 7.49 | 115 | 4.97 U | 4.99 U | 4.96 U | | | | | 1410 | 226 | 4.94 U | 179 |
| PCB130 | 52663-66-8 | pg/g | 347 | 16.2 | 191 | 4.97 U | 4.99 U | 4.96 U | | | | | 2210 | 664 | 12.8 | 562 |
| PCB131 | 61798-70-7 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB132 & 161 | PCB132_161 | pg/g | 1360 | 54.7 | 802 | 4.97 U | 4.99 U | 4.96 U | | | | | 9780 | 3060 | 27.1 | 2350 |
| PCB133 & 142 | PCB133_142 | pg/g | 185 | 7.77 | 86.5 | 4.97 U | 4.99 U | 4.96 U | | | | | 1310 | 376 | 9.26 | 292 |
| PCB134 & 143 | PCB134_143 | pg/g | 219 | 10.6 | 143 | 4.97 U | 4.99 U | 4.96 U | | | | | 1750 | 481 | 5.27 | 386 |
| PCB135 | 52744-13-5 | pg/g | 990 | 34.6 | 443 | 4.97 U | 4.99 U | 4.96 U | | | | | 6290 | 2210 | 38.2 | 1570 |
| PCB136 | 38411-22-2 | pg/g | 915 | 32.4 | 449 | 4.97 U | 4.99 U | 4.96 U | | | | | 6280 | 2100 | 30.3 | 1480 |
| PCB137 | 35694-06-5 | pg/g | 117 | 7.66 | 119 | 4.97 U | 4.99 U | 4.96 U | | | | | 1500 | 207 | 4.94 U | 152 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 4720 | 211 | 2780 | 17.2 | 5.48 | 4.96 U | | | | | 34300 | 11100 | 103 | 9070 |
| PCB139 & 149 | PCB139_149 | pg/g | 5520 | 223 | 2740 | 14.4 | 4.99 U | 4.96 U | | | | | 35600 | 12800 | 149 | 9390 |
| PCB140 | 59291-64-4 | pg/g | 73.4 | 4.92 U | 24.6 | 4.97 U | 4.99 U | 4.96 U | | | | | 505 | 139 | 5.3 | 103 |
| PCB141 | 52712-04-6 | pg/g | 825 | 36.1 | 546 | 4.97 U | 4.99 U | 4.96 U | | | | | 6360 | 2400 | 13.9 | 1940 |
| PCB144 | 68194-14-9 | pg/g | 229 | 10.1 UJ | 151 | 4.97 U | 4.99 U | 4.96 U | | | | | 1750 | 665 | 5.78 UJ | 575 |
| PCB145 | 74472-40-5 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 10.7 | 5.03 U | 4.94 U | 4.95 U |
| PCB146 & 165 | PCB146_165 | pg/g | 1210 | 49.6 | 449 | 6.38 | 4.99 U | 4.96 U | | | | | 7040 | 2580 | 52.5 | 1950 |
| PCB147 | 68194-13-8 | pg/g | 103 | 4.92 U | 68.2 | 4.97 U | 4.99 U | 4.96 U | | | | | 2700 | 177 | 5.16 | 76.4 |
| PCB148 | 74472-41-6 | pg/g | 40.2 | 4.92 U | 8.21 | 4.97 U | 4.99 U | 4.96 U | | | | | 301 | 72.2 | 4.94 U | 42.2 |
| PCB150 | 68194-08-1 | pg/g | 37.6 | 4.92 U | 7.62 | 4.97 U | 4.99 U | 4.96 U | | | | | 662 | 53.1 | 4.94 U | 12.1 |
| PCB151 | 52663-63-5 | pg/g | 1550 | 61.7 | 799 | 4.97 U | 4.99 U | 4.96 U | | | | | 10500 | 4340 | 52.4 | 3170 |
| PCB152 | 68194-09-2 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 119 | 5.6 | 4.94 U | 4.95 U |
| PCB153 | 35065-27-1 | pg/g | 5720 | 247 | 2750 | 17.9 | 4.99 U | 4.96 U | | | | | 36300 | 13800 | 144 | 10600 |
| PCB154 | 60145-22-4 | pg/g | 258 | 9.4 | 64.4 | 4.97 U | 4.99 U | 4.96 U | | | | | 3110 | 407 | 13 | 260 |
| PCB155 | 33979-03-2 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 36.2 | 5.03 U | 4.94 U | 4.95 U |
| PCB156 | 38380-08-4 | pg/g | 337 | 17.7 | 253 | 2.12 J | 1.33 U | 1.14 J | | | | | 3150 | 713 | 5.43 | 583 |
| PCB157 | 69782-90-7 | pg/g | 52.5 | 3.1 J | 51.8 | 0.848 U | 0.847 U | 0.749 U | | | | | 604 | 87.8 | 0.784 U | 71.7 |
| PCB158 & 160 | PCB158_160 | pg/g | 351 | 14.9 | 289 | 4.97 U | 4.99 U | 4.96 U | | | | | 3660 | 901 | 6.31 | 812 |
| PCB159 | 39635-35-3 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB166 | 41411-63-6 | pg/g | 7.64 | 4.92 U | 9.44 | 4.97 U | 4.99 U | 4.96 U | | | | | 110 | 11.7 | 4.94 U | 8.45 |
| PCB167 | 52663-72-6 | pg/g | 135 | 7.64 | 101 | 1.05 J | 0.847 U | 0.717 U | | | | | 1180 | 283 | 2.27 J | 231 |
| PCB168 | 59291-65-5 | pg/g | 11.2 | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 90.1 | 21.4 | 4.94 U | 16.1 |
| PCB169 | 32774-16-6 | pg/g | 1.57 U | 1.58 U | 2.2 J | 0.799 U | 0.88 U | 0.716 U | | | | | 3.73 J | 3.03 U | 0.865 U | 1.65 U |
| PCB170 | 35065-30-6 | pg/g | 1620 | 72.8 | 762 | 6.44 | 4.99 U | 4.96 U | | | | | 9800 | 4390 | 28.5 | 3510 |
| PCB171 | 52663-71-5 | pg/g | 468 | 20.9 | 218 | 4.97 U | 4.99 U | 4.96 U | | | | | 2630 | 1250 | 9.8 | 1040 |
| PCB172 | 52663-74-8 | pg/g | 294 | 17.8 | 136 | 4.97 U | 4.99 U | 4.96 U | | | | | 1650 | 777 | 6.6 | 617 |
| PCB173 | 68194-16-1 | pg/g | 36.4 | 4.92 U | 20.5 | 4.97 U | 4.99 U | 4.96 U | | | | | 238 | 106 | 4.94 U | 82.9 |
| PCB174 | 38411-25-5 | pg/g | 2050 | 104 | 971 | 7.37 | 4.99 U | 4.96 U | | | | | 11600 | 5790 | 38.8 | 4390 |
| PCB175 | 40186-70-7 | pg/g | 104 | 5.21 | 46.6 | 4.97 U | 4.99 U | 4.96 U | | | | | 492 | 285 | 4.94 U | 237 |
| PCB176 | 52663-65-7 | pg/g | 295 | 14.7 | 134 | 4.97 U | 4.99 U | 4.96 U | | | | | 1670 | 822 | 7.75 | 658 |
| PCB177 | 52663-70-4 | pg/g | 1190 | 51.4 | 539 | 4.97 U | 4.99 U | 4.96 U | | | | | 6950 | 3250 | 27.7 | 2500 |
| PCB178 | 52663-67-9 | pg/g | 479 | 30.6 | 204 | 4.97 U | 4.99 U | 4.96 U | | | | | 2870 | 1250 | 15.2 | 914 |
| PCB179 | 52663-64-6 | pg/g | 1030 | 56.3 | 459 | 4.97 U | 4.99 U | 4.96 U | | | | | 6100 | 2870 | 26.6 | 2110 |
| PCB180 | 35065-29-3 | pg/g | 4430 | 234 | 2020 | 14 | 4.99 U | 4.96 U | | | | | 25000 | 11800 | 78.5 | 9430 |
| PCB181 | 74472-47-2 | pg/g | 12.2 | 4.92 U | 6.44 | 4.97 U | 4.99 U | 4.96 U | | | | | 64.6 | 50.2 | 4.94 U | 37.8 |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C721-D | LW3-C721-E | LW3-C724-B | LW3-C724-C | LW3-C724-E | LW3-C724-G | LW3-C727-B | LW3-C733-B | LW3-C735-B | LW3-C735-C | LW3-C738-B | LW3-C738-C | LW3-C738-D | LW3-C738-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 271 - 362 | 362 - 464 | 30 - 110 | 110 - 190 | 294 - 413 | 476 - 538 | 30 - 129 | 30 - 116 | 30 - 85 | 85 - 166 | 30 - 115 | 115 - 223 | 223 - 343 | 430 - 507 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 2950 | 170 | 1270 | 12.1 | 4.99 U | 4.96 U | | | | | 18100 | 7680 | 75.4 | 5890 |
| PCB183 | 52663-69-1 | pg/g | 1220 | 64.7 | 525 | 5.28 | 4.99 U | 4.96 U | | | | | 6730 | 3260 | 28 | 2700 |
| PCB184 | 74472-48-3 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 14.8 | 5.03 U | 4.94 U | 4.95 U |
| PCB185 | 52712-05-7 | pg/g | 209 | 12 | 104 | 4.97 U | 4.99 U | 4.96 U | | | | | 1160 | 606 | 4.94 U | 461 |
| PCB186 | 74472-49-4 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB188 | 74487-85-7 | pg/g | 7.32 | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 122 | 10 | 4.94 U | 4.95 U |
| PCB189 | 39635-31-9 | pg/g | 58.3 | 3.19 J | 30.3 | 0.639 J | 0.441 U | 0.536 U | | | | | 364 | 149 | 1.02 J | 127 |
| PCB190 | 41411-64-7 | pg/g | 335 | 15.5 | 162 | 4.97 U | 4.99 U | 4.96 U | | | | | 2090 | 936 | 6.12 | 709 |
| PCB191 | 74472-50-7 | pg/g | 66.8 | 4.92 U | 33.5 | 4.97 U | 4.99 U | 4.96 U | | | | | 413 | 191 | 4.94 U | 155 |
| PCB192 | 74472-51-8 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB193 | 69782-91-8 | pg/g | 210 | 11.1 | 96.5 | 4.97 U | 4.99 U | 4.96 U | | | | | 1330 | 591 | 5.04 | 448 |
| PCB194 | 35694-08-7 | pg/g | 1010 | 84.6 | 448 | 5.01 | 4.99 U | 4.96 U | | | | | 5920 | 2490 | 16.7 | 2040 |
| PCB195 | 52663-78-2 | pg/g | 438 | 22.8 | 179 | 4.97 U | 4.99 U | 4.96 U | | | | | 2760 | 1110 | 6.63 | 928 |
| PCB196 & 203 | PCB196_203 | pg/g | 1590 | 182 | 653 | 6.56 | 4.99 U | 4.96 U | | | | | 7710 | 3400 | 26.3 | 2820 |
| PCB197 | 33091-17-7 | pg/g | 46.8 | 4.92 U | 20 | 4.97 U | 4.99 U | 4.96 U | | | | | 248 | 109 | 4.94 U | 96 |
| PCB198 | 68194-17-2 | pg/g | 86.4 | 13 | 35 | 4.97 U | 4.99 U | 4.96 U | | | | | 339 | 159 | 4.94 U | 174 |
| PCB199 | 52663-75-9 | pg/g | 1460 | 238 | 639 | 7.35 | 4.99 U | 4.96 U | | | | | 6800 | 3130 | 30 | 2510 |
| PCB200 | 52663-73-7 | pg/g | 188 | 15 | 75.7 | 4.97 U | 4.99 U | 4.96 U | | | | | 883 | 429 | 4.94 U | 338 |
| PCB201 | 40186-71-8 | pg/g | 175 | 24.8 | 73.9 | 4.97 U | 4.99 U | 4.96 U | | | | | 814 | 379 | 4.94 U | 312 |
| PCB202 | 2136-99-4 | pg/g | 275 | 67.2 | 120 | 4.97 U | 4.99 U | 4.96 U | | | | | 1090 | 517 | 6.47 | 417 |
| PCB204 | 74472-52-9 | pg/g | 4.98 U | 4.92 U | 4.96 U | 4.97 U | 4.99 U | 4.96 U | | | | | 4.93 U | 5.03 U | 4.94 U | 4.95 U |
| PCB205 | 74472-53-0 | pg/g | 42.4 | 4.92 U | 19 | 4.97 U | 4.99 U | 4.96 U | | | | | 271 | 112 | 4.94 U | 86.5 |
| PCB206 | 40186-72-9 | pg/g | 818 | 539 | 372 | 5.25 | 4.99 U | 4.96 U | | | | | 1370 | 851 | 23.6 | 871 |
| PCB207 | 52663-79-3 | pg/g | 84.3 | 42.7 | 38.6 | 4.97 U | 4.99 U | 4.96 U | | | | | 185 | 101 | 4.94 U | 116 |
| PCB208 | 52663-77-1 | pg/g | 262 | 221 | 129 | 4.97 U | 4.99 U | 4.96 U | | | | | 254 | 218 | 9.27 | 236 |
| PCB209 | 2051-24-3 | pg/g | 983 | 906 | 515 | 11.1 | 4.99 U | 4.96 U | | | | | 180 | 546 | 31 | 856 |
| Total PCB Congeners | 1336-36-3 | pg/g | 129000 JT | 6130 JT | 151000 JT | 354 JT | 71.9 JT | 60.4 JT | | | | | 627000 JT | 204000 T | 2170 JT | 128000 T |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 1.64 JT | 0.00597 JT | 2.25 JT | 0.00079 JT | 0.00039 JT | 0.00029 JT | | | | | 18.1 JT | 2.34 T | 0.00191 JT | 1.65 T |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 157 T | 23.8 T | 148 T | 4.97 UT | 4.99 UT | 4.96 UT | | | | | 374 T | 403 T | 4.94 UT | 37.8 T |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 1640 T | 16.3 T | 4760 T | 9.94 UT | 9.98 UT | 9.92 UT | | | | | 6120 T | 4530 T | 9.87 UT | 206 T |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 16400 T | 251 T | 38600 T | 53.7 T | 13.3 T | 27.6 T | | | | | 23800 T | 20500 T | 27.6 T | 1150 T |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 31900 JT | 612 T | 55200 T | 91.3 T | 27.6 T | 17.7 T | | | | | 77400 T | 21800 T | 324 T | 6200 T |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 28000 T | 904 T | 27200 T | 69.2 T | 25.6 JT | 14 JT | | | | | 207000 T | 36000 T | 629 T | 25800 T |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 26000 T | 1080 JT | 13800 JT | 59.1 JT | 5.48 T | 1.14 JT | | | | | 183000 JT | 60800 T | 683 JT | 46600 T |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 17100 T | 884 JT | 7740 T | 45.8 JT | 4.99 UT | 4.96 UT | | | | | 99400 T | 46100 T | 355 JT | 36000 T |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 5310 T | 647 T | 2260 T | 18.9 T | 4.99 UT | 4.96 UT | | | | | 26800 T | 11800 T | 86.1 T | 9720 T |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 1160 T | 803 T | 540 T | 5.25 T | 4.99 UT | 4.96 UT | | | | | 1810 T | 1170 T | 32.9 T | 1220 T |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 8.3 J | 0.16 U | 5.5 NJ | 0.16 U | 0.16 U | 0.16 U | 1.7 NJ | 0.62 NJ | 1.2 NJ | 5.4 J | 5.7 | 6.3 NJ | 0.16 U | 3.4 NJ |
| 2,4'-DDE | 3424-82-6 | ug/kg | 2.2 U | 0.16 J | 0.91 U | 0.1 J | 0.046 U | 0.046 U | 0.64 U | 0.25 U | 0.39 U | 0.62 U | 0.17 U | 0.79 U | 0.12 J | 1.2 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 6.6 | 0.22 U | 3 | 0.061 U | 0.083 U | 0.061 U | 2.1 NJ | 0.43 J | 0.74 U | 1.6 U | 3.7 U | 8.7 NJ | 0.061 U | 7.9 NJ |
| 4,4'-DDD | 72-54-8 | ug/kg | 19 | 0.19 | 6.2 | 0.13 U | 0.073 U | 0.073 U | 0.69 J | 0.3 | 2.4 | 12 | 4.1 J | 6.5 | 0.19 J | 10 |
| 4,4'-DDE | 72-55-9 | ug/kg | 24 J | 0.44 J | 13 J | 0.13 U | 0.027 U | 0.027 U | 1.4 J | 0.68 J | 3.4 | 7.9 J | 4.5 J | 9 J | 0.027 U | 11 NJ |
| 4,4'-DDT | 50-29-3 | ug/kg | 5.9 | 0.47 NJ | 3.3 | 0.18 U | 0.18 U | 0.18 U | 2.1 U | 0.53 U | 1.1 U | 5.7 U | 15 | 11 J | 0.18 U | 7.3 U |
| Aldrin | 309-00-2 | ug/kg | 0.6 U | 0.12 U | 0.41 U | 0.12 U | 0.12 U | 0.12 U | 0.26 U | 0.12 U | 0.18 U | 0.27 U | 0.12 U | 0.21 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.32 J | 0.037 U | 0.22 U | 0.037 U | 0.037 U | 0.037 U | 0.15 U | 0.088 U | 0.18 J | 0.16 U | 0.14 U | 0.037 U | 0.037 U | 0.037 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.49 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.1 U | 0.097 U | 0.11 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.12 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 1.1 J | 0.16 U | 0.19 U | 0.031 U | 0.031 U | 0.031 U | 0.26 U | 0.14 J | 0.2 U | 0.39 U | 0.72 U | 1.1 U | 0.031 U | 0.7 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.7 U | 0.16 U | 0.19 U | 0.14 U | 0.14 U | 0.24 U | 0.17 U | 0.14 U | 0.14 U | 0.14 U | 0.17 U | 0.17 U | 0.14 U | 0.23 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.19 U | 0.031 U | 2.1 U | 0.031 U | 0.031 U | 0.031 U | 0.06 U | 0.031 U | 0.4 | 0.18 U | 0.17 U | 0.36 U | 0.031 U | 0.18 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 4.4 U | 0.13 U | 2.1 U | 0.087 U | 0.087 U | 0.087 U | 1.5 U | 0.69 U | 0.62 U | 4.3 U | 2.9 U | 4.6 U | 0.087 U | 5.3 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.55 U | 0.11 U | 0.19 U | 0.11 U | 0.11 U | 0.11 U | 0.12 NJ | 0.11 U | 0.11 U | 0.11 U | 0.43 U | 0.19 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.15 U | 0.16 U | 0.2 U | 0.03 U | 0.16 U | 0.03 U | 0.17 U | 0.14 U | 0.3 NJ | 0.79 U | 0.17 U | 0.03 U | 0.03 U | 0.03 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.29 U | 0.058 U | 0.39 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.37 U | 0.18 U | 0.17 U | 0.18 U | 0.058 U | 0.058 U |
| Endrin | 72-20-8 | ug/kg | 0.41 U | 0.08 U | 0.19 U | 0.071 U | 0.071 U | 0.071 U | 0.17 U | 0.071 U | 0.071 U | 0.18 U | 0.35 U | 0.33 U | 0.071 U | 0.21 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.21 U | 0.042 U | 0.19 U | 0.042 U | 0.042 U | 0.042 U | 0.37 U | 0.2 U | 0.31 U | 0.83 U | 2 U | 0.57 U | 0.042 U | 0.18 U |
| Endrin ketone | 53494-70-5 | ug/kg | 1.1 U | 0.17 U | 0.46 U | 0.029 U | 0.029 U | 0.029 U | 0.33 U | 0.16 U | 0.28 U | 0.87 U | 3 U | 1.8 U | 0.029 U | 1.1 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.75 U | 0.17 U | 0.21 NJ | 0.062 U | 0.14 U | 0.54 U | 0.27 U | 0.074 U | 0.2 U | 0.34 U | 0.17 U | 0.54 J | 0.062 U | 0.46 U |
| Heptachlor | 76-44-8 | ug/kg | 0.38 U | 0.13 U | 0.49 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.23 U | 0.3 U | 0.076 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 1.5 NJ | 0.19 U | 0.51 U | 0.068 U | 0.16 U | 0.068 U | 0.35 U | 0.14 U | 0.2 U | 0.23 U | 0.82 U | 0.92 U | 0.068 U | 0.22 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.87 U | 0.2 U | 0.81 U | 0.075 U | 0.075 U | 0.075 U | 0.31 U | 0.075 U | 0.44 U | 0.4 U | 1.7 U | 1.1 U | 0.075 U | 0.98 U |
| Mirex | 2385-85-5 | ug/kg | 0.6 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.31 U | 0.061 U | 0.2 U | 0.12 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.091 U | 0.21 U | 0.3 | 0.17 U | 0.061 U | 0.36 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 4.9 JT | 0.13 UT | 5.8 JT | 0.12 UT | 0.15 JT | 0.087 UT | 1.5 UT | 0.69 UT | 1.4 T | 2 JT | 5.1 JT | 3.2 JT | 0.13 UT | 5.3 UT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C721-D | LW3-C721-E | LW3-C724-B | LW3-C724-C | LW3-C724-E | LW3-C724-G | LW3-C727-B | LW3-C733-B | LW3-C735-B | LW3-C735-C | LW3-C738-B | LW3-C738-C | LW3-C738-D | LW3-C738-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 271 - 362 | 362 - 464 | 30 - 110 | 110 - 190 | 294 - 413 | 476 - 538 | 30 - 129 | 30 - 116 | 30 - 85 | 85 - 166 | 30 - 115 | 115 - 223 | 223 - 343 | 430 - 507 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 1.4 JT | 0.16 UT | 0.39 UT | 0.058 UT | 0.058 UT | 0.058 UT | 0.26 UT | 0.14 JT | 0.18 JT | 0.39 UT | 0.72 UT | 1.1 UT | 0.058 UT | 0.7 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 27 JT | 0.19 T | 12 JT | 0.16 UT | 0.16 UT | 0.16 UT | 2.4 JT | 0.92 JT | 3.6 JT | 17 JT | 9.8 JT | 13 JT | 0.19 JT | 13 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 64 JT | 1.3 JT | 31 JT | 0.1 JT | 0.18 UT | 0.18 UT | 5.9 JT | 2 JT | 7 JT | 25 JT | 29 JT | 42 JT | 0.31 JT | 32 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 24 JT | 0.6 JT | 13 JT | 0.1 JT | 0.046 UT | 0.046 UT | 1.4 JT | 0.68 JT | 3.4 T | 7.9 JT | 4.5 JT | 9 JT | 0.12 JT | 11 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 13 T | 0.47 JT | 6.3 T | 0.18 UT | 0.18 UT | 0.18 UT | 2.1 JT | 0.43 JT | 1.1 UT | 5.7 UT | 15 T | 20 JT | 0.18 UT | 7.9 JT |
| Toxaphene | 8001-35-2 | ug/kg | 80 U | 28 U | 51 U | 3.4 U | 4.7 U | 5.1 U | 13 U | 15 U | 18 U | 79 U | 66 U | 82 U | 3.4 U | 68 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 4.9 NJ | 0.033 U | 4.3 | 0.027 U | 0.027 U | 0.048 U | 0.17 U | 0.14 U | 0.75 | 2 NJ | 4.8 J | 3.2 NJ | 0.13 U | 1.3 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.75 U | 0.034 U | 1.5 J | 0.034 U | 0.15 NJ | 0.034 U | 0.17 U | 0.042 U | 0.29 | 0.18 U | 0.21 U | 0.034 U | 0.034 U | 0.16 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 390 J | 305 JT | 140 J | 1.75 JT | 2.9 J | 2 J | 180 J | 50 J | 82 J | 280 J | 165 JT | 250 J | 7 U | 420 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 360 J | 265 JT | 120 J | 1.6 UT | 1.9 U | 1.8 U | 160 J | 49 J | 67 J | 250 J | 104 JT | 230 J | 5.5 J | 390 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 770 J | 790 JT | 540 J | 8.6 JT | 29 J | 30 J | 510 J | 130 J | 380 J | 640 J | 540 JT | 590 J | 33 U | 930 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 690 J | 570 JT | 370 J | 3.7 UT | 9.1 J | 5.4 J | 380 J | 100 J | 220 J | 460 J | 240 JT | 470 J | 15 J | 750 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 1160 JA | 1100 JA | 680 JA | 10.4 JA | 31.9 JA | 32 JA | 690 JA | 180 JA | 462 JA | 920 JA | 705 JA | 840 JA | 33 UA | 1350 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 1050 JA | 835 JA | 490 JA | 3.7 UA | 9.1 JA | 5.4 JA | 540 JA | 149 JA | 287 JA | 710 JA | 344 JA | 700 JA | 20.5 JA | 1140 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.31 U | 0.31 U | 0.37 U | 0.26 U | 0.32 U | 0.32 U | 0.34 U | 0.29 U | 0.4 U | 0.67 U | 0.34 U | 0.34 U | 0.26 U | 0.31 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.25 U | 0.25 U | 0.3 U | 0.21 U | 0.26 U | 1.6 U | 0.27 U | 0.23 U | 0.32 U | 1.2 U | 0.27 U | 1.7 NJ | 0.21 U | 0.26 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 2.7 U | 2.5 U | 8.8 U | 6.1 U | 7.6 U | 7.5 U | 7.9 U | 0.74 U | 9.5 U | 3.9 U | 4.4 U | 4.3 U | 6.1 U | 3 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.44 J | 0.17 U | 0.2 U | 0.14 U | 0.17 U | 0.19 U | 0.18 U | 0.23 J | 0.27 J | 1.2 J | 0.18 U | 0.55 J | 0.15 U | 1.4 J |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U | 2 U | 1 U | 5 U | 1 U | 5 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 28 U | 28 U | 5.5 U | 5.5 U | 5.5 U | 5.5 U | R | R | R | R | 5.5 U | 28 U | 5.5 U | 28 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 85 UJ | 85 UJ | 17 UJ | 17 UJ | 17 UJ | 17 UJ | 34 U | 17 U | 17 U | 34 U | 17 U | 85 U | 17 U | 85 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 4 U | 2 U | 2 U | 4 U | 2 U | 10 U | 2 U | 10 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 7.5 U | 1.5 U | 7.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 7.5 U | 1.5 U | 7.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 7 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 7 U | 1.4 U | 7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 7 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 7 U | 1.4 U | 7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 35 J | 100 | 9.3 | 1.5 U | 1.5 U | 1.5 U | 15 J | 1.5 U | 7.3 J | 26 | 81 | 190 | 4.4 J | 7.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 90 U | 90 U | 18 U | 18 U | 18 U | 18 U | 36 U | 18 U | 18 U | 36 U | 18 U | 90 U | 18 U | 90 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 1.7 J | 0.24 U | 2.6 J | 0.2 U | 0.25 U | 0.24 U | 1.1 NJ | 0.98 NJ | 1 J | 2.6 J | 4.6 NJ | 9.1 | 0.2 U | 1.4 J |
| Phenol | 108-95-2 | ug/kg | 10 U | 10 U | 19 J | 6.1 J | 14 J | 11 J | 4 U | 11 U | 2 U | 4 U | 2 U | 10 U | 2 U | 10 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 35 U | 35 U | 150 | 7 U | 7 U | 7 U | 130 | 14 J | 32 | 14 U | 71 | 35 U | 7 U | 35 U |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 16 U | 16 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 6.4 U | 3.2 U | 3.2 U | 6.4 U | 3.2 U | 16 U | 3.2 U | 16 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 40 U | 40 U | 11 | 10 | 7.9 U | 7.9 U | 16 U | 23 | 8.1 J | 16 U | 18 | 40 U | 10 | 40 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 6.5 U | 6.5 U | 1.3 U | 1.4 J | 1.4 J | 1.3 U | 2.6 U | 3.1 J | 1.3 U | 2.6 U | 1.3 U | 6.5 U | 1.3 U | 6.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U | 2 U | 1 U | 5 U | 1 U | 5 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 8.5 U | 8.5 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 3.4 U | 1.7 U | 1.7 U | 3.4 U | 1.7 U | 8.5 U | 1.7 U | 8.5 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 13 U | 13 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 5.2 U | 2.6 U | 2.6 U | 5.2 U | 2.6 U | 13 U | 2.6 U | 13 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 15 U | 15 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 5.8 U | 2.9 U | 2.9 U | 5.8 U | 2.9 U | 15 U | 2.9 U | 15 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 15 U | 15 U | 3 U | 3 U | 3 U | 3 U | 6 U | 3 U | 3 U | 6 U | 3 U | 15 U | 3 U | 15 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 15 U | 15 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 5.8 U | 2.9 U | 2.9 U | 5.8 U | 9.2 U | 15 U | 2.9 U | 15 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 7.5 U | 1.5 U | 7.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 10 U | 10 U | 2 U | 2 U | 2 U | 2 U | 4 U | 2 U | 2 U | 4 U | 2 U | 10 U | 2 U | 10 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 8 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 8 U | 1.6 U | 8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 16 U | 16 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 6.4 U | 3.2 U | 3.2 U | 6.4 U | 3.2 U | 16 U | 3.2 U | 16 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 19 U | 19 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 7.4 U | 3.7 U | 3.7 U | 7.4 U | R | 19 U | 3.7 U | 19 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 13 U | 13 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | 2.5 U | 5 U | 2.5 UJ | 13 U | 2.5 U | 13 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 8 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 8 U | 1.6 U | 8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 9.5 U | 9.5 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 3.8 U | 1.9 U | 1.9 U | 3.8 U | 1.9 U | 9.5 U | 1.9 U | 9.5 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 7 U | 7 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 7 U | 1.4 U | 7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 9 U | 9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 3.6 U | 1.8 U | 1.8 U | 3.6 U | 1.8 U | 9 U | 1.8 U | 9 U |
| Aniline | 62-53-3 | ug/kg | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | R | R | R | R | 1.5 UJ | 7.5 U | 1.5 U | 7.5 U |
| Azobenzene | 103-33-3 | ug/kg | 5.5 U | 5.5 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 2.2 U | 1.1 U | 1.1 U | 2.2 U | 1.1 U | 5.5 U | 1.1 U | 5.5 U |
| Benzoic acid | 65-85-0 | ug/kg | R | R | 190 J | R | R | R | 200 U | 96 UJ | 120 J | 200 U | R | R | R | R |
| Benzyl alcohol | 100-51-6 | ug/kg | 11 U | 11 U | 9.9 | 3.4 J | 6.2 J | 3.7 J | 4.2 U | 4.7 J | 8.4 J | 5.1 J | 2.1 U | 11 U | 2.1 U | 11 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 7.5 U | 7.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 7.5 U | 1.5 U | 7.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 9.5 U | 9.5 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 3.8 U | 1.9 U | 1.9 U | 3.8 U | 1.9 U | 9.5 U | 1.9 U | 9.5 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 13 U | 13 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 5.2 U | 2.6 U | 2.6 U | 5.2 U | 2.6 U | 13 U | 2.6 U | 13 U |
| Carbazole | 86-74-8 | ug/kg | 6.5 U | 6.5 U | 8.8 J | 1.3 U | 1.3 U | 1.3 U | 2.6 U | 1.3 U | 1.7 J | 2.6 U | 80 | 6.5 U | 1.3 U | 6.5 U |
| Dibenzofuran | 132-64-9 | ug/kg | 38 | 8.1 | 4.8 | 0.59 U | 0.59 U | 0.59 U | 3.9 | 1.1 U | 2.6 | 10 | 100 | 16 | 0.59 U | 6 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.37 J | 0.068 U | 0.17 J | 0.068 U | 0.068 U | 0.068 U | 2.4 U | 0.068 U | 0.12 U | 0.46 U | 1.2 U | 0.29 U | 0.068 U | 0.64 |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C721-D | LW3-C721-E | LW3-C724-B | LW3-C724-C | LW3-C724-E | LW3-C724-G | LW3-C727-B | LW3-C733-B | LW3-C735-B | LW3-C735-C | LW3-C738-B | LW3-C738-C | LW3-C738-D | LW3-C738-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 271 - 362 | 362 - 464 | 30 - 110 | 110 - 190 | 294 - 413 | 476 - 538 | 30 - 129 | 30 - 116 | 30 - 85 | 85 - 166 | 30 - 115 | 115 - 223 | 223 - 343 | 430 - 507 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.7 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.51 U | 0.14 U | 0.22 U | 0.14 U | 0.4 J | 0.14 U | 13 U | 0.14 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 150 U | 150 U | 29 U | 29 U | 29 U | 29 U | 58 U | 29 U | 29 U | 58 U | 29 U | 150 U | 29 U | 150 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.8 U | 0.16 U | 0.16 U | 0.86 J | 0.24 J | 0.46 | 0.16 U | 0.16 U | 0.63 U | 0.16 U | 0.16 U | 0.2 U | 0.21 U | 0.18 U |
| Isophorone | 78-59-1 | ug/kg | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U | 2 U | 1 U | 5 U | 1 U | 5 U |
| Nitrobenzene | 98-95-3 | ug/kg | 11 U | 11 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 4.4 U | 2.2 U | 2.2 U | 4.4 U | 2.2 U | 11 U | 2.2 U | 11 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 31 U | 31 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 13 U | 6.1 U | 6.1 U | 13 U | 6.1 U | 31 U | 6.1 U | 31 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 8 U | 8 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 8 U | 1.6 U | 8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 12 U | 12 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 4.8 U | 2.4 U | 2.4 U | 4.8 U | 2.4 U | 12 U | 2.4 U | 12 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C739-B | LW3-C739-C | LW3-C739-D | LW3-C739-E | LW3-C742-B | LW3-C742-C | LW3-C743-B | LW3-C743-D | LW3-C746-B | LW3-C746-D | LW3-C747-B | LW3-C747-C | LW3-C747-E | LW3-C748-B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 152 - 274 | 274 - 400 | 400 - 515 | 30 - 156 | 156 - 277 | 30 - 129 | 175 - 269 | 30 - 151 | 240 - 303 | 30 - 110 | 110 - 158 | 227 - 251 | 30 - 78 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 1.9 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 5.7 U | 13 J | 1.3 U | 1.3 U | 3.4 U | 1.3 U | 8.1 J | 90 J | 86 | 1.3 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 7.6 U | 9.3 U | 12 U | 3.7 U | 26 J | 44 J | 1.3 U | 31 J | 9 | 2.3 | 26 | 72 J | 10 | 9.8 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 19 | 20 | 18 | 100 | 30 | 37 | 1.4 U | 39 J | 8.9 | 1.7 J | 36 J | 68 | 9.9 J | 11 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 19 T | 20 T | 18 T | 100 T | 56 JT | 94 JT | 1.9 UT | 70 JT | 17.9 T | 4 JT | 70.1 JT | 230 JT | 106 JT | 20.8 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.44 | 1.63 | 1.67 | 1.66 | 1.62 | 1.57 | 2.38 T | 1.9 | 1.72 | 2.28 | 1.76 | 1.76 | 1.67 | 1.27 |
| Total organic carbon | TOC | percent | 1.87 | 1.92 | 2 | 2.11 | 1.51 | 1.49 | 0.77 T | 0.67 | 2.04 | 0.7 | 1.34 | 1.5 | 0.15 | 1.79 |
| Total solids | TSO | percent | 55.7 | 58 | 57.8 | 60.5 | 60 | 63.4 | 66.1 | 68.4 | 55.1 | 68.5 | 65.7 | 64.3 | 69.9 | 50.7 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 0.486 J | 0.692 | 0.988 | 3.6 | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 1.28 J | 2.25 J | 1.87 J | 8.57 | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 24.7 | 24.6 | 28 | 57.8 | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 265 | 105 | 123 | 350 | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 537 | 493 | 580 | 2390 J | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 2.75 | 3.85 | 5.82 | 18.4 | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 2.24 J | 8.92 | 9.12 | 25.8 | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 14.6 | 17.8 | 16.9 | 50.7 | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 39.3 | 28 | 29.9 | 108 | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 48.3 | 28.4 | 29.2 | 99.3 | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | 936 JT | 713 JT | 825 JT | 3110 JT | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 0.11 U | 0.151 U | 0.177 J | 0.406 J | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 0.262 J | 0.405 J | 0.423 J | 0.832 J | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 0.329 U | 0.437 J | 0.413 J | 1.04 J | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 3.09 | 3.83 | 4.33 | 8.53 | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 1.33 J | 1.55 J | 1.81 J | 3.91 | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 56 | 50.2 | 59.1 | 169 | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 0.39 U | 0.634 | 0.613 | 1.34 | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 0.374 U | 0.234 J | 0.239 J | 0.614 J | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 0.302 J | 0.334 J | 0.333 J | 1.07 J | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 0.955 J | 1.2 J | 0.748 J | 3.46 | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 0.467 J | 0.578 J | 0.609 J | 2.16 J | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 0.0946 U | 0.0647 U | 0.105 U | 0.0639 U | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 0.633 J | 0.807 J | 0.658 J | 2.14 J | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 8.11 | 7.35 | 8.29 | 27 | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 0.643 J | 1.55 J | 0.693 J | 2.67 J | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 1.82 JT | 2.16 JT | 2.49 JT | 6.57 JT | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 2.91 JT | 3.57 JT | 4.74 JT | 12.6 JT | | | | | | | 1.78 JA | 4.88 A | 0.644 JA | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 0.37 | 0 | 6.96 | 0 | 5.18 | 0.26 | 0.21 | 5.35 | 0 | 0.39 | 9.77 | 11.8 | 0.08 |
| Fine gravel | GS_FG | percent | 1.07 | 2.96 | 3.17 | 13.2 | 0.35 | 0.33 | 0.19 | 1.09 | 1 | 0.01 | 3.54 | 3.68 | 4.98 | 0.48 |
| Very coarse sand | GS_VCS | percent | 1 | 2.04 | 4.44 | 6.04 | 0.5 | 0.57 | 0.46 | 0.9 | 0.93 | 0.12 | 4.04 | 2.54 | 3.2 | 0.84 |
| Coarse sand | GS_CS | percent | 1.37 | 1.38 | 1.72 | 2.63 | 1.83 | 2.67 | 0.56 | 2.58 | 0.77 | 0.19 | 7.07 | 3.97 | 1.78 | 1.01 |
| Medium sand | GS_MS | percent | 2.14 | 1.47 | 1.48 | 2.17 | 4.29 | 5.55 | 1.12 | 13.7 | 1.23 | 0.24 | 13.5 | 6.73 | 2.46 | 2.67 |
| Fine sand | GS_FS | percent | 4.75 | 6.03 | 6.57 | 6.59 | 7.96 | 10.2 | 5.97 | 24.7 | 6.51 | 0.74 | 21.5 | 15.9 | 11.2 | 8.67 |
| Very fine sand | GS_VFS | percent | 12.5 | 16.1 | 14.7 | 10.8 | 20.8 | 16.2 | 21.6 | 18.1 | 14.5 | 7.41 | 19 | 23.3 | 24.4 | 11.8 |
| Fines | GS_FINES | percent | 77.7 T | 69.6 T | 70.2 T | 51.6 T | 66.1 T | 60.2 T | 68.9 T | 39.1 T | 66.5 T | 81.8 T | 31.9 T | 36.2 T | 45.8 T | 79.9 T |
| Coarse silt | GS_CSILT | percent | 26 | 28.1 | 25.5 | 13.3 | 24.5 | 19.1 | 18 | 9.74 | 18.7 | 13.7 | 10.4 | 15.8 | 23.5 | 25.7 |
| Medium silt | GS_MSILT | percent | 21.4 | 15.3 | 16 | 12.9 | 14 | 13.5 | 15.7 | 10.9 | 17.9 | 28.2 | 7.09 | 6.91 | 9.67 | 19 |
| Fine silt | GS_FSILT | percent | 12.3 | 9.76 | 11.3 | 8.54 | 9.14 | 9.55 | 11.7 | 7.75 | 10.2 | 19.2 | 4.91 | 4.73 | 5.34 | 13.1 |
| Very fine silt | GS_VFSILT | percent | 7.04 | 7.39 | 7.69 | 7.03 | 5.61 | 6.87 | 7.95 | 4.33 | 8.48 | 7.33 | 3.74 | 3.41 | 2.51 | 7.14 |
| 8-9 Phi clay | GS_CCLAY | percent | 3.33 | 3.84 | 3.9 | 3.79 | 3.8 | 4.78 | 4.32 | 1.85 | 4.03 | 4.04 | 2.62 | 1.98 | 1.45 | 5.73 |
| >9 Phi clay | GS_MFCLAY | percent | 7.64 | 5.17 | 5.83 | 6.08 | 9.02 | 6.43 | 11.2 | 4.48 | 7.15 | 9.36 | 3.11 | 3.33 | 3.33 | 9.19 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 24700 | 31300 | 30200 | 28200 | 22400 | 25500 | 20400 | 15900 | 27400 | 24500 | 21900 | 21400 | 20400 | 27200 |
| Antimony | 7440-36-0 | mg/kg | 0.27 J | 0.18 J | 0.16 J | 0.18 J | 0.25 J | 0.28 J | 0.23 J | 0.26 J | 0.25 J | 0.21 J | 0.36 J | 0.53 J | 0.51 J | 0.35 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C739-B | LW3-C739-C | LW3-C739-D | LW3-C739-E | LW3-C742-B | LW3-C742-C | LW3-C743-B | LW3-C743-D | LW3-C746-B | LW3-C746-D | LW3-C747-B | LW3-C747-C | LW3-C747-E | LW3-C748-B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 152 - 274 | 274 - 400 | 400 - 515 | 30 - 156 | 156 - 277 | 30 - 129 | 175 - 269 | 30 - 151 | 240 - 303 | 30 - 110 | 110 - 158 | 227 - 251 | 30 - 78 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 3.16 | 3.97 | 3.69 | 4.56 | 3.2 | 3 | 1.62 | 1.61 | 2.85 | 1.83 | 3.58 | 2.87 | 8.69 | 3.53 |
| Cadmium | 7440-43-9 | mg/kg | 0.209 | 0.234 | 0.255 | 0.3 | 0.196 | 0.212 | 0.111 | 0.143 | 0.219 | 0.108 | 0.177 | 0.267 | 0.125 | 0.183 |
| Chromium | 7440-47-3 | mg/kg | 20.4 | 25 | 26.3 | 25 | 28.7 | 24.3 | 20 | 18.6 | 30.3 | 24 | 21.4 | 20.1 | 18.4 | 27.4 |
| Copper | 7440-50-8 | mg/kg | 34.3 | 40.6 | 39.6 | 43.1 | 35.4 J | 36.4 J | 26.7 | 23.5 | 38.9 | 30.4 | 30.7 | 31.8 | 28.3 | 42.3 |
| Lead | 7439-92-1 | mg/kg | 17 | 18.6 | 25.9 | 26.6 | 18.8 J | 23.3 J | 6.52 | 16.9 | 24.2 | 5.02 | 24.6 | 66.4 | 14.9 | 13.9 |
| Mercury | 7439-97-6 | mg/kg | 0.054 | 0.066 | 0.07 | 0.143 | 0.064 | 0.07 | 0.036 | 0.114 | 0.079 | 0.03 | 0.046 | 0.091 | 0.027 | 0.071 J |
| Nickel | 7440-02-0 | mg/kg | 19.2 J | 23 J | 23.1 J | 23.6 J | 23.6 J | 22.2 J | 21.8 | 21.2 | 25.1 | 24.2 | 22.5 | 20 | 21.3 | 22.8 |
| Silver | 7440-22-4 | mg/kg | 0.31 | 0.34 | 0.44 | 0.41 | 0.21 | 0.25 | 0.09 | 0.14 | 0.26 | 0.09 | 0.313 | 0.541 | 0.333 | 0.467 |
| Zinc | 7440-66-6 | mg/kg | 132 | 138 | 145 | 207 | 86.6 J | 126 J | 72.4 | 76.2 | 101 | 66.6 | 116 | 223 | 98.3 | 101 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 4.8 | 2.7 | 2.5 | 5.8 | 2.6 | 2.6 | 0.51 J | 33 | 4.5 | 0.31 U | 3.8 | 4.6 | 0.31 U | 1.5 J |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 7.6 | 4.2 | 4.1 | 8.8 | 4.1 | 4.8 | 0.63 J | 50 | 7.1 | 0.4 J | 6 | 7.7 | 0.49 J | 2.1 J |
| Acenaphthene | 83-32-9 | ug/kg | 14 | 6.1 | 2.9 | 5.8 | 11 | 4 | 0.57 J | 70 | 43 | 0.24 J | 8.6 | 12 | 0.57 J | 2.9 |
| Acenaphthylene | 208-96-8 | ug/kg | 8.9 | 2.2 | 3.2 | 3.9 | 2 J | 2.7 | 0.26 J | 28 | 3.8 | 0.24 U | 1.5 J | 3 | 0.36 J | 1.8 J |
| Anthracene | 120-12-7 | ug/kg | 33 | 9.4 | 2.8 | 5.8 | 7.7 | 4.2 | 0.47 U | 69 | 45 | 0.47 U | 4.8 | 10 | 0.75 J | 3.9 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 370 | 34 | 13 | 20 | 59 | 26 | 1.1 J | 150 | 250 | 0.66 J | 11 | 31 | 3 | 12 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 330 | 30 | 14 | 23 | 66 | 25 | 0.6 J | 200 | 330 | 0.49 J | 10 | 32 | 3 | 15 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 630 | 44 | 18 | 31 | 96 | 34 | 0.91 J | 190 | 430 | 0.84 J | 14 | 40 | 4 | 21 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 330 | 26 | 14 | 20 | 52 | 19 | | | 230 | 0.53 J | | | | 13 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 250 | 21 | 12 | 17 | 50 | 19 | 0.64 U | 150 | 230 | 0.64 U | 9.1 | 23 | 2.6 | 13 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 200 | 15 | 5 | 9.8 | 32 | 11 | 0.47 J | 57 | 140 | 0.27 J | 5.1 | 12 | 1.2 J | 6.2 |
| Chrysene | 218-01-9 | ug/kg | 600 | 46 | 17 | 26 | 70 | 28 | 1 J | 160 | 280 | 0.71 J | 16 | 35 | 3.6 | 17 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 69 | 3.7 U | 2.1 U | 3 U | 11 | 3.4 | 0.28 U | 18 | 52 | 0.28 U | 1.6 J | 4.4 | 0.46 J | 2 J |
| Dibenzothiophene | 132-65-0 | ug/kg | 23 | 3.3 | 2.1 J | 4.9 | 3.3 | 2.7 | 0.21 U | 32 | 11 | 0.21 U | 1.9 | 4.2 | 0.22 J | 0.98 J |
| Fluoranthene | 206-44-0 | ug/kg | 1100 | 89 | 31 | 52 | 110 | 54 | 2.2 | 400 | 400 | 1.2 J | 39 | 70 | 5.8 | 32 |
| Fluorene | 86-73-7 | ug/kg | 19 | 7.2 | 3.4 | 7.1 | 8.2 | 5 | 0.5 U | 42 | 26 | 0.5 U | 7.7 | 13 | 0.5 U | 3.7 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 310 | 24 | 12 | 18 | 58 | 20 | 0.67 U | 160 | 290 | 0.47 U | 9.6 | 22 | 2.7 | 13 |
| Naphthalene | 91-20-3 | ug/kg | 22 | 8.8 | 11 | 12 | 11 | 9 | 1.3 U | 100 | 21 | 0.98 U | 9.5 | 10 | 0.83 U | 6.9 |
| Perylene | 198-55-0 | ug/kg | 120 | 20 | 17 | 20 | 59 | 47 | | | 120 | 75 | | | | 29 |
| Phenanthrene | 85-01-8 | ug/kg | 500 | 49 | 23 | 39 | 57 | 33 | 2.2 | 340 | 210 | 1 J | 39 | 54 | 4.1 | 20 |
| Pyrene | 129-00-0 | ug/kg | 790 | 79 | 36 | 54 | 84 | 51 | 2.2 | 420 | 320 | 1.1 J | 33 | 63 | 5.8 | 30 |
| High Molecular Weight PAH | HPAH | ug/kg | 4600 T | 380 T | 160 T | 250 T | 640 T | 270 T | 8.5 JT | 1900 T | 2700 T | 5.3 JT | 150 JT | 330 T | 32 JT | 160 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 600 T | 87 T | 50 T | 82 T | 100 JT | 63 T | 3.7 JT | 700 T | 360 T | 1.6 JT | 77 JT | 110 T | 6.3 JT | 41 JT |
| Total PAHs | 130498-29-2 | ug/kg | 5300 T | 470 T | 210 T | 330 T | 740 JT | 330 T | 12 JT | 2600 T | 3100 T | 6.9 JT | 230 JT | 440 T | 38 JT | 200 JT |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 18 | 8.3 | 8.8 | 27 | 8.3 | 22 | | | 5.4 | 0.21 U | | | | 2.4 J |
| C1-Chrysene | C1_218-01-9 | ug/kg | 240 | 37 J | 20 J | 28 J | 44 | 27 | | | 140 | 1.1 J | | | | 9 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 12 | 4.9 | 3.7 | 11 | 4.2 | 7.5 | | | 5.9 | 0.5 U | | | | 1.7 J |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 240 | 40 | 20 | 36 | 57 | 31 | | | 170 | 1.1 J | | | | 19 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 190 | 0.75 U | 17 | 49 | 22 | 29 | | | 52 | 1 J | | | | 11 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 33 | 11 | 9.2 | 23 | 9.6 | 17 | | | 14 | 0.21 U | | | | 4.7 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 90 | 19 | 12 | 29 | 25 | 22 | | | 58 | 0.25 U | | | | 13 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 40 | 0.5 U | 9.3 | 29 | 9.9 | 20 | | | 12 | 0.74 J | | | | 4.6 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 21 | 12 | 11 | 42 | 8.8 | 18 | | | 9.3 | 0.93 J | | | | 4.4 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 120 | 31 | 20 | 56 | 24 | 38 | | | 47 | 1.2 J | | | | 11 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 26 | 11 | 9.2 | 18 | 11 | 15 | | | 15 | 0.21 U | | | | 5.7 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 77 | 16 | 11 | 27 | 20 | 20 | | | 34 | 0.25 U | | | | 13 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 44 | 13 | 12 | 40 | 17 | 25 | | | 24 | 0.5 U | | | | 9.2 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 28 | 13 | 14 | 79 | 11 | 32 | | | 9.8 | 1.3 J | | | | 4.6 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 74 | 31 | 19 | 51 | 33 | 47 | | | 35 | 1.6 J | | | | 16 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 32 | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 12 | | | 23 | 0.25 U | | | | 0.25 U |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 39 | 20 | 25 | 83 | 15 | 50 | | | 14 | 1.1 J | | | | 5.6 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 31 | 24 | 9.4 | 22 | 16 | 20 | | | 21 | 0.75 U | | | | 9.1 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 37 | 25 | 15 | 29 | 34 | 25 | | | 86 | 0.88 J | | | | 13 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 83 | 14 | 9.7 | 21 | 24 | 19 | | | 50 | 0.61 U | | | | 10 |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | 30.4 | 138 JT | 56.2 | 328 | | | | | | | 68.4 | 190 | 76.5 | |
| PCB002 | 2051-61-8 | pg/g | 28.5 | 35.9 JT | 16.5 | 59.3 | | | | | | | 17.3 | 35.1 | 14.4 | |
| PCB003 | 2051-62-9 | pg/g | 26.5 | 74.9 JT | 39.3 | 237 | | | | | | | 68.1 | 132 | 50.6 | |
| PCB004 & 010 | PCB004_010 | pg/g | 131 | 310 JT | 97.7 | 662 | | | | | | | 83 | 353 | 2630 | |
| PCB005 & 008 | PCB005_008 | pg/g | 372 | 1770 JT | 324 | 2260 | | | | | | | 296 | 1680 | 9270 | |
| PCB006 | 25569-80-6 | pg/g | 116 | 418 JT | 87.7 | 499 | | | | | | | 90 | 409 | 2200 | |
| PCB007 & 009 | PCB007_009 | pg/g | 33.7 | 175 JT | 33.9 | 259 | | | | | | | 32.2 | 139 | 229 | |
| PCB011 | 2050-67-1 | pg/g | 297 | 190 T | 83.1 | 47.9 | | | | | | | 39.8 | 48.5 | 42.9 | |
| PCB012 & 013 | PCB012_013 | pg/g | 31.4 | 138 JT | 31 | 155 | | | | | | | 34.7 | 152 | 171 | |
| PCB014 | 34883-41-5 | pg/g | 9.9 U | 9.99 UT | 9.92 U | 9.71 U | | | | | | | 9.81 U | 9.89 U | 10 U | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C739-B | LW3-C739-C | LW3-C739-D | LW3-C739-E | LW3-C742-B | LW3-C742-C | LW3-C743-B | LW3-C743-D | LW3-C746-B | LW3-C746-D | LW3-C747-B | LW3-C747-C | LW3-C747-E | LW3-C748-B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 152 - 274 | 274 - 400 | 400 - 515 | 30 - 156 | 156 - 277 | 30 - 129 | 175 - 269 | 30 - 151 | 240 - 303 | 30 - 110 | 110 - 158 | 227 - 251 | 30 - 78 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | 205 | 825 JT | 231 | 937 | | | | | | | 218 | 686 | 1800 | |
| PCB016 & 032 | PCB016_032 | pg/g | 344 | 852 JT | 406 | 1990 | | | | | | | 393 | 3590 | 6500 | |
| PCB017 | 37680-66-3 | pg/g | 245 | 637 JT | 303 | 1480 | | | | | | | 280 | 2870 | 6400 | |
| PCB018 | 37680-65-2 | pg/g | 531 | 1410 JT | 659 | 3160 | | | | | | | 628 | 6800 | 12000 | |
| PCB019 | 38444-73-4 | pg/g | 64.8 | 78.2 JT | 50.8 | 281 | | | | | | | 45.1 | 384 | 1080 | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 415 | 1750 JT | 449 | 2350 | | | | | | | 487 | 5190 | 1230 | |
| PCB022 | 38444-85-8 | pg/g | 239 | 945 JT | 282 | 1130 | | | | | | | 294 | 2870 | 615 | |
| PCB023 | 55720-44-0 | pg/g | 4.95 U | 5 UT | 4.96 U | 5.64 | | | | | | | 4.91 U | 8.02 | 5.42 | |
| PCB024 & 027 | PCB024_027 | pg/g | 40.8 | 96.7 JT | 45.6 | 233 | | | | | | | 42.2 | 290 | 724 | |
| PCB025 | 55712-37-3 | pg/g | 91.6 | 333 JT | 105 | 451 | | | | | | | 147 | 785 | 2090 | |
| PCB026 | 38444-81-4 | pg/g | 139 | 494 JT | 180 | 749 | | | | | | | 204 | 1290 | 3170 | |
| PCB028 | 7012-37-5 | pg/g | 774 | 2710 JT | 1120 | 3880 | | | | | | | 1080 | 10700 | 16500 | |
| PCB029 | 15862-07-4 | pg/g | 4.95 U | 17.5 JT | 4.96 U | 21.7 | | | | | | | 4.91 U | 17.4 | 6.31 | |
| PCB030 | 35693-92-6 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB031 | 16606-02-3 | pg/g | 600 | 2210 JT | 886 | 3110 | | | | | | | 826 | 9000 | 11500 | |
| PCB034 | 37680-68-5 | pg/g | 8.13 | 17.9 JT | 15.2 | 51.3 | | | | | | | 12.7 | 152 | 156 | |
| PCB035 | 37680-69-6 | pg/g | 12.5 | 48.8 JT | 25.2 | 65.7 | | | | | | | 22 | 76.1 | 52.7 | |
| PCB036 | 38444-87-0 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 5.58 | 9.61 | |
| PCB037 | 38444-90-5 | pg/g | 200 | 1060 JT | 367 | 1180 | | | | | | | 306 | 1910 | 759 | |
| PCB038 | 53555-66-1 | pg/g | 18.9 | 19.5 T | 21.7 | 85.2 | | | | | | | 20.1 | 108 | 99.4 | |
| PCB039 | 38444-88-1 | pg/g | 4.95 U | 8.71 T | 8.73 | 17.9 | | | | | | | 11.2 | 66.8 | 78.6 | |
| PCB040 | 38444-93-8 | pg/g | 96.7 | 250 JT | 218 | 477 | | | | | | | 193 | 2250 | 447 | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 571 | 1250 JT | 1110 | 3330 | | | | | | | 1170 | 11900 | 4950 | |
| PCB042 & 059 | PCB042_059 | pg/g | 195 | 487 JT | 422 | 1350 | | | | | | | 404 | 4200 | 626 | |
| PCB043 & 049 | PCB043_049 | pg/g | 934 | 1550 T | 1670 | 7290 | | | | | | | 1600 | 11500 | 8360 | |
| PCB044 | 41464-39-5 | pg/g | 583 | 1540 JT | 1450 | 5190 | | | | | | | 1330 | 14300 | 2440 | |
| PCB045 | 70362-45-7 | pg/g | 80.3 | 198 T | 189 | 629 | | | | | | | 151 | 2220 | 726 | |
| PCB046 | 41464-47-5 | pg/g | 41.1 | 90.7 T | 79.2 | 249 | | | | | | | 80.7 | 991 | 1010 | |
| PCB047 | 2437-79-8 | pg/g | 615 | 630 T | 497 | 1840 | | | | | | | 726 | 3750 | 3570 | |
| PCB048 & 075 | PCB048_075 | pg/g | 124 | 289 T | 308 | 867 | | | | | | | 270 | 3190 | 688 | |
| PCB050 | 62796-65-0 | pg/g | 4.95 U | 5.43 T | 5.48 | 15.5 | | | | | | | 5.36 | 55.1 | 43.5 | |
| PCB051 | 68194-04-7 | pg/g | 165 | 117 T | 67.2 | 189 | | | | | | | 156 | 725 | 886 | |
| PCB052 & 069 | PCB052_069 | pg/g | 952 | 1880 T | 2280 | 10800 | | | | | | | 1910 | 13800 | 7950 | |
| PCB053 | 41464-41-9 | pg/g | 196 | 243 T | 194 | 627 | | | | | | | 330 | 2120 | 1960 | |
| PCB054 | 15968-05-5 | pg/g | 16.2 | 6.99 T | 4.96 U | 8.67 | | | | | | | 17.1 | 32 | 22.7 | |
| PCB055 | 74338-24-2 | pg/g | 15 | 32.5 JT | 26.7 | 122 | | | | | | | 30.8 | 126 | 27.8 | |
| PCB056 & 060 | PCB056_060 | pg/g | 309 | 1030 JT | 919 | 2500 | | | | | | | 875 | 7890 | 968 | |
| PCB057 | 70424-67-8 | pg/g | 8.57 | 17.2 T | 14.9 | 212 | | | | | | | 17.4 | 66.9 | 60.7 | |
| PCB058 | 41464-49-7 | pg/g | 6.25 | 11.6 T | 15.6 | 44.7 | | | | | | | 20.6 | 78.8 | 19.2 | |
| PCB061 & 070 | PCB061_070 | pg/g | 809 | 2080 JT | 2230 | 7040 | | | | | | | 2170 | 16100 | 3530 | |
| PCB062 | 54230-22-7 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB063 | 74472-34-7 | pg/g | 26.7 | 72.2 T | 81.4 | 248 | | | | | | | 79.7 | 570 | 288 | |
| PCB065 | 33284-54-7 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB066 & 076 | PCB066_076 | pg/g | 644 | 1720 JT | 1790 | 5110 | | | | | | | 1810 | 12700 | 1790 | |
| PCB067 | 73575-53-8 | pg/g | 23 | 54.3 JT | 49 | 164 | | | | | | | 48.6 | 294 | 65 | |
| PCB068 | 73575-52-7 | pg/g | 19.1 | 25.4 T | 29.1 | 99 | | | | | | | 64.6 | 148 | 112 | |
| PCB073 | 74338-23-1 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB074 | 32690-93-0 | pg/g | 280 | 802 JT | 796 | 2330 | | | | | | | 731 | 6380 | 862 | |
| PCB077 | 32598-13-3 | pg/g | 73.2 | 176 JT | 179 | 412 | | | | | | | 140 | 946 | 257 | |
| PCB078 | 70362-49-1 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB079 | 41464-48-6 | pg/g | 34.2 | 46.5 T | 54.6 | 310 | | | | | | | 73.2 | 169 | 36.2 | |
| PCB080 | 33284-52-5 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB081 | 70362-50-4 | pg/g | 3.61 J | 7.83 T | 10.6 | 24.5 | | | | | | | 2.2 J | 20.4 | 3.97 J | |
| PCB082 | 52663-62-4 | pg/g | 121 | 229 T | 370 | 1150 | | | | | | | 311 | 1620 | 144 | |
| PCB083 | 60145-20-2 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB084 & 092 | PCB084_092 | pg/g | 925 | 1240 T | 1640 | 13500 | | | | | | | 1700 | 5410 | 1380 | |
| PCB085 & 116 | PCB085_116 | pg/g | 195 | 287 T | 447 | 1500 | | | | | | | 434 | 1960 | 211 | |
| PCB086 | 55312-69-1 | pg/g | 4.95 U | 6.97 T | 11.6 | 32.1 | | | | | | | 7.45 | 84.8 | 8.77 | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 415 | 607 T | 920 | 3750 | | | | | | | 857 | 3400 | 371 | |
| PCB088 & 091 | PCB088_091 | pg/g | 381 | 425 T | 486 | 2820 | | | | | | | 665 | 2260 | 613 | |
| PCB089 | 73575-57-2 | pg/g | 11.6 | 28.1 T | 41.7 | 116 | | | | | | | 30.3 | 273 | 25.6 | |
| PCB090 & 101 | PCB090_101 | pg/g | 2540 | 3060 T | 3790 | 28000 | | | | | | | 4150 | 10600 | 1820 | |
| PCB093 | 73575-56-1 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB094 | 73575-55-0 | pg/g | 20.1 | 17.1 T | 15.2 | 49.1 | | | | | | | 46 | 99.7 | 85.8 | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 1880 | 2240 T | 2750 | 17500 | | | | | | | 2840 | 8860 | 2400 | |
| PCB096 | 73575-54-9 | pg/g | 27.8 | 24.8 T | 22.9 | 60 | | | | | | | 38 | 193 | 98.1 | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C739-B | LW3-C739-C | LW3-C739-D | LW3-C739-E | LW3-C742-B | LW3-C742-C | LW3-C743-B | LW3-C743-D | LW3-C746-B | LW3-C746-D | LW3-C747-B | LW3-C747-C | LW3-C747-E | LW3-C748-B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 152 - 274 | 274 - 400 | 400 - 515 | 30 - 156 | 156 - 277 | 30 - 129 | 175 - 269 | 30 - 151 | 240 - 303 | 30 - 110 | 110 - 158 | 227 - 251 | 30 - 78 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | 350 | 539 T | 833 | 3140 | | | | | | | 846 | 3620 | 398 | |
| PCB099 | 38380-01-7 | pg/g | 1160 | 1520 T | 1760 | 12500 | | | | | | | 2290 | 5930 | 853 | |
| PCB100 | 39485-83-1 | pg/g | 89.1 | 43.4 T | 30.8 | 520 | | | | | | | 94.9 | 111 | 61.1 | |
| PCB103 | 60145-21-3 | pg/g | 140 | 137 T | 108 | 1420 | | | | | | | 182 | 198 | 86 | |
| PCB104 | 56558-16-8 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB105 | 32598-14-4 | pg/g | 309 | 548 T | 758 | 2830 | | | | | | | 775 | 2800 | 320 | |
| PCB106 & 118 | PCB106_118 | pg/g | 1230 | 1740 T | 2490 | 10500 | | | | | | | 2530 | 7890 | 1040 | |
| PCB107 & 109 | PCB107_109 | pg/g | 150 | 193 T | 280 | 1530 | | | | | | | 323 | 820 | 159 | |
| PCB108 & 112 | PCB108_112 | pg/g | 67.5 | 99.1 T | 158 | 690 | | | | | | | 160 | 637 | 171 | |
| PCB110 | 38380-03-9 | pg/g | 1960 | 2480 T | 3480 | 16600 | | | | | | | 3620 | 12000 | 1400 | |
| PCB111 & 115 | PCB111_115 | pg/g | 19.7 | 26.2 T | 34.3 | 214 | | | | | | | 44.2 | 154 | 18.6 | |
| PCB113 | 68194-10-5 | pg/g | 25.7 | 25.1 T | 17.8 | 392 | | | | | | | 30.9 | 41.5 | 11.4 | |
| PCB114 | 74472-37-0 | pg/g | 19.3 | 28.1 T | 43.7 | 143 | | | | | | | 44.3 | 192 | 25.6 | |
| PCB119 | 56558-17-9 | pg/g | 158 | 151 T | 153 | 1620 | | | | | | | 244 | 385 | 112 | |
| PCB120 | 68194-12-7 | pg/g | 20.3 | 19.5 T | 18.3 | 150 | | | | | | | 57.3 | 56.2 | 13.2 | |
| PCB121 | 56558-18-0 | pg/g | 4.95 U | 5 UT | 4.96 U | 106 | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB122 | 76842-07-4 | pg/g | 11.5 | 18 T | 28.2 | 77.6 | | | | | | | 29.3 | 129 | 15.1 | |
| PCB123 | 65510-44-3 | pg/g | 16 | 21.7 JT | 33 | 115 | | | | | | | 32.2 | 138 | 19.1 | |
| PCB124 | 70424-70-3 | pg/g | 34.8 | 54.1 T | 83.6 | 272 | | | | | | | 90.7 | 280 | 30.6 | |
| PCB126 | 57465-28-8 | pg/g | 10.2 | 13 T | 21.2 | 55.4 | | | | | | | 16.3 | 44.2 | 5.72 | |
| PCB127 | 39635-33-1 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB128 & 162 | PCB128_162 | pg/g | 259 | 328 T | 478 | 2220 | | | | | | | 390 | 916 | 95.4 | |
| PCB129 | 55215-18-4 | pg/g | 65.6 | 83.5 T | 124 | 565 | | | | | | | 102 | 260 | 28.4 | |
| PCB130 | 52663-66-8 | pg/g | 213 | 219 T | 310 | 2000 | | | | | | | 295 | 518 | 63.4 | |
| PCB131 | 61798-70-7 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB132 & 161 | PCB132_161 | pg/g | 918 | 1020 T | 1260 | 10300 | | | | | | | 1180 | 2130 | 246 | |
| PCB133 & 142 | PCB133_142 | pg/g | 195 | 209 T | 232 | 3640 | | | | | | | 323 | 366 | 79.9 | |
| PCB134 & 143 | PCB134_143 | pg/g | 154 | 178 T | 228 | 1810 | | | | | | | 226 | 402 | 68.4 | |
| PCB135 | 52744-13-5 | pg/g | 868 | 828 T | 839 | 11900 | | | | | | | 1170 | 1330 | 291 | |
| PCB136 | 38411-22-2 | pg/g | 676 | 672 T | 673 | 6770 | | | | | | | 880 | 1140 | 243 | |
| PCB137 | 35694-06-5 | pg/g | 58.1 | 71.7 T | 118 | 437 | | | | | | | 104 | 237 | 36.1 | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 3240 | 3450 T | 4370 | 31400 | | | | | | | 3860 | 6620 | 859 | |
| PCB139 & 149 | PCB139_149 | pg/g | 4190 | 3750 T | 3990 | 38500 | | | | | | | 4940 | 6570 | 1120 | |
| PCB140 | 59291-64-4 | pg/g | 96.1 | 98.2 T | 84.2 | 1680 | | | | | | | 146 | 121 | 24.5 | |
| PCB141 | 52712-04-6 | pg/g | 657 | 647 T | 795 | 5680 | | | | | | | 679 | 1220 | 129 | |
| PCB144 | 68194-14-9 | pg/g | 166 | 149 T | 182 | 1440 | | | | | | | 192 | 335 | 32.9 | |
| PCB145 | 74472-40-5 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB146 & 165 | PCB146_165 | pg/g | 1140 | 1300 T | 1300 | 19500 | | | | | | | 1740 | 1830 | 337 | |
| PCB147 | 68194-13-8 | pg/g | 125 | 81 T | 80 | 768 | | | | | | | 172 | 211 | 87.4 | |
| PCB148 | 74472-41-6 | pg/g | 51.3 | 57 T | 56 | 1070 | | | | | | | 101 | 78.5 | 29.5 | |
| PCB150 | 68194-08-1 | pg/g | 41.9 | 36 T | 20.7 | 548 | | | | | | | 56.3 | 42.2 | 22.7 | |
| PCB151 | 52663-63-5 | pg/g | 1450 | 1290 T | 1350 | 14800 | | | | | | | 1580 | 1890 | 369 | |
| PCB152 | 68194-09-2 | pg/g | 4.95 U | 5 UT | 4.96 U | 9.02 | | | | | | | 4.91 U | 8.18 | 5.02 U | |
| PCB153 | 35065-27-1 | pg/g | 4220 | 4530 T | 5070 | 46000 | | | | | | | 5050 | 7130 | 963 | |
| PCB154 | 60145-22-4 | pg/g | 317 | 309 T | 235 | 5310 | | | | | | | 446 | 363 | 128 | |
| PCB155 | 33979-03-2 | pg/g | 4.95 U | 5 UT | 4.96 U | 13.5 | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB156 | 38380-08-4 | pg/g | 190 | 225 T | 288 | 1600 | | | | | | | 247 | 541 | 68.2 | |
| PCB157 | 69782-90-7 | pg/g | 29.5 | 37.7 T | 50.7 | 219 | | | | | | | 45.2 | 104 | 12.3 | |
| PCB158 & 160 | PCB158_160 | pg/g | 257 | 277 T | 363 | 2100 | | | | | | | 308 | 604 | 66.3 | |
| PCB159 | 39635-35-3 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB166 | 41411-63-6 | pg/g | 4.95 U | 5.88 T | 7.45 | 34.1 | | | | | | | 6.66 | 19.8 | 5.02 U | |
| PCB167 | 52663-72-6 | pg/g | 87.6 | 92.3 T | 126 | 633 | | | | | | | 102 | 213 | 25.8 | |
| PCB168 | 59291-65-5 | pg/g | 11.5 | 16.3 T | 13.9 | 221 | | | | | | | 23.2 | 22.6 | 5.02 U | |
| PCB169 | 32774-16-6 | pg/g | 1.48 U | 2.17 UT | 2.92 U | 3.63 U | | | | | | | 0.796 J | 2.26 U | 0.712 U | |
| PCB170 | 35065-30-6 | pg/g | 1220 | 1150 T | 1340 | 9880 | | | | | | | 1050 | 1620 | 234 | |
| PCB171 | 52663-71-5 | pg/g | 338 | 328 T | 403 | 2910 | | | | | | | 343 | 498 | 64.4 | |
| PCB172 | 52663-74-8 | pg/g | 226 | 218 T | 255 | 2010 | | | | | | | 211 | 305 | 46 | |
| PCB173 | 68194-16-1 | pg/g | 29.3 | 28.1 T | 33.6 | 235 | | | | | | | 29.5 | 44.8 | 6.15 | |
| PCB174 | 38411-25-5 | pg/g | 1660 | 1580 T | 1940 | 15100 | | | | | | | 1670 | 2250 | 296 | |
| PCB175 | 40186-70-7 | pg/g | 72 | 60.8 T | 83 | 654 | | | | | | | 66.4 | 89.7 | 14.8 | |
| PCB176 | 52663-65-7 | pg/g | 242 | 220 T | 256 | 2430 | | | | | | | 245 | 300 | 46.1 | |
| PCB177 | 52663-70-4 | pg/g | 1060 | 1070 T | 1160 | 12100 | | | | | | | 1180 | 1380 | 195 | |
| PCB178 | 52663-67-9 | pg/g | 454 | 436 T | 462 | 5610 | | | | | | | 509 | 559 | 124 | |
| PCB179 | 52663-64-6 | pg/g | 938 | 872 T | 952 | 10800 | | | | | | | 1010 | 1130 | 211 | |
| PCB180 | 35065-29-3 | pg/g | 3310 | 3140 T | 3620 | 28400 | | | | | | | 2850 | 4310 | 629 | |
| PCB181 | 74472-47-2 | pg/g | 8.06 | 10.3 T | 15.5 | 98.4 | | | | | | | 6.94 | 9.46 | 5.02 U | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C739-B | LW3-C739-C | LW3-C739-D | LW3-C739-E | LW3-C742-B | LW3-C742-C | LW3-C743-B | LW3-C743-D | LW3-C746-B | LW3-C746-D | LW3-C747-B | LW3-C747-C | LW3-C747-E | LW3-C748-B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 152 - 274 | 274 - 400 | 400 - 515 | 30 - 156 | 156 - 277 | 30 - 129 | 175 - 269 | 30 - 151 | 240 - 303 | 30 - 110 | 110 - 158 | 227 - 251 | 30 - 78 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | 2620 | 2430 T | 2550 | 29100 | | | | | | | 2540 | 2950 | 585 | |
| PCB183 | 52663-69-1 | pg/g | 874 | 778 T | 929 | 7440 | | | | | | | 762 | 1090 | 164 | |
| PCB184 | 74472-48-3 | pg/g | 4.95 U | 5 UT | 4.96 U | 26.8 | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB185 | 52712-05-7 | pg/g | 168 | 163 T | 196 | 1460 | | | | | | | 162 | 232 | 29 | |
| PCB186 | 74472-49-4 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB188 | 74487-85-7 | pg/g | 7.75 | 7.81 T | 5.42 | 100 | | | | | | | 13.5 | 9.46 | 5.02 U | |
| PCB189 | 39635-31-9 | pg/g | 42.4 | 40.7 T | 46.8 | 338 | | | | | | | 35.7 | 58.8 | 9.2 | |
| PCB190 | 41411-64-7 | pg/g | 257 | 241 T | 282 | 2140 | | | | | | | 220 | 346 | 53 | |
| PCB191 | 74472-50-7 | pg/g | 50.1 | 47.9 T | 58.3 | 425 | | | | | | | 46.9 | 71.2 | 9.9 | |
| PCB192 | 74472-51-8 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB193 | 69782-91-8 | pg/g | 188 | 193 T | 193 | 1980 | | | | | | | 194 | 243 | 37.5 | |
| PCB194 | 35694-08-7 | pg/g | 755 | 763 T | 840 | 7070 | | | | | | | 618 | 1000 | 167 | |
| PCB195 | 52663-78-2 | pg/g | 323 | 324 T | 363 | 3150 | | | | | | | 277 | 422 | 68.8 | |
| PCB196 & 203 | PCB196_203 | pg/g | 989 | 910 T | 1070 | 9350 | | | | | | | 716 | 1230 | 202 | |
| PCB197 | 33091-17-7 | pg/g | 31.7 | 32.8 T | 34.9 | 343 | | | | | | | 27.4 | 40.9 | 7.66 | |
| PCB198 | 68194-17-2 | pg/g | 51.3 | 50.3 T | 54.8 | 602 | | | | | | | 37.2 | 54.2 | 11.4 | |
| PCB199 | 52663-75-9 | pg/g | 969 | 911 T | 1030 | 9600 | | | | | | | 710 | 1210 | 201 | |
| PCB200 | 52663-73-7 | pg/g | 125 | 112 T | 135 | 1150 | | | | | | | 98.7 | 157 | 27.2 | |
| PCB201 | 40186-71-8 | pg/g | 120 | 118 T | 128 | 1230 | | | | | | | 105 | 151 | 25.4 | |
| PCB202 | 2136-99-4 | pg/g | 168 | 172 T | 189 | 1740 | | | | | | | 151 | 220 | 40.5 | |
| PCB204 | 74472-52-9 | pg/g | 4.95 U | 5 UT | 4.96 U | 4.85 U | | | | | | | 4.91 U | 4.94 U | 5.02 U | |
| PCB205 | 74472-53-0 | pg/g | 34.1 | 34.4 T | 38.1 | 310 | | | | | | | 27 | 46 | 7.59 | |
| PCB206 | 40186-72-9 | pg/g | 236 | 243 T | 286 | 1650 | | | | | | | 177 | 351 | 61.7 | |
| PCB207 | 52663-79-3 | pg/g | 31.1 | 30 T | 39.6 | 236 | | | | | | | 26.4 | 45.9 | 7.57 | |
| PCB208 | 52663-77-1 | pg/g | 57.6 | 59.5 T | 75 | 314 | | | | | | | 44.1 | 83.2 | 14.1 | |
| PCB209 | 2051-24-3 | pg/g | 132 | 138 T | 264 | 266 | | | | | | | 142 | 166 | 23.3 | |
| Total PCB Congeners | 1336-36-3 | pg/g | 61600 JT | 84100 JT | 83400 T | 580000 T | | | | | | | 83300 JT | 295000 T | 142000 JT | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | 1.09 JT | 1.4 JT | 2.26 T | 6.08 T | | | | | | | 1.78 JT | 4.88 T | 0.644 JT | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 85.4 T | 249 JT | 112 T | 624 T | | | | | | | 154 T | 357 T | 142 T | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 1190 T | 3830 JT | 888 T | 4820 T | | | | | | | 794 T | 3470 T | 16300 T | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 3720 T | 12700 JT | 4920 T | 20200 T | | | | | | | 4800 T | 46100 T | 63000 T | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 6820 JT | 14600 JT | 14700 T | 51500 T | | | | | | | 14400 JT | 117000 T | 41700 JT | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 12300 T | 15800 JT | 20800 T | 121000 T | | | | | | | 22500 T | 70200 T | 11900 T | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 19700 T | 20000 T | 22600 T | 211000 T | | | | | | | 24400 JT | 35200 T | 5430 T | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 13800 T | 13000 T | 14800 T | 133000 T | | | | | | | 13100 T | 17500 T | 2750 T | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 3570 T | 3430 T | 3880 T | 34500 T | | | | | | | 2770 T | 4530 T | 759 T | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 325 T | 333 T | 401 T | 2200 T | | | | | | | 248 T | 480 T | 83.4 T | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 1.3 J | 3 | 1.5 NJ | 15 NJ | 1.6 NJ | 1.2 U | 0.16 U | 2.4 | 0.93 NJ | 0.16 U | 2.9 J | 2.6 U | 1.6 U | 0.2 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.76 U | 2 U | 1.2 U | 0.56 U | 0.43 U | 0.74 U | 0.046 U | 1.2 U | 0.19 U | 0.15 U | 1.2 U | 3.2 U | 0.46 U | 0.31 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 3.8 NJ | 3.7 U | 4.3 J | 35 NJ | 1.5 | 2.5 | 0.061 U | 2.7 NJ | 0.82 | 0.26 J | 2.2 NJ | 5.8 | 1.2 J | 0.67 |
| 4,4'-DDD | 72-54-8 | ug/kg | 1.9 | 2.2 | 2.4 | 4.9 J | 0.95 | 1.8 | 0.18 | 4.3 | 1.5 | 0.11 J | 1.4 | 4.4 J | 0.85 U | 0.73 |
| 4,4'-DDE | 72-55-9 | ug/kg | 4.4 | 6.2 J | 6.8 J | 12 NJ | 2.6 J | 4.6 J | 0.16 U | 1.6 NJ | 2.6 J | 0.21 NJ | 2.2 J | 2.7 NJ | 1.5 U | 1.7 |
| 4,4'-DDT | 50-29-3 | ug/kg | 4.4 U | 9.1 U | 4.6 U | 39 J | 2.4 | 4 | 0.18 U | 1.6 NJ | 1.2 J | 0.39 J | 3.4 U | 6 U | 1.8 U | 1.5 NJ |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.21 U | 0.12 U | 0.12 U | 0.23 NJ | 0.12 U | 0.8 | 0.12 U | 1.2 U | 0.37 J |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.35 | 0.037 U | 0.32 | 0.17 U | 0.23 J | 0.16 U | 0.037 U | 0.085 U | 0.23 | 0.037 U | 0.16 U | 1.1 U | 0.56 J | 0.23 |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.18 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.97 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.47 U | 0.74 U | 0.69 J | 3.2 | 0.25 J | 0.64 | 0.066 U | 0.55 J | 0.22 U | 0.031 U | 0.79 | 0.3 U | 0.31 U | 0.096 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.45 NJ | 0.27 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.29 U | 0.14 U | 0.14 U | 1.1 NJ | 1.4 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.15 U | 0.22 U | 0.12 U | 0.63 J | 0.13 J | 0.14 J | 0.031 U | 0.22 U | 0.031 U | 0.031 U | 0.77 | 6.5 | 0.71 J | 0.16 J |
| cis-Nonachlor | 5103-73-1 | ug/kg | 1.5 U | 1.6 U | 1.9 U | 2.5 U | 1.2 U | 2.2 U | 0.16 U | 2.2 U | 0.66 U | 0.087 U | 2.5 U | 3.3 U | 0.87 U | 0.51 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.12 J | 0.11 U | 0.11 U | 0.48 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.47 U | 1.1 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.18 U | 0.17 U | 0.25 U | 0.23 U | 0.53 NJ | 0.24 U | 0.14 J | 0.77 U | 0.36 U | 0.13 J | 0.16 U | 0.2 U | 0.3 U | 0.2 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.24 U | 0.27 U | 0.23 U | 0.058 U | 0.17 U | 0.058 U | 0.058 U | 0.058 U | 0.26 U | 0.058 U | 0.058 U | 0.16 U | 0.58 U | 0.2 U |
| Endrin | 72-20-8 | ug/kg | 0.21 U | 0.53 U | 0.28 U | 1.2 U | 0.08 U | 0.36 U | 0.071 U | 0.15 U | 0.19 U | 0.071 U | 0.3 U | 0.071 U | 0.71 U | 0.2 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.27 U | 1.1 U | 0.18 U | 1.5 U | 0.27 U | 0.16 U | 0.16 U | 0.5 U | 0.4 NJ | 0.042 U | 0.16 U | 0.26 U | 0.42 U | 0.14 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.82 U | 2.7 U | 0.61 U | 4.6 U | 0.32 U | 0.64 U | 0.034 U | 0.47 U | 0.26 U | 0.057 U | 0.74 U | 0.83 U | 0.29 U | 0.52 J |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.18 U | 0.062 U | 0.062 U | 0.36 NJ | 0.062 U | 0.075 J | 0.21 U | 0.39 | 0.31 NJ | 0.077 U | 0.21 U | 0.26 U | 0.62 U | 0.062 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.076 U | 0.18 U | 0.31 U | 0.28 J | 0.25 NJ | 0.076 U | 0.09 U | 0.19 U | 0.076 U | 0.34 U | 0.16 U | 0.76 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.31 U | 0.45 U | 0.59 NJ | 1.6 U | 0.21 U | 0.6 U | 0.092 J | 0.15 U | 0.19 U | 0.12 J | 0.48 U | 3 NJ | 0.98 U | 0.2 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.63 U | 1.5 U | 1.1 U | 2.4 U | 0.38 U | 0.44 U | 0.075 U | 0.15 U | 0.49 U | 0.075 U | 0.53 U | 0.53 U | 0.75 U | 0.74 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 1.2 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.15 U | 0.28 U | 0.28 U | 0.47 U | 0.2 J | 0.21 U | 0.061 U | 0.061 U | 0.15 U | 0.061 U | 0.061 U | 0.16 U | 0.61 U | 0.2 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 1.5 UT | 2.8 T | 2 UT | 5.6 JT | 0.48 JT | 0.3 JT | 0.16 UT | 2.2 UT | 0.82 JT | 0.2 JT | 4.2 JT | 28 T | 0.71 JT | 0.82 JT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C739-B | LW3-C739-C | LW3-C739-D | LW3-C739-E | LW3-C742-B | LW3-C742-C | LW3-C743-B | LW3-C743-D | LW3-C746-B | LW3-C746-D | LW3-C747-B | LW3-C747-C | LW3-C747-E | LW3-C748-B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 152 - 274 | 274 - 400 | 400 - 515 | 30 - 156 | 156 - 277 | 30 - 129 | 175 - 269 | 30 - 151 | 240 - 303 | 30 - 110 | 110 - 158 | 227 - 251 | 30 - 78 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.35 T | 0.74 UT | 1 JT | 3.2 T | 0.48 JT | 0.64 T | 0.066 UT | 0.55 JT | 0.23 T | 0.058 UT | 0.79 T | 1.1 UT | 0.56 JT | 0.23 T |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 3.2 JT | 5.2 T | 3.9 JT | 20 JT | 2.6 JT | 1.8 T | 0.18 T | 6.7 T | 2.4 JT | 0.11 JT | 4.3 JT | 4.4 JT | 1.6 UT | 0.73 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 11 JT | 11 JT | 15 JT | 110 JT | 9.1 JT | 13 JT | 0.18 T | 13 JT | 7.1 JT | 0.97 JT | 8.7 JT | 13 JT | 1.2 JT | 4.6 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 4.4 T | 6.2 JT | 6.8 JT | 12 JT | 2.6 JT | 4.6 JT | 0.16 UT | 1.6 JT | 2.6 JT | 0.21 JT | 2.2 JT | 2.7 JT | 1.5 UT | 1.7 T |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 3.8 JT | 9.1 UT | 4.3 JT | 74 JT | 3.9 T | 6.5 T | 0.18 UT | 4.3 JT | 2 JT | 0.65 JT | 2.2 JT | 5.8 T | 1.2 JT | 2.2 JT |
| Toxaphene | 8001-35-2 | ug/kg | 62 U | 100 U | 76 U | 140 U | 28 U | 57 U | 3.4 U | 45 U | 26 U | 4 U | 54 U | 69 U | 48 U | 22 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 1.5 U | 2.8 | 2 U | 5 NJ | 0.54 U | 0.25 U | 0.15 U | 0.35 U | 0.63 J | 0.2 J | 2.8 | 15 | 1.8 U | 0.5 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.3 U | 0.34 U | 0.26 U | 0.17 U | 0.15 J | 0.16 J | 0.034 U | 0.11 U | 0.19 J | 0.15 U | 0.63 J | 6.3 | 0.85 U | 0.16 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 150 J | 160 J | 140 J | 210 J | 81 J | 87 J | 7.4 J | 86 J | 160 JT | 7.3 J | 82 J | 180 J | 17 J | 84 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 120 J | 130 J | 130 J | 190 J | 82 J | 93 J | 2.8 J | 60 J | 130 JT | 3.3 J | 67 J | 160 J | 15 J | 68 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 470 J | 510 J | 480 J | 650 J | 280 J | 260 J | 43 J | 210 J | 590 JT | 53 J | 310 J | 570 J | 54 J | 460 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 270 J | 310 J | 330 J | 460 J | 210 J | 220 J | 17 U | 130 J | 375 JT | 23 U | 200 J | 410 J | 49 U | 260 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 620 JA | 670 JA | 620 JA | 860 JA | 361 JA | 347 JA | 50.4 JA | 296 JA | 750 JA | 60.3 JA | 392 JA | 750 JA | 71 JA | 544 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 390 JA | 440 JA | 460 JA | 650 JA | 292 JA | 313 JA | 2.8 JA | 190 JA | 505 JA | 3.3 JA | 267 JA | 570 JA | 15 JA | 328 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.37 U | 0.35 U | 0.37 U | 0.35 U | 0.35 U | 0.33 U | 0.31 U | 0.31 U | 0.37 U | 0.3 U | 0.31 U | 0.32 U | 0.29 U | 0.42 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.3 U | 0.28 U | 1.6 U | 1.4 U | 0.29 U | 0.26 U | 0.25 U | 0.25 U | 0.3 U | 0.24 U | 0.25 U | 0.26 U | 0.23 U | 0.34 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 2.9 U | 4 U | 4.2 U | 3.5 U | 0.92 U | 0.85 U | 7.2 U | 7.3 U | 8.8 U | 7.1 U | 2.4 U | 3.3 U | 6.8 U | 9.9 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.22 U | 0.18 U | 0.28 U | 0.18 U | 0.19 U | 0.18 U | 0.16 U | 1.2 J | 0.2 U | 0.16 U | 0.2 U | 0.35 U | 0.18 U | 0.22 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 11 U | 5.5 U | 5.5 U | 5.5 U | R | R | 5.5 U | 5.5 U | 5.5 U | 5.5 U | R | R | R | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 34 U | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | 34 U | 17 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 4 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 4 U | 2 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 3 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.8 J | 3 U | 1.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 3 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 2.8 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 2.8 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 38 | 32 | 58 | 31 | 26 | 11 | 1.5 U | 80 | 8.5 J | 1.5 U | 73 | 40 | 1.5 U | 1.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 36 U | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 36 U | 18 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 3.4 U | 3.1 NJ | 3.2 J | 6.2 J | 2.4 NJ | 9 | 0.23 U | 2 J | 1.2 U | 0.23 U | 1.5 NJ | 2.5 J | 2 U | 13 |
| Phenol | 108-95-2 | ug/kg | 4 U | 2 U | 2 U | 2 U | 22 U | 15 U | 9.8 U | 18 U | 20 U | 14 U | 18 U | 15 U | 5.4 U | 2 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 68 U | 34 U | 41 | 60 | 130 | 70 | 7 U | 18 | 130 | 7 U | 60 | 120 | 9.9 J | 100 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 6.4 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 20 | 3.2 U | 3.2 U | 6.4 U | 4.7 J | 3.2 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 19 | 7.9 U | 7.9 U | 7.9 U | 10 | 15 | 7.9 U | 13 | 8.7 J | 7.9 U | 7.9 U | 16 U | 9 | 11 |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.6 U | 4.9 U | 1.3 U | 1.3 U | 1.3 U | 2.5 J | 1.5 J | 1.8 J | 1.3 U | 3.8 J | 2.4 J | 3 J | 1.9 J | 3.8 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 18 |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 3.4 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 3.4 U | 1.7 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 5.2 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 5.2 U | 2.6 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 5.8 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 5.8 U | 2.9 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 6 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 3 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 5.8 U | 2.9 U | 2.9 U | 7.2 U | 3.2 J | 3.5 J | 2.9 U | 7.2 J | 2.9 U | 2.9 U | 7.4 U | 12 U | 2.9 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 3 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 4 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 4 U | 2 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 3.2 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 6.4 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 6.4 U | 3.2 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 7.4 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 7.4 U | 3.7 U | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 3.2 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 3.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 2.5 J | 1.9 U | 1.9 U | 3.8 U | 1.9 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 2.8 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 1.4 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 3.6 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 3.6 U | 1.8 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 3 U | 1.5 U | 1.5 U | 1.5 U | R | R | 1.5 U | 1.5 U | 1.5 U | 1.5 U | R | R | R | R |
| Azobenzene | 103-33-3 | ug/kg | 2.2 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 2.2 U | 1.1 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | R | R | R | R | 100 J | 96 UJ | R | 100 J | R | R | 96 U | 200 U | 96 U | 110 J |
| Benzyl alcohol | 100-51-6 | ug/kg | 4.2 U | 2.1 U | 2.1 U | 2.1 U | 7.5 J | 7.7 J | 3.4 J | 5.4 J | 5.9 J | 4.1 J | 3.6 J | 7 J | 2.5 J | 6.9 J |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 3 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 1.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 3.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 UJ | 1.9 UJ | 1.9 UJ | 1.9 UJ | 1.9 U | 3.8 U | 1.9 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 5.2 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 5.2 U | 2.6 U | 2.6 U |
| Carbazole | 86-74-8 | ug/kg | 140 | 1.3 U | 1.3 U | 1.3 U | 12 | 1.3 U | 1.3 U | 13 | 50 | 1.3 U | 1.3 U | 6.2 J | 1.3 U | 2.8 J |
| Dibenzofuran | 132-64-9 | ug/kg | 11 | 3.3 | 2.6 | 3.8 | 4.3 | 2.5 | 0.59 U | 11 | 13 | 0.59 U | 4.1 | 7.5 | 0.59 U | 2.3 J |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 U | 0.17 U | 0.23 J | 0.17 U | 0.11 U | 0.13 J | 0.068 U | 0.14 J | 0.19 U | 0.068 U | 0.068 U | 0.24 U | 0.68 U | 0.091 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C739-B | LW3-C739-C | LW3-C739-D | LW3-C739-E | LW3-C742-B | LW3-C742-C | LW3-C743-B | LW3-C743-D | LW3-C746-B | LW3-C746-D | LW3-C747-B | LW3-C747-C | LW3-C747-E | LW3-C748-B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 152 - 274 | 274 - 400 | 400 - 515 | 30 - 156 | 156 - 277 | 30 - 129 | 175 - 269 | 30 - 151 | 240 - 303 | 30 - 110 | 110 - 158 | 227 - 251 | 30 - 78 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 0.17 U | 0.6 U | 0.63 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.74 J | 5 U | 1.4 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 58 U | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 58 U | 29 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.3 U | 0.16 U | 0.16 U | 0.28 U | 0.21 U | 0.3 J | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 1.6 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 | 1 U | 1 U | 2 U | 1 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 4.4 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 4.4 U | 2.2 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 13 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 13 U | 6.1 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 3.2 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 1.6 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 4.8 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 4.8 U | 2.4 U | 2.4 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C748-B2 | LW3-C748-C1 | LW3-C748-C2 | LW3-C748-D1 | LW3-C748-D2 | LW3-C749-B | LW3-C749-C | LW3-C752-B | LW3-C752-C | LW3-C752-D | LW3-C753-B | LW3-C753-C | LW3-C757-B | LW3-C757-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 117 | 78 - 109 | 117 - 185 | 109 - 218 | 185 - 281 | 30 - 134 | 134 - 256 | 30 - 129 | 129 - 252 | 252 - 344 | 30 - 61 | 61 - 183 | 30 - 118 | 118 - 214 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 3.7 UT | 1.3 U | 3.7 UT | 1.3 U | 0.73 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 3.7 UT | 1.3 U | 3.7 UT | 1.3 U | 0.73 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 3.7 UT | 1.3 U | 3.7 UT | 1.3 U | 0.73 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 3.7 UT | 1.3 U | 12 JT | 1.3 U | 0.73 UT | 16 J | 1.3 U | 55 | 55 | 1.3 U | 1.4 U | 1.3 U | 12 NJ | 86 |
| Aroclor 1248 | 12672-29-6 | ug/kg | 3.7 UT | 1.3 U | 3.7 UT | 1.3 U | 0.73 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 16 JT | 5.5 | 32 T | 2.7 | 0.73 UT | 34 J | 1.3 U | 240 | 190 | 57 | 10 | 1.3 U | 11 J | 62 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 11 JT | 4.4 J | 26 JT | 4.1 | 0.73 UT | 33 | 1.3 U | 150 J | 150 | 68 J | 18 J | 1.3 U | 19 J | 58 J |
| Aroclor 1262 | 37324-23-5 | ug/kg | 3.7 UT | 1.3 U | 3.7 UT | 1.3 U | 0.73 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 3.7 UT | 1.3 U | 3.7 UT | 1.3 U | 0.73 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U |
| Aroclors | 12767-79-2 | ug/kg | 27 JT | 9.9 JT | 70 JT | 6.8 T | 0.73 UT | 83 JT | 1.3 UT | 445 JT | 395 T | 125 JT | 28 JT | 1.3 UT | 42 JT | 206 JT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.45 T | 1.33 | 1.78 T | 1.69 | 2.3 T | 2.04 | 1.96 | 1.62 T | 1.64 | 1.7 | 1.34 | 1.76 | 1.49 | 1.52 |
| Total organic carbon | TOC | percent | 1.77 T | 0.23 | 1.01 T | 0.08 | 0.59 T | 2.04 | 0.63 | 1.65 | 2.04 | 2.14 | 2.13 | 0.04 J | 1.39 | 1.42 T |
| Total solids | TSO | percent | 51 T | 73.3 | 70.4 T | 75.5 | 86.4 T | 64.5 T | 68.5 | 58.2 | 59.5 | 64.2 | 49.2 | 79.8 | 69.7 | 62.4 T |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | 14.9 A | 11.6 JA | 2.7 A | | | | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.575 T | 0.14 | 0.255 T | 4.91 | 2.82 T | 0.3 | 0 | 0 | 0 | 0.36 | 2.28 | 0 | 3.09 | 1.37 T |
| Fine gravel | GS_FG | percent | 1.64 T | 0.31 | 0.828 T | 2.59 | 0.84 T | 0.8 | 0.56 | 0.74 | 1.88 | 2.69 | 1.39 | 0.03 | 4.48 | 1.47 T |
| Very coarse sand | GS_VCS | percent | 1.49 T | 0.29 | 0.882 T | 1.15 | 0.71 T | 1.08 | 0.46 | 3.27 | 3.11 | 2.1 | 1.21 | 0.25 | 4.21 | 2.09 T |
| Coarse sand | GS_CS | percent | 1.33 T | 1.54 | 10.7 T | 24.2 | 29.2 T | 1.94 | 0.42 | 5.6 | 4.32 | 3.16 | 5.78 | 19.5 | 9.22 | 4.48 T |
| Medium sand | GS_MS | percent | 3.51 T | 34.4 | 36.1 T | 53.8 | 60.3 T | 4.35 | 0.57 | 5.99 | 5.21 | 9.58 | 22.5 | 72.7 | 18 | 11.5 T |
| Fine sand | GS_FS | percent | 13.2 T | 59.1 | 23.4 T | 5.45 | 4.29 T | 12.8 | 6.36 | 9.48 | 9.28 | 11.9 | 7.15 | 6.81 | 19.7 | 24.5 T |
| Very fine sand | GS_VFS | percent | 16.9 T | 2.9 | 6.42 T | 1.74 | 0.485 T | 24.1 | 13.2 | 13 | 12.8 | 9 | 7.85 | 0.37 | 15.7 | 23.2 T |
| Fines | GS_FINES | percent | 72.6 T | 3.94 T | 22 JT | 7.39 T | 1.79 T | 56.2 T | 77.8 T | 57 T | 64.8 T | 61.2 T | 58.2 T | 0.61 T | 23.1 T | 31.3 T |
| Coarse silt | GS_CSILT | percent | 23.6 T | 0.75 | 5.63 JT | 1.78 | 0.305 T | 22.2 | 12.4 | 26.7 | 19.4 | 18.3 | 15.4 | 0.16 | 7.08 | 12.5 T |
| Medium silt | GS_MSILT | percent | 17.8 T | 0.9 | 6.73 JT | 1.73 | 0.465 T | 13.1 | 22 | 10.9 | 14.3 | 14.7 | 16.9 | 0.19 | 5.23 | 6.63 T |
| Fine silt | GS_FSILT | percent | 11.8 T | 0.6 | 3.45 T | 1.33 | 0.275 T | 7.85 | 18.2 | 7.4 | 9.35 | 9.25 | 9.64 | 0.04 | 3.85 | 4.33 T |
| Very fine silt | GS_VFSILT | percent | 7.82 T | 0.58 | 2.25 T | 1.03 | 0.29 T | 5.52 | 9.93 | 4.33 | 8.81 | 7.17 | 5.21 | 0.05 | 2.59 | 2.81 T |
| 8-9 Phi clay | GS_CCLAY | percent | 4.58 T | 0.51 | 1.56 T | 0.61 | 0.12 T | 3.21 | 5.13 | 2.68 | 5.24 | 4.26 | 3.99 | 0.08 | 1.78 | 2.22 T |
| >9 Phi clay | GS_MFCLAY | percent | 6.96 T | 0.6 | 2.42 T | 0.91 | 0.33 T | 4.34 | 10.1 | 4.99 | 7.65 | 7.56 | 7.1 | 0.09 | 2.61 | 2.85 T |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 29600 JT | 16300 | 16500 JT | 9910 | 8100 JT | 23900 | 21400 | 30200 | 31400 | 28300 | 21700 | 7030 | 13100 | 18100 T |
| Antimony | 7440-36-0 | mg/kg | 0.32 JT | 0.51 J | 0.725 JT | 0.43 J | 0.148 JT | 0.91 J | 0.21 J | 4.46 J | 5.06 J | 2.76 J | 0.84 J | 0.15 J | 0.25 J | 0.25 JT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C748-B2 | LW3-C748-C1 | LW3-C748-C2 | LW3-C748-D1 | LW3-C748-D2 | LW3-C749-B | LW3-C749-C | LW3-C752-B | LW3-C752-C | LW3-C752-D | LW3-C753-B | LW3-C753-C | LW3-C757-B | LW3-C757-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 117 | 78 - 109 | 117 - 185 | 109 - 218 | 185 - 281 | 30 - 134 | 134 - 256 | 30 - 129 | 129 - 252 | 252 - 344 | 30 - 61 | 61 - 183 | 30 - 118 | 118 - 214 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 3.62 T | 2.72 | 2.87 T | 2.38 | 1.55 T | 2.08 | 1.7 | 7.2 | 8.23 | 5.25 | 2.7 | 0.91 | 1.83 | 2.31 T |
| Cadmium | 7440-43-9 | mg/kg | 0.161 T | 0.09 | 0.201 T | 0.067 | 0.029 UT | 0.233 | 0.108 | 0.327 | 0.595 | 43.7 | 0.173 | 0.03 | 0.121 | 0.233 T |
| Chromium | 7440-47-3 | mg/kg | 27 UT | 23.2 | 16.5 UT | 12.1 | 7.69 UT | 23.6 | 20.3 | 40.7 | 46.8 | 42.5 | 22.8 | 7.88 | 14.3 | 18.4 T |
| Copper | 7440-50-8 | mg/kg | 39.7 T | 65 | 46.1 T | 17.8 | 12.4 T | 36 | 28.1 | 311 | 218 | 53.7 | 33.9 | 10.4 | 22.2 | 31.7 T |
| Lead | 7439-92-1 | mg/kg | 14.5 T | 77.3 | 25 T | 15.9 | 2.21 T | 29.1 | 4.49 | 133 | 166 | 168 | 18 | 1.88 | 15.2 | 56.9 T |
| Mercury | 7439-97-6 | mg/kg | 0.0625 JT | 0.033 J | 0.143 JT | 0.078 J | 0.0205 JT | 0.063 | 0.028 | 0.288 | 1.17 | 0.572 | 0.123 J | 0.066 J | 0.039 J | 0.095 JT |
| Nickel | 7440-02-0 | mg/kg | 23.5 T | 19 | 18 T | 14.2 | 12.9 T | 22.5 | 22.1 | 29.1 | 38.8 | 33 | 19.4 | 12.5 | 15.7 | 17.4 T |
| Silver | 7440-22-4 | mg/kg | 0.382 T | 0.189 | 0.514 T | 0.128 | 0.071 T | 1.53 | 0.09 | 1.51 | 1.51 | 1.38 | 0.728 | 0.062 | 0.227 | 0.213 T |
| Zinc | 7440-66-6 | mg/kg | 104 T | 87.2 | 119 T | 70.7 | 42.4 T | 177 | 65.6 | 337 | 651 | 335 | 106 | 42.9 | 69.6 | 159 T |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 1.6 JT | 0.76 J | 9.2 T | 0.66 J | 1.2 JT | 25 | 0.52 J | 13 | 68 | 39 | 2.4 J | 0.31 U | 1.9 | 7.7 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 2.4 JT | 0.89 J | 17 T | 1 J | 1.7 JT | 38 | 0.43 J | 17 | 73 | 64 | 3.6 | 0.39 U | 3.1 | 14 |
| Acenaphthene | 83-32-9 | ug/kg | 2.2 JT | 1.4 J | 15 T | 0.49 J | 1.8 T | 69 | 3 | 18 | 49 | 47 | 3 | 0.23 U | 5.1 | 25 |
| Acenaphthylene | 208-96-8 | ug/kg | 2.3 JT | 1.5 J | 11 T | 1.1 J | 1.7 JT | 13 | 0.24 U | 5.5 | 10 | 19 | 3.2 | 0.24 U | 1.4 J | 4.2 |
| Anthracene | 120-12-7 | ug/kg | 3.3 JT | 2.9 | 17 T | 1.4 J | 2.8 T | 59 | 0.58 J | 15 | 36 | 43 | 7 | 0.47 U | 3.4 | 11 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 12 T | 13 | 48 T | 4.9 | 4.4 T | 140 | 0.76 J | 49 | 120 | 69 | 16 | 0.48 U | 20 | 35 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 14 T | 16 | 52 T | 4.5 | 5.3 T | 150 | 0.55 J | 48 | 100 | 78 | 20 | 0.14 U | 20 | 38 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 20 T | 20 | 68 T | 5.3 | 6.1 T | 180 | 1.1 J | 72 | 150 | 97 | 27 | 0.25 U | 26 | 47 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 13 T | 12 | 39 T | 3.6 | 4 JT | | | | | | 17 | 0.18 U | | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 12 T | 13 | 38 T | 4 | 5 T | 98 | 0.88 J | 37 | 77 | 76 | 18 | 0.64 U | 14 | 29 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 6.7 T | 6.3 | 21 T | 2 | 2.1 T | 63 | 0.35 J | 22 | 43 | 31 | 8.7 | 0.15 U | 8.6 | 13 |
| Chrysene | 218-01-9 | ug/kg | 18 T | 19 | 56 T | 5.1 | 5.4 T | 160 | 1 J | 65 | 140 | 96 | 21 | 0.25 U | 23 | 48 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 1.9 JT | 2.1 | 5.5 T | 0.6 J | 0.65 JT | 19 | 0.34 J | 6.9 | 16 | 9.9 | 2.9 | 0.28 U | 2.7 | 8.6 |
| Dibenzothiophene | 132-65-0 | ug/kg | 1.1 JT | 1.3 J | 8.1 T | 0.44 J | 0.86 JT | 19 | 0.21 U | 8.3 | 32 | 31 | 3.3 | 0.21 U | 1.6 J | 7.8 |
| Fluoranthene | 206-44-0 | ug/kg | 36 T | 31 | 120 T | 9.7 | 15 JT | 350 | 2.6 | 120 | 330 | 310 | 45 | 0.61 U | 38 | 110 |
| Fluorene | 86-73-7 | ug/kg | 2.4 JT | 1 J | 11 T | 0.68 J | 1.8 T | 69 | 1.2 J | 19 | 55 | 51 | 5.5 | 0.5 U | 4.1 | 30 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 12 T | 14 | 36 T | 4 | 4.4 T | 120 | 0.65 U | 39 | 80 | 67 | 16 | 0.16 U | 15 | 30 |
| Naphthalene | 91-20-3 | ug/kg | 8.4 T | 3.5 | 38 T | 2.5 U | 5 T | 93 | 1.3 U | 24 | 46 | 99 | 10 | 0.91 U | 6.7 | 17 |
| Perylene | 198-55-0 | ug/kg | 23 T | 12 | 42 T | 2.8 | 4.6 JT | | | | | | 28 | 0.32 U | | |
| Phenanthrene | 85-01-8 | ug/kg | 21 T | 20 | 85 T | 6.7 | 13 JT | 320 | 3.5 | 100 | 300 | 300 | 48 | 0.75 U | 23 | 85 |
| Pyrene | 129-00-0 | ug/kg | 33 T | 35 | 130 T | 12 | 18 JT | 290 | 2.1 | 120 | 310 | 300 | 44 | 0.37 J | 37 | 93 |
| High Molecular Weight PAH | HPAH | ug/kg | 170 JT | 170 T | 570 T | 52 JT | 66 JT | 1600 T | 9.7 JT | 580 T | 1400 T | 1100 T | 220 T | 0.37 JT | 200 T | 450 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 42 JT | 31 JT | 190 T | 11 JT | 28 JT | 660 T | 8.7 JT | 200 T | 570 T | 620 T | 80 T | 0.91 UT | 47 JT | 190 T |
| Total PAHs | 130498-29-2 | ug/kg | 210 JT | 200 JT | 770 T | 63 JT | 94 JT | 2200 T | 18 JT | 780 T | 1900 T | 1800 T | 300 T | 0.37 JT | 250 JT | 640 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 2.5 JT | 1.2 J | 45 T | 2.7 | 3.3 T | | | | | | 3.3 | 0.21 U | | |
| C1-Chrysene | C1_218-01-9 | ug/kg | 9.9 T | 11 | 59 T | 4.1 | 4.7 T | | | | | | 15 | 0.25 U | | |
| C1-Fluorene | C1_86-73-7 | ug/kg | 2.3 JT | 1.1 J | 16 T | 0.79 J | 1.9 JT | | | | | | 3.9 | 0.5 U | | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 21 T | 16 | 83 T | 7.3 | 8.4 T | | | | | | 24 | 0.61 U | | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 14 T | 10 | 100 T | 6.6 | 10 T | | | | | | 0.75 U | 0.75 U | | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 5 T | 2.9 | 63 T | 2.8 | 3.1 T | | | | | | 15 | 0.21 U | | |
| C2-Chrysene | C2_218-01-9 | ug/kg | 17 T | 8.7 | 53 T | 2.6 | 4.2 T | | | | | | 24 | 0.25 U | | |
| C2-Fluorene | C2_86-73-7 | ug/kg | 5.3 T | 2.7 | 32 T | 3.8 | 3.4 T | | | | | | 0.5 U | 0.5 U | | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 3.9 T | 1.7 | 51 T | 2.8 | 4.7 T | | | | | | 10 | 0.37 U | | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 16 T | 6.2 | 120 T | 6 | 9.5 T | | | | | | 33 | 0.75 U | | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 7.7 T | 2.7 | 65 T | 3.1 | 3.5 T | | | | | | 8.4 | 0.21 U | | |
| C3-Chrysene | C3_218-01-9 | ug/kg | 16 T | 7.5 | 43 T | 3.3 | 3.5 T | | | | | | 18 | 0.25 U | | |
| C3-Fluorene | C3_86-73-7 | ug/kg | 7.4 T | 3.3 | 82 T | 3.9 | 6.2 T | | | | | | 13 | 0.5 U | | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 4 T | 1.2 J | 86 T | 2.6 | 4.7 T | | | | | | 10 | 0.37 U | | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 18 T | 7.7 | 130 T | 8.3 | 13 T | | | | | | 25 | 0.75 U | | |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 UT | 0.25 U | 23 T | 0.25 U | 0.25 UT | | | | | | 11 | 0.25 U | | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 5.4 T | 3.3 | 98 T | 4.7 | 6.5 T | | | | | | 10 | 0.37 U | | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 9.5 T | 4.1 | 82 T | 3.2 | 6.9 T | | | | | | 13 | 0.75 U | | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 16 T | 8.1 | 70 T | 5 | 5.4 T | | | | | | 28 | 0.61 U | | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 12 T | 6.1 | 55 T | 3.1 | 3.8 T | | | | | | 18 | 0.61 U | | |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | 372 | 630 | 366 | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | 63.4 | 86.6 | 61.3 | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | 221 | 429 | 268 | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | 395 | 854 | 159 | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | 1210 | 2910 | 735 | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | 372 | 577 | 138 | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | 157 | 340 | 92.2 | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | 173 | 47.1 | 28.6 | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | 138 | 193 | 97 | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | 9.96 U | 9.76 U | 9.83 U | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C748-B2 | LW3-C748-C1 | LW3-C748-C2 | LW3-C748-D1 | LW3-C748-D2 | LW3-C749-B | LW3-C749-C | LW3-C752-B | LW3-C752-C | LW3-C752-D | LW3-C753-B | LW3-C753-C | LW3-C757-B | LW3-C757-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 117 | 78 - 109 | 117 - 185 | 109 - 218 | 185 - 281 | 30 - 134 | 134 - 256 | 30 - 129 | 129 - 252 | 252 - 344 | 30 - 61 | 61 - 183 | 30 - 118 | 118 - 214 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | 541 | 1020 | 377 | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | 1150 | 2500 | 697 | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | 820 | 1860 | 526 | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | 1980 | 4310 | 948 | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | 165 | 339 | 60.4 | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | 1920 | 3460 | 1160 | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | 997 | 1940 | 596 | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | 4.98 U | 5.6 | 4.92 U | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | 128 | 254 | 59.6 | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | 788 | 596 | 512 | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | 1020 | 884 | 857 | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | 3450 | 5780 | 2650 | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | 17.2 | 29.2 | 8.44 | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | 3040 | 5480 | 2440 | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | 40.1 | 71 | 28.2 | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | 64.7 | 93 | 49.7 | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | 6.57 | 4.88 U | 6.23 | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | 873 | 1510 | 628 | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | 40.5 | 63.5 | 135 | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | 24.5 | 30.1 | 73.7 | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | 814 | 1020 | 405 | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | 5090 | 6490 | 3560 | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | 1470 | 2010 | 1730 | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | 7440 | 8160 | 9940 | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | 10300 | 10900 | 6650 | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | 548 | 836 | 241 | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | 242 | 373 | 140 | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | 1590 | 2060 | 3660 | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | 928 | 1330 | 517 | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | 14.6 | 21.6 | 11 | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | 203 | 276 | 145 | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | 17900 | 16600 | 12400 | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | 785 | 959 | 394 | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | 11.4 | 12 | 4.92 U | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | 157 | 137 | 110 | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | 3410 | 4280 | 1590 | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | 50 | 47.5 | 41.8 | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | 48 | 52.2 | 105 | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | 14200 | 14700 | 9660 | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | 291 | 355 | 231 | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | 6320 | 8590 | 7620 | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | 149 | 187 | 79.8 | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | 98.5 | 124 | 297 | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | 3460 | 4200 | 1880 | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | 399 | 578 | 157 | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | 307 | 284 | 276 | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | 79.7 | 46.3 | 15.3 | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | 3500 | 2830 | 604 | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | 14400 | 11900 | 7410 | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | 4160 | 3580 | 928 | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | 82.2 | 153 | 63.9 | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | 11700 | 9270 | 2300 | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | 4050 | 3660 | 2990 | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | 255 | 201 | 65.2 | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | 33900 | 29500 | 15400 | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | 106 | 94.5 | 63.1 | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | 26300 | 22900 | 15200 | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | 179 | 163 | 104 | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C748-B2 | LW3-C748-C1 | LW3-C748-C2 | LW3-C748-D1 | LW3-C748-D2 | LW3-C749-B | LW3-C749-C | LW3-C752-B | LW3-C752-C | LW3-C752-D | LW3-C753-B | LW3-C753-C | LW3-C757-B | LW3-C757-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 117 | 78 - 109 | 117 - 185 | 109 - 218 | 185 - 281 | 30 - 134 | 134 - 256 | 30 - 129 | 129 - 252 | 252 - 344 | 30 - 61 | 61 - 183 | 30 - 118 | 118 - 214 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | 9100 | 7410 | 3960 | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | 13100 | 11500 | 8130 | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | 95.1 | 174 | 178 | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | 269 | 453 | 343 | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | 8920 | 7330 | 1490 | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | 25600 | 21200 | 9700 | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | 1860 | 1700 | 953 | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | 1350 | 1200 | 730 | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | 36200 | 30700 | 17500 | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | 413 | 430 | 112 | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | 80.8 | 142 | 225 | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | 587 | 405 | 70.3 | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | 591 | 776 | 738 | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | 82.5 | 44.6 | 91.6 | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | 297 | 228 | 53.6 | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | 341 | 223 | 48.9 | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | 1120 | 809 | 159 | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | 136 | 104 | 23.1 | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | 4630 | 3540 | 809 | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | 1500 | 1110 | 218 | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | 1850 | 1760 | 451 | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | 8960 | 8230 | 2790 | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | 943 | 1380 | 401 | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | 1730 | 1510 | 545 | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | 3670 | 5620 | 2020 | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | 3810 | 4450 | 1920 | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | 1560 | 1140 | 238 | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | 28200 | 26300 | 7560 | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | 21000 | 27100 | 10700 | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | 190 | 480 | 152 | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | 4940 | 4860 | 1330 | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | 1210 | 1250 | 368 | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | 11.4 | 9.37 | 4.92 U | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | 4070 | 6810 | 2360 | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | 638 | 734 | 286 | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | 54.6 | 324 | 101 | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | 43.9 | 193 | 76.5 | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | 5480 | 8090 | 2910 | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | 27.3 | 22.3 | 10.5 | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | 24400 | 26700 | 10000 | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | 421 | 1490 | 520 | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | 4.98 U | 9.88 | 4.94 | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | 2870 | 2340 | 524 | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | 616 | 419 | 75 | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | 3190 | 2690 | 564 | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | 122 | 78.4 | 14.6 | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | 1070 | 865 | 187 | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | 47.5 | 64.6 | 24.1 | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | 4.11 U | 3.04 J | 3.51 U | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | 5420 | 6360 | 2240 | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | 1520 | 1770 | 633 | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | 900 | 1150 | 409 | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | 155 | 165 | 53.5 | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | 6460 | 8250 | 3070 | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | 267 | 444 | 149 | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | 846 | 1170 | 434 | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | 3550 | 5340 | 1810 | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | 1210 | 2370 | 794 | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | 2800 | 4780 | 1700 | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | 12900 | 16800 | 6520 | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | 42.4 | 91 | 35.8 | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C748-B2 | LW3-C748-C1 | LW3-C748-C2 | LW3-C748-D1 | LW3-C748-D2 | LW3-C749-B | LW3-C749-C | LW3-C752-B | LW3-C752-C | LW3-C752-D | LW3-C753-B | LW3-C753-C | LW3-C757-B | LW3-C757-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 117 | 78 - 109 | 117 - 185 | 109 - 218 | 185 - 281 | 30 - 134 | 134 - 256 | 30 - 129 | 129 - 252 | 252 - 344 | 30 - 61 | 61 - 183 | 30 - 118 | 118 - 214 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | 7380 | 13600 | 4760 | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | 3310 | 4490 | 1750 | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | 5.36 | 12.7 | 4.92 U | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | 647 | 836 | 335 | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | 10.1 | 66.7 | 17.6 | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | 203 | 228 | 76.3 | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | 1040 | 1260 | 450 | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | 215 | 259 | 88.9 | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | 598 | 903 | 307 | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | 2770 | 4870 | 1750 | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | 1120 | 1830 | 803 | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | 3450 | 8400 | 2660 | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | 105 | 180 | 81.2 | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | 153 | 442 | 270 | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | 3300 | 8730 | 2460 | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | 433 | 777 | 339 | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | 392 | 843 | 325 | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | 570 | 2000 | 518 | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | 4.98 U | 4.88 U | 4.92 U | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | 115 | 165 | 66.2 | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | 1070 | 7240 | 1200 | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | 138 | 590 | 134 | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | 268 | 2210 | 349 | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | 554 | 1720 | 1140 | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | 486000 T | 540000 JT | 250000 T | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | 14.9 T | 11.6 JT | 2.7 T | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | 656 T | 1150 T | 695 T | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | 2990 T | 5940 T | 1630 T | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | 16500 T | 29200 T | 11400 T | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | 76300 T | 84600 T | 61900 T | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | 199000 T | 169000 T | 89600 T | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | 127000 T | 140000 JT | 47200 T | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | 49500 T | 70300 T | 25600 T | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | 12400 T | 28200 T | 9270 T | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | 1480 T | 10000 T | 1680 T | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.3 JT | 0.41 U | 2 JT | 0.33 J | 0.16 UT | 2.9 NJ | 0.16 U | 7.3 U | 8.2 U | 10 NJ | 2 NJ | 0.8 U | 1.4 NJ | 7.6 NJ |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.2 UT | 0.37 U | 0.046 UT | 0.16 U | 0.046 UT | 0.47 U | 0.07 U | 6 U | 2.9 U | 1.6 U | 0.24 U | 0.23 U | 0.74 U | 2.2 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.65 UT | 1.4 | 1.9 JT | 0.31 NJ | 0.061 UT | 2.3 J | 0.068 U | 28 | 30 | 7.5 J | 2.4 J | 0.31 U | 0.84 J | 3.8 J |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.93 T | 0.46 | 1.5 T | 0.32 | 0.073 UT | 3.1 | 0.073 U | 4.4 | 9.4 | 12 | 1.2 | 0.37 U | 1.1 J | 6.4 J |
| 4,4'-DDE | 72-55-9 | ug/kg | 1.9 JT | 0.26 U | 2.1 JT | 0.43 J | 0.076 JT | 3.3 J | 0.027 U | 3 U | 6.7 U | 14 NJ | 1.8 J | 0.14 U | 1.3 J | 4.2 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 1.9 JT | 1.8 | 2 T | 0.4 | 0.18 UT | 3 | 0.18 U | 32 U | 36 U | 6.4 U | 3.4 | 0.9 U | 1.5 | 5.5 |
| Aldrin | 309-00-2 | ug/kg | 0.53 JT | 0.12 U | 0.12 UT | 0.12 U | 0.12 UT | 0.12 U | 0.12 U | 0.12 U | 0.6 U | 0.95 U | 0.84 J | 0.6 U | 0.31 U | 1.6 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.32 JT | 0.037 U | 0.15 UT | 0.037 U | 0.037 UT | 0.2 J | 0.037 U | 0.18 U | 1.1 U | 0.43 J | 0.38 J | 0.19 U | 0.18 U | 0.92 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 UT | 0.097 U | 0.097 UT | 0.097 U | 0.097 UT | 0.097 U | 0.097 U | 0.097 U | 0.94 U | 0.49 U | 0.49 U | 0.49 U | 0.097 U | 0.16 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.17 UT | 0.14 U | 0.16 UT | 0.031 U | 0.031 UT | 0.46 | 0.037 U | 1.3 U | 1.9 U | 0.78 U | 0.33 U | 0.16 U | 0.24 NJ | 0.24 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 UT | 0.14 U | 0.14 UT | 0.14 U | 0.14 UT | 0.48 NJ | 0.14 U | 0.22 U | 0.7 U | 0.7 U | 0.71 U | 0.7 U | 0.31 J | 0.16 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.11 JT | 0.031 U | 0.031 UT | 0.031 U | 0.031 UT | 0.37 | 0.031 U | 0.64 U | 0.84 U | 0.16 U | 0.33 J | 0.16 U | 1.7 | 9.2 J |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.58 UT | 0.76 U | 0.95 UT | 0.22 U | 0.087 UT | 0.21 U | 0.087 U | 12 U | 19 U | 5.2 U | 0.97 U | 0.44 U | 0.77 U | 3.1 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 UT | 0.11 U | 0.11 UT | 0.11 U | 0.11 UT | 0.22 U | 0.11 U | 0.19 U | 1.7 J | 0.67 U | 0.56 U | 0.55 U | 0.11 U | 0.35 U |
| Dieldrin | 60-57-1 | ug/kg | 0.48 UT | 0.2 U | 0.069 UT | 0.14 U | 0.03 UT | 0.19 U | 0.14 J | 0.19 U | 0.84 U | 2 U | 0.78 U | 0.15 U | 0.15 U | 0.34 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.2 UT | 0.058 U | 0.058 UT | 0.058 U | 0.058 UT | 0.16 U | 0.058 U | 0.18 U | 0.84 U | 0.29 U | 1.1 U | 0.29 U | 0.15 U | 0.17 U |
| Endrin | 72-20-8 | ug/kg | 0.071 UT | 0.076 U | 0.15 UT | 0.071 U | 0.071 UT | 0.11 U | 0.071 U | 1.9 U | 2.1 | 0.36 U | 0.36 U | 0.36 U | 0.15 U | 0.16 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.37 JT | 0.14 U | 0.15 UT | 0.053 U | 0.042 UT | 0.5 U | 0.045 U | 1.5 U | 2 U | 1.3 U | 0.36 U | 0.21 U | 0.15 U | 0.18 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.55 JT | 0.14 U | 0.29 UT | 0.14 U | 0.029 UT | 0.57 U | 0.029 U | 3 U | 4.3 U | 1.8 U | 1.1 U | 0.15 U | 0.18 U | 0.63 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.2 UT | 0.21 U | 0.17 JT | 0.062 U | 0.062 UT | 0.25 U | 0.064 U | 0.33 U | 0.84 U | 0.78 U | 0.32 U | 0.31 U | 0.15 U | 0.31 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 UT | 0.076 U | 0.22 JT | 0.076 U | 0.076 UT | 0.31 NJ | 0.076 U | 0.52 U | 0.8 U | 0.45 U | 0.6 J | 0.38 U | 0.24 U | 0.29 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.75 JT | 0.23 U | 0.26 UT | 0.091 J | 0.068 UT | 0.35 U | 0.068 U | 3.1 U | 3.4 U | 0.96 U | 1.2 J | 0.34 U | 0.26 U | 1.4 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.91 UT | 0.12 U | 0.21 UT | 0.075 U | 0.075 UT | 0.62 U | 0.075 U | 1.5 U | 2.4 U | 1.4 U | 2.1 U | 0.38 U | 0.7 | 1.9 J |
| Mirex | 2385-85-5 | ug/kg | 0.12 UT | 0.12 U | 0.16 JT | 0.12 U | 0.12 UT | 0.12 U | 0.12 U | 0.19 | 0.6 U | 0.6 U | 0.61 U | 0.6 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 UT | 0.061 U | 0.17 JT | 0.061 U | 0.061 UT | 0.26 U | 0.061 U | 0.061 U | 0.31 U | 0.87 U | 0.31 U | 0.31 U | 0.15 U | 0.46 |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.65 JT | 0.76 UT | 1.4 JT | 0.051 JT | 0.087 UT | 0.66 T | 0.087 UT | 14 JT | 19 UT | 5.2 UT | 1.5 JT | 0.44 UT | 5.8 JT | 26 JT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C748-B2 | LW3-C748-C1 | LW3-C748-C2 | LW3-C748-D1 | LW3-C748-D2 | LW3-C749-B | LW3-C749-C | LW3-C752-B | LW3-C752-C | LW3-C752-D | LW3-C753-B | LW3-C753-C | LW3-C757-B | LW3-C757-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 117 | 78 - 109 | 117 - 185 | 109 - 218 | 185 - 281 | 30 - 134 | 134 - 256 | 30 - 129 | 129 - 252 | 252 - 344 | 30 - 61 | 61 - 183 | 30 - 118 | 118 - 214 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.32 JT | 0.14 UT | 0.16 UT | 0.058 UT | 0.058 UT | 0.66 JT | 0.058 UT | 1.3 UT | 1.9 UT | 0.43 JT | 0.38 JT | 0.29 UT | 0.24 JT | 0.92 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 1.2 JT | 0.46 T | 3.5 JT | 0.65 JT | 0.16 UT | 6 JT | 0.16 UT | 4.4 T | 9.4 T | 22 JT | 3.2 JT | 0.8 UT | 2.5 JT | 14 JT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 5 JT | 3.7 T | 9.5 JT | 1.8 JT | 0.076 JT | 15 JT | 0.18 UT | 32 T | 39 T | 44 JT | 11 JT | 0.9 UT | 6.1 JT | 28 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 1.9 JT | 0.37 UT | 2.1 JT | 0.43 JT | 0.076 JT | 3.3 JT | 0.07 UT | 6 UT | 6.7 UT | 14 JT | 1.8 JT | 0.23 UT | 1.3 JT | 4.2 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 1.9 JT | 3.2 T | 3.9 JT | 0.71 JT | 0.18 UT | 5.3 JT | 0.18 UT | 28 T | 30 T | 7.5 JT | 5.8 JT | 0.9 UT | 2.3 JT | 9.3 JT |
| Toxaphene | 8001-35-2 | ug/kg | 12 UT | 12 U | 22 UT | 11 U | 3.4 UT | 59 U | 3.4 U | 130 U | 420 U | 130 U | 51 U | 21 U | 27 U | 40 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.45 JT | 0.14 U | 1.2 JT | 0.051 NJ | 0.027 UT | 0.66 U | 0.033 U | 14 NJ | 1.3 U | 1.5 U | 1.2 | 0.14 U | 2.9 | 12 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.092 JT | 0.034 U | 0.042 JT | 0.034 U | 0.034 UT | 0.29 | 0.034 U | 0.32 U | 0.84 U | 0.78 U | 0.25 U | 0.17 U | 1.2 J | 4.5 |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 73.5 JT | 22 J | 175 JT | 26 J | 7.2 JT | 170 J | 4.4 J | 290 J | 600 J | 580 J | 120 J | 1.6 U | 78 J | 175 JT |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 59 JT | 20 J | 155 JT | 25 J | 6.11 JT | 110 J | 2.7 J | 260 J | 570 J | 540 J | 93 J | 1.6 U | 66 J | 145 JT |
| Residual Range Hydrocarbons | RRH | mg/kg | 415 JT | 110 J | 455 JT | 82 J | 18.2 JT | 490 J | 48 J | 830 J | 1300 J | 1300 J | 630 J | 14 U | 300 J | 670 JT |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 235 JT | 73 J | 350 JT | 65 J | 11.6 JT | 260 J | 19 U | 620 J | 1100 J | 1100 J | 350 J | 7 U | 190 J | 470 JT |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 489 JA | 132 JA | 630 JA | 108 JA | 25.4 JA | 660 JA | 52.4 JA | 1120 JA | 1900 JA | 1880 JA | 750 JA | 14 UA | 378 JA | 845 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 294 JA | 93 JA | 505 JA | 90 JA | 17.7 JA | 370 JA | 2.7 JA | 880 JA | 1670 JA | 1640 JA | 443 JA | 7 UA | 256 JA | 615 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.41 UT | 0.28 U | 0.29 UT | 0.28 U | 0.24 UT | 0.33 U | 0.31 U | 0.36 U | 0.34 U | 0.31 U | 2.6 U | 0.26 U | 0.57 U | 0.41 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.33 UT | 0.23 U | 0.24 UT | 0.23 U | 0.2 UT | 0.31 U | 0.25 U | 0.29 U | 0.28 U | 0.25 U | 0.35 U | 0.21 U | 0.25 U | 0.27 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 3.5 UT | 6.6 U | 3.4 UT | 6.5 U | 2.7 UT | 7.8 U | 7.2 U | 8.4 U | 3.6 U | 3.4 U | 5 U | 3.6 U | 2.2 U | 3.2 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.22 UT | 0.15 U | 0.4 JT | 0.15 U | 0.13 UT | 0.17 U | 0.16 U | 0.23 U | 0.41 U | 0.83 J | 0.23 U | 0.14 U | 0.34 J | 0.25 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 UT | 1 U | 5 UT | 1 U | 1 UT | 1 U | 1 U | 5 U | 10 U | 20 U | 2 U | 1 U | 1 U | 5 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | R | R | R | R | 5.5 U | R | R | R | R | R | R | R | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 UT | 17 U | 85 UT | 17 U | 17 UT | 17 U | 17 U | 85 U | 170 U | 340 U | 34 U | 17 U | 17 U | 85 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 UT | 2 U | 10 UT | 2 U | 2 UT | 2 U | 2 U | 10 U | 20 U | 40 U | 4 U | 2 U | 2 U | 10 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 UT | 1.5 U | 7.5 UT | 1.5 U | 1.5 UT | 6.6 J | 1.5 U | 7.5 U | 15 U | 30 U | 3 U | 1.5 U | 1.5 U | 7.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 UT | 1.5 U | 7.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 U | 7.5 U | 15 U | 30 U | 3 U | 1.5 U | 1.5 U | 7.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 UT | 1.4 U | 7 UT | 1.4 U | 1.4 UT | 1.4 U | 1.4 U | 7 U | 14 U | 28 U | 2.8 U | 1.4 U | 1.4 U | 7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 UT | 1.4 U | 7 UT | 1.4 U | 1.4 UT | 1.4 U | 1.4 U | 7 U | 14 U | 28 U | 2.8 U | 1.4 U | 1.4 U | 7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 1.5 UT | 1.5 U | 7.5 UT | 1.5 U | 4.6 JT | 170 | 1.6 J | 32 J | 15 U | 59 J | 3 U | 1.5 U | 10 | 54 |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 UT | 18 U | 90 UT | 18 U | 18 UT | 18 U | 18 U | 90 U | 180 U | 360 U | 36 U | 18 U | 18 U | 90 UJ |
| Pentachlorophenol | 87-86-5 | ug/kg | 28 T | 0.22 U | 2.8 UT | 0.21 U | 0.19 UT | 2 J | 0.23 U | 4.1 J | 2.9 J | 2.3 J | 13 | 0.2 U | 6.3 J | 2.3 J |
| Phenol | 108-95-2 | ug/kg | 2 UT | 2 U | 10 UT | 2 U | 6.9 UT | 24 U | 14 U | 10 U | 20 U | 40 U | 4 U | 2 U | 8 U | 10 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 120 T | 41 | 78 JT | 7 U | 7 UT | 49 | 7 U | 250 | 700 | 160 J | 340 | 7 U | 140 | 320 J |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 UT | 3.2 U | 16 UT | 3.2 U | 3.2 UT | 3.2 U | 3.2 U | 16 U | 32 U | 64 U | 21 | 3.2 U | 3.2 U | 41 J |
| Dibutyl phthalate | 84-74-2 | ug/kg | 12 T | 7.9 U | 40 UT | 7.9 U | 7.9 UT | 7.9 U | 9.5 | 40 U | 79 U | 160 U | 16 U | 7.9 U | 7.9 U | 40 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.3 UT | 1.3 U | 6.5 UT | 2 U | 1.6 UT | 1.3 U | 2.6 J | 6.5 U | 13 U | 26 U | 5.5 U | 1.6 U | 1.3 U | 6.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 UT | 1 U | 5 UT | 1 U | 1 UT | 1 U | 1 U | 5 U | 10 U | 20 U | 2 U | 1 U | 1 U | 5 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 UT | 1.7 U | 8.5 UT | 1.7 U | 1.7 UT | 1.7 U | 1.7 U | 8.5 U | 17 U | 34 U | 3.4 U | 1.7 U | 1.7 U | 8.5 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 UT | 2.6 U | 13 UT | 2.6 U | 2.6 UT | 2.6 U | 2.6 U | 13 U | 26 U | 52 U | 5.2 U | 2.6 U | 2.6 U | 13 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 UT | 2.9 U | 15 UT | 2.9 U | 2.9 UT | 2.9 U | 2.9 U | 15 U | 29 U | 58 U | 5.8 U | 2.9 U | 2.9 U | 15 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 UT | 3 U | 15 UT | 3 U | 2.9 UT | 3 U | 3 U | 15 U | 30 U | 60 U | 6 U | 3 U | 3 U | 15 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 UT | 2.9 U | 15 UT | 2.9 U | 2.9 UT | 2.9 U | 2.9 U | 15 U | 29 U | 58 U | 5.8 U | 2.9 U | 8.1 | 220 J |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 UT | 1.5 U | 7.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 U | 7.5 U | 15 U | 30 U | 3 U | 1.5 U | 1.5 U | 7.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 UT | 2 U | 10 UT | 2 U | 2 UT | 2 U | 2 U | 10 U | 20 U | 40 U | 4 U | 2 U | 2 U | 10 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 UT | 1.6 U | 8 UT | 1.6 U | 1.6 UT | 1.6 U | 1.6 U | 8 U | 16 U | 32 U | 3.2 U | 1.6 U | 1.6 U | 8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 UT | 3.2 U | 16 UT | 3.2 U | 3.2 UT | 3.2 U | 3.2 U | 16 U | 32 U | 64 U | 6.4 U | 3.2 U | 3.2 U | 16 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 UT | 3.7 U | 19 UT | 3.7 U | 3.7 UT | 3.7 U | R | 19 U | 37 U | 74 U | 7.4 U | 3.7 U | 3.7 U | R |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 UT | 2.5 U | 13 UT | 2.5 U | 2.5 UT | 2.5 U | 2.5 U | 13 U | 25 U | 50 U | 5 U | 2.5 U | 2.5 U | 13 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 UT | 1.6 U | 8 UT | 1.6 U | 1.6 UT | 1.6 U | 1.6 U | 8 U | 16 U | 32 U | 3.2 U | 1.6 U | 1.6 U | 8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 UT | 1.9 U | 9.5 UT | 1.9 U | 1.9 UT | 1.9 U | 1.9 UJ | 9.5 U | 19 U | 38 U | 3.8 U | 1.9 U | 1.9 U | 13 J |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 UT | 1.4 U | 7 UT | 1.4 U | 1.4 UT | 1.4 U | 1.4 U | 7 U | 14 U | 28 U | 2.8 U | 1.4 U | 1.4 U | 7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 UT | 1.8 U | 9 UT | 1.8 U | 1.8 UT | 1.8 U | 1.8 U | 9 U | 18 U | 36 U | 3.6 U | 1.8 U | 1.8 U | 9 U |
| Aniline | 62-53-3 | ug/kg | 1.5 UT | R | 7.5 UT | R | 1.5 UT | 1.5 U | 1.5 U | R | R | R | R | R | R | R |
| Azobenzene | 103-33-3 | ug/kg | 1.1 UT | 1.1 U | 5.5 UT | 1.1 U | 1.1 JT | 1.1 U | 1.1 UJ | 5.5 U | 11 U | 22 U | 2.2 U | 1.1 U | 1.1 U | 5.5 UJ |
| Benzoic acid | 65-85-0 | ug/kg | 150 JT | 96 U | 480 UT | 96 U | 96 UT | R | R | 480 U | 960 U | 2000 U | 220 J | 96 U | 96 U | 480 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 5.7 JT | 3.4 J | 11 UT | 2.7 J | 3.4 JT | 3.9 J | 5.6 J | 11 U | 21 U | 42 U | 9 J | 2.3 J | 6 J | 11 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 UT | 1.5 U | 7.5 UT | 1.5 U | 1.5 UT | 1.5 U | 1.5 U | 7.5 U | 15 U | 30 U | 3 U | 1.5 U | 1.5 U | 7.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 UT | 1.9 U | 9.5 UT | 1.9 U | 1.9 UT | 1.9 UJ | 1.9 U | 9.5 U | 19 U | 38 U | 3.8 U | 1.9 U | 1.9 U | 9.5 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 UJT | 2.6 U | 13 JT | 2.6 U | 2.6 JT | 2.6 U | 2.6 U | 13 U | 26 U | 52 U | 5.2 U | 2.6 U | 2.6 U | 13 U |
| Carbazole | 86-74-8 | ug/kg | 2.5 JT | 2.3 J | 6.8 JT | 1.3 U | 1.3 UT | 25 | 1.3 U | 6.5 U | 13 U | 26 U | 2.6 U | 1.3 U | 2.1 J | 7.1 J |
| Dibenzofuran | 132-64-9 | ug/kg | 1.7 JT | 0.75 J | 5.8 T | 0.59 U | 0.81 JT | 39 | 0.59 U | 9.2 | 24 | 27 | 1.8 J | 0.59 U | 1.9 | 14 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 UT | 0.068 U | 6 UT | 0.068 U | 0.068 UT | 0.16 U | 0.068 U | 0.15 J | 0.84 U | 0.65 J | 0.35 U | 0.34 U | 0.12 J | 6 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C748-B2 | LW3-C748-C1 | LW3-C748-C2 | LW3-C748-D1 | LW3-C748-D2 | LW3-C749-B | LW3-C749-C | LW3-C752-B | LW3-C752-C | LW3-C752-D | LW3-C753-B | LW3-C753-C | LW3-C757-B | LW3-C757-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 117 | 78 - 109 | 117 - 185 | 109 - 218 | 185 - 281 | 30 - 134 | 134 - 256 | 30 - 129 | 129 - 252 | 252 - 344 | 30 - 61 | 61 - 183 | 30 - 118 | 118 - 214 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.31 T | 0.14 U | 13 UT | 0.14 U | 0.14 UT | 0.14 U | 0.14 U | 0.5 U | 0.7 U | 0.7 U | 0.71 U | 0.7 U | 0.14 U | 0.21 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 UT | 29 U | 150 UT | 29 U | 29 UT | 29 U | 29 U | 150 U | 290 U | 580 U | 58 U | 29 U | 29 U | R |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 UT | 0.16 U | 0.16 UT | 0.16 U | 0.16 UT | 0.16 U | 0.16 U | 0.31 U | 0.8 U | 0.8 U | 0.81 U | 0.8 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 1 UT | 1 U | 5 UT | 1 U | 1 UT | 1 U | 1 U | 5 U | 10 U | 20 U | 2 U | 1 U | 1 U | 5 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 UT | 2.2 U | 11 UT | 2.2 U | 2.2 UT | 2.2 U | 2.2 U | 11 U | 22 U | 44 U | 4.4 U | 2.2 U | 2.2 U | 11 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 UT | 6.1 U | 31 UT | 6.1 U | 6.1 UT | 6.1 U | 6.1 UJ | 31 U | 61 U | 130 U | 13 U | 6.1 U | 6.1 U | 31 UJ |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 UT | 1.6 U | 8 UT | 1.6 U | 1.6 UT | 1.6 U | 1.6 U | 8 U | 16 U | 32 U | 3.2 U | 1.6 U | 1.6 U | 8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 UT | 2.4 U | 12 UT | 2.4 U | 2.4 UT | 2.4 U | 2.4 U | 12 U | 24 U | 48 U | 4.8 U | 2.4 U | 2.4 U | 12 U |

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C757-E | LW3-C760-B | LW3-C760-C | LW3-C760-D | LW3-C762-B | LW3-C762-C | LW3-C762-D | LW3-C762-E | LW3-C764-B1 | LW3-C764-B2 | LW3-C764-C1 | LW3-C764-C2 | LW3-C764-D1 | LW3-C764-D2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 295 - 328 | 30 - 85 | 85 - 185 | 185 - 206 | 30 - 101 | 101 - 144 | 144 - 275 | 275 - 302 | 30 - 129 | 30 - 92 | 129 - 216 | 92 - 150 | 216 - 306 | 150 - 236 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.4 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 4 U | 2.4 J | 1.3 U | 1.3 U | 1.3 U | 19 | 16 J | 1.3 U | 6.2 U | 3.7 U | 7.5 J | 4.7 J | 12 | 11 |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 3.8 J | 3.5 J | 1.3 U | 4.5 | 1.3 U | 39 J | 57 | 2.2 J | 16 | 11 J | 16 | 11 | 51 | 29 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 1.3 U | 4.7 | 1.3 U | 3.6 J | 4.1 | 38 J | 62 | 2 J | 24 J | 11 | 25 J | 13 J | 57 J | 31 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.3 U | 95 | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U | 1.3 U | 3.7 U |
| Aroclors | 12767-79-2 | ug/kg | 3.8 JT | 10.6 JT | 95 T | 8.1 JT | 4.1 T | 96 JT | 135 JT | 4.2 JT | 40 JT | 22 JT | 48.5 JT | 28.7 JT | 120 JT | 71 T |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.95 T | 1.75 | 1.51 T | 1.95 | 1.54 | 1.66 | 1.58 | 1.69 | 1.67 | 1.59 | 1.56 | 1.76 | 1.6 | 1.68 |
| Total organic carbon | TOC | percent | 0.09 | 0.97 | 2.85 T | 1.68 | 1.48 | 1.18 | 2.04 | 1.52 | 1.65 | 1.46 | 1.56 | 0.8 | 3.02 | 2.08 |
| Total solids | TSO | percent | 68.6 | 63.2 | 51 T | 75.2 | 56.4 | 64.9 | 58.8 | 61.9 | 54.6 | 58.4 | 58.8 | 65.4 | 56.2 | 59.4 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 3.88 | 1.24 | 0.29 T | 0.65 | 0 | 0.02 | 3.3 | 0.15 | 0.36 | 0.83 | 0.5 | 0.18 | 0 | 0 |
| Fine gravel | GS_FG | percent | 7.9 | 0.55 | 3.88 JT | 2.3 | 0.41 | 0.43 | 5.93 | 0.09 | 1.35 | 0.95 | 0.96 | 0.6 | 3.84 | 1.54 |
| Very coarse sand | GS_VCS | percent | 8.43 | 0.96 | 2.63 T | 2.71 | 0.56 | 0.61 | 1.72 | 0.56 | 1.47 | 1.22 | 0.81 | 0.49 | 2.34 | 1.84 |
| Coarse sand | GS_CS | percent | 7.82 | 12.6 | 2.65 T | 12.8 | 0.54 | 1.04 | 1.7 | 1.6 | 1.58 | 13.9 | 0.84 | 1.49 | 1.52 | 2.4 |
| Medium sand | GS_MS | percent | 5.42 | 28.3 | 3.76 T | 36.5 | 0.8 | 4.47 | 4.48 | 8.73 | 11.5 | 25 | 9.88 | 21.4 | 7.45 | 21.3 |
| Fine sand | GS_FS | percent | 4.41 | 27.9 | 7.67 T | 25.5 | 17.9 | 32.3 | 7.74 | 7.26 | 14.5 | 9.78 | 34.8 | 49.7 | 12.2 | 17.5 |
| Very fine sand | GS_VFS | percent | 3.75 | 11.4 | 10.6 T | 3.52 | 28.3 | 19.9 | 12.8 | 24.2 | 11.3 | 5.89 | 9.06 | 5.36 | 9.42 | 8.28 |
| Fines | GS_FINES | percent | 59.1 T | 23 T | 67.7 JT | 14.2 T | 55.2 T | 40.9 T | 61.7 T | 60.8 T | 67 T | 46.6 T | 46.6 T | 23.6 T | 61.5 T | 52.6 T |
| Coarse silt | GS_CSILT | percent | 8.98 | 10.7 | 34.6 T | 3.27 | 23.6 | 14.7 | 19 | 19.2 | 27.2 | 21.6 | 18.7 | 6.37 | 21.3 | 18.2 |
| Medium silt | GS_MSILT | percent | 17.3 | 4.54 | 10.5 JT | 3.23 | 11.3 | 9.17 | 12.3 | 14.4 | 14.9 | 9.25 | 10.6 | 5.92 | 15.6 | 12.8 |
| Fine silt | GS_FSILT | percent | 15 | 2.99 | 9.83 T | 2.11 | 7.19 | 5.81 | 9.51 | 9.15 | 9.95 | 5.87 | 9.74 | 4.79 | 9.59 | 7.8 |
| Very fine silt | GS_VFSILT | percent | 7.6 | 2.32 | 4.83 JT | 2.32 | 4.74 | 4.53 | 7.47 | 5.99 | 6.06 | 3.88 | 2.9 | 2.52 | 6.4 | 5.23 |
| 8-9 Phi clay | GS_CCLAY | percent | 4.19 | 0.94 | 3.34 T | 1.63 | 3.65 | 2.38 | 3.93 | 3.77 | 3.35 | 1.99 | 1.17 | 1.61 | 3.67 | 3.1 |
| >9 Phi clay | GS_MFCLAY | percent | 6 | 1.49 | 4.61 JT | 1.68 | 4.69 | 4.31 | 9.46 | 8.28 | 5.57 | 3.96 | 3.52 | 2.38 | 4.94 | 5.46 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 18200 | 20400 | 31300 T | 18100 | 27100 | 23500 | 37800 | 33200 | 27300 | 20400 J | 23400 | 15700 J | 27900 | 21800 J |
| Antimony | 7440-36-0 | mg/kg | 0.73 J | 0.31 J | 0.23 JT | 0.23 J | 0.39 J | 0.49 J | 0.35 J | 0.23 J | 0.37 J | 0.38 J | 0.34 J | 0.37 J | 0.36 J | 0.35 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C757-E | LW3-C760-B | LW3-C760-C | LW3-C760-D | LW3-C762-B | LW3-C762-C | LW3-C762-D | LW3-C762-E | LW3-C764-B1 | LW3-C764-B2 | LW3-C764-C1 | LW3-C764-C2 | LW3-C764-D1 | LW3-C764-D2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 295 - 328 | 30 - 85 | 85 - 185 | 185 - 206 | 30 - 101 | 101 - 144 | 144 - 275 | 275 - 302 | 30 - 129 | 30 - 92 | 129 - 216 | 92 - 150 | 216 - 306 | 150 - 236 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 7.36 | 3.42 | 4.11 T | 2.47 | 3.15 | 3.06 | 4.36 | 4.32 | 3.55 | 2.94 | 2.63 | 1.92 | 3.16 | 2.78 |
| Cadmium | 7440-43-9 | mg/kg | 0.161 | 0.114 | 0.172 T | 0.079 | 0.134 | 0.214 | 0.406 | 0.123 | 0.276 | 0.216 | 0.254 | 0.235 | 0.324 | 0.248 |
| Chromium | 7440-47-3 | mg/kg | 16.6 | 21.1 | 27.1 T | 17.7 | 23.2 | 20.8 | 29.3 | 24.1 | 27.5 | 22.7 U | 22.2 | 16.8 U | 25.5 | 21.3 U |
| Copper | 7440-50-8 | mg/kg | 27.8 | 26.2 | 39.7 T | 20.4 | 31.9 | 33.8 | 51.3 | 32.6 | 38.1 | 31.7 | 31.3 | 22.5 | 37.5 | 33 |
| Lead | 7439-92-1 | mg/kg | 16.4 | 10.5 | 12.3 T | 8.75 | 10.2 | 20.6 | 38.7 | 6.87 | 27 | 19.5 | 30.7 | 18.2 | 40.4 | 34.2 |
| Mercury | 7439-97-6 | mg/kg | 0.017 J | 0.033 | 0.067 T | 0.041 | 0.043 | 0.27 | 0.146 | 0.093 | 0.088 J | 0.066 J | 0.115 J | 0.073 J | 0.173 J | 0.089 J |
| Nickel | 7440-02-0 | mg/kg | 18 | 21.6 | 24.2 T | 19.1 | 22.9 | 21.7 | 25.5 | 24.3 | 23.7 | 21.1 | 21 | 19.1 | 22.1 | 20 |
| Silver | 7440-22-4 | mg/kg | 0.273 | 0.234 | 0.281 T | 0.184 | 0.39 | 0.647 | 0.948 | 0.263 | 0.615 | 0.602 | 0.445 | 0.334 | 0.809 | 0.689 |
| Zinc | 7440-66-6 | mg/kg | 90.8 | 90.7 | 97.3 T | 77.4 | 94.6 | 185 | 312 | 94.9 | 126 | 102 | 110 | 91.3 | 145 | 131 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 0.48 J | 0.66 J | 1.3 J | 1 J | 0.77 J | 1.6 J | 17 | 0.73 J | 3.3 | 3.6 | 2.5 | 1.5 J | 6 | 5 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 0.86 J | 0.99 J | 1.7 J | 1.3 J | 1.1 J | 2.5 | 29 | 1.3 J | 6 | 5 | 4.2 | 2.3 | 10 | 8.5 |
| Acenaphthene | 83-32-9 | ug/kg | 0.23 J | 1.1 J | 1.7 J | 3.4 | 1 J | 16 | 20 | 6 | 4.3 | 7.3 | 2.9 | 2.2 | 5.3 | 5.2 |
| Acenaphthylene | 208-96-8 | ug/kg | 0.24 U | 0.5 J | 1.8 J | 0.78 J | 1.4 J | 7.6 | 8.3 | 0.43 J | 5 | 6.9 | 2.1 J | 2 J | 9.1 | 7.4 |
| Anthracene | 120-12-7 | ug/kg | 0.47 U | 0.94 J | 2.1 J | 5 | 1.9 J | 18 | 15 | 0.58 J | 4.8 | 5.3 | 4.4 | 2.3 | 7 | 5 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 1.6 J | 5.4 | 5.1 | 11 | 8.7 | 50 | 61 | 4.5 | 21 | 14 | 25 | 9.5 | 17 | 14 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 0.4 J | 5.2 | 5.4 | 10 | 9.9 | 66 | 64 | 4.5 | 25 | 16 | 22 | 13 | 17 | 19 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 0.76 J | 7.8 | 8.3 | 14 | 12 | 68 | 83 | 6.5 | 32 | 22 | 31 | 15 | 25 | 26 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | | 4.8 | 5.7 J | 8.8 | 8.5 | 44 | 48 | 4.2 | | | | | | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 0.64 U | 5.1 | 5.9 | 8.6 | 8.5 | 57 | 50 | 3.3 | 20 | 13 | 15 | 13 | 14 | 18 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 0.39 J | 2.6 | 2.8 | 4.1 | 3.8 | 20 | 26 | 2.4 | 11 | 6.2 | 11 | 5.2 | 6.8 | 7.8 |
| Chrysene | 218-01-9 | ug/kg | 0.82 J | 6.4 | 7.2 | 14 | 12 | 60 | 69 | 5 | 31 | 20 | 30 | 13 | 24 | 22 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 0.28 U | 0.91 J | 1 J | 1.3 J | 1.3 J | 6.4 | 8 | 0.7 J | 3.1 | 2.1 J | 2.9 | 1.6 J | 2.2 J | 2.3 |
| Dibenzothiophene | 132-65-0 | ug/kg | 0.21 U | 0.31 J | 0.82 J | 1.2 J | 0.52 J | 9.8 | 9.6 | 0.39 J | 2.9 | 2.9 | 2.1 J | 1.2 J | 3.2 | 3.8 |
| Fluoranthene | 206-44-0 | ug/kg | 1.5 J | 12 | 16 | 34 | 19 | 150 | 150 | 9.4 | 59 | 46 | 72 | 22 | 59 | 47 |
| Fluorene | 86-73-7 | ug/kg | 0.5 U | 0.95 J | 1.7 J | 2.1 | 1.3 J | 14 | 18 | 0.73 J | 5.8 | 5.5 | 3.5 | 2 | 6.5 | 6.4 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 0.39 U | 4.9 | 5.3 | 8.7 | 7.3 | 54 | 50 | 4.4 | 18 | 12 | 16 | 11 | 13 | 16 |
| Naphthalene | 91-20-3 | ug/kg | 1.7 U | 3.2 U | 8.2 | 3.1 U | 4 | 0.62 U | 47 | 2.5 U | 18 | 26 | 11 | 6.8 | 37 | 29 |
| Perylene | 198-55-0 | ug/kg | | 3.4 | 9.1 | 7.5 | 18 | 34 | 42 | 140 | | | | | | |
| Phenanthrene | 85-01-8 | ug/kg | 1.1 J | 6.2 | 11 | 22 | 9.3 | 120 | 110 | 6.9 | 37 | 36 | 36 | 14 | 47 | 40 |
| Pyrene | 129-00-0 | ug/kg | 3.9 | 11 | 15 | 30 | 20 | 160 | 150 | 8.9 | 59 | 46 | 66 | 22 | 61 | 47 |
| High Molecular Weight PAH | HPAH | ug/kg | 9.4 JT | 61 JT | 72 JT | 140 JT | 100 JT | 690 T | 710 T | 50 JT | 280 T | 200 JT | 290 T | 130 JT | 240 JT | 220 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 2.2 JT | 11 JT | 28 JT | 35 JT | 20 JT | 180 T | 250 T | 16 JT | 81 T | 92 T | 64 JT | 32 JT | 120 T | 100 T |
| Total PAHs | 130498-29-2 | ug/kg | 12 JT | 72 JT | 100 JT | 170 JT | 120 JT | 870 T | 960 T | 66 JT | 360 T | 290 JT | 360 JT | 160 JT | 360 JT | 320 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | | 0.21 U | 1.5 J | 1.7 | 2.1 J | 28 | 57 | 2.7 | | | | | | |
| C1-Chrysene | C1_218-01-9 | ug/kg | | 7.5 | 4.3 | 11 | 6.7 | 48 | 60 | 6.2 | | | | | | |
| C1-Fluorene | C1_86-73-7 | ug/kg | | 0.71 J | 1.6 J | 1.4 J | 1.1 J | 13 | 19 | 1.4 J | | | | | | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | | 8.2 J | 8.9 | 22 J | 14 | 77 | 85 | 10 | | | | | | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | | 3.6 | 11 | 13 | 8.2 | 71 | 94 | 5.7 | | | | | | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | | 1.4 J | 3.9 | 2.4 | 3.2 | 38 | 57 | 2.2 | | | | | | |
| C2-Chrysene | C2_218-01-9 | ug/kg | | 5.3 | 13 | 11 | 7.3 | 33 | 49 | 6.7 | | | | | | |
| C2-Fluorene | C2_86-73-7 | ug/kg | | 1.3 J | 3.4 | 3.6 | 2.3 | 37 | 53 | 3.5 | | | | | | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | | 2.1 | 3.7 | 2.9 | 2.4 | 21 | 110 | 5 | | | | | | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | | 3.9 | 8.4 | 9.1 | 7.3 | 69 | 96 | 4.9 | | | | | | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | | 1.7 J | 4.5 | 4.2 | 2.9 | 32 | 56 | 1.6 J | | | | | | |
| C3-Chrysene | C3_218-01-9 | ug/kg | | 6.8 | 7.8 | 14 | 7 | 26 | 45 | 8.3 | | | | | | |
| C3-Fluorene | C3_86-73-7 | ug/kg | | 2 J | 4.9 | 4.6 | 5.7 | 49 | 77 | 3.6 | | | | | | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | | 1.5 J | 3.3 | 2.9 | 2.9 | 71 | 170 | 7.7 | | | | | | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | | 5.6 | 13 | 11 | 8.5 | 71 | 110 | 7.7 | | | | | | |
| C4-Chrysene | C4_218-01-9 | ug/kg | | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 17 | 25 | 0.25 U | | | | | | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | | 0.9 J | 4.9 | 4.4 | 4.5 | 64 | 140 | 10 | | | | | | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | | 2.9 | 6.7 | 5 | 6 | 35 | 54 | 5.7 | | | | | | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | | 5 | 10 | 11 | 11 | 47 | 61 | 9.7 | | | | | | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | | 3.4 | 7.6 | 6.1 | 0.61 U | 34 | 51 | 10 | | | | | | |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C757-E | LW3-C760-B | LW3-C760-C | LW3-C760-D | LW3-C762-B | LW3-C762-C | LW3-C762-D | LW3-C762-E | LW3-C764-B1 | LW3-C764-B2 | LW3-C764-C1 | LW3-C764-C2 | LW3-C764-D1 | LW3-C764-D2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 295 - 328 | 30 - 85 | 85 - 185 | 185 - 206 | 30 - 101 | 101 - 144 | 144 - 275 | 275 - 302 | 30 - 129 | 30 - 92 | 129 - 216 | 92 - 150 | 216 - 306 | 150 - 236 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C757-E | LW3-C760-B | LW3-C760-C | LW3-C760-D | LW3-C762-B | LW3-C762-C | LW3-C762-D | LW3-C762-E | LW3-C764-B1 | LW3-C764-B2 | LW3-C764-C1 | LW3-C764-C2 | LW3-C764-D1 | LW3-C764-D2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 295 - 328 | 30 - 85 | 85 - 185 | 185 - 206 | 30 - 101 | 101 - 144 | 144 - 275 | 275 - 302 | 30 - 129 | 30 - 92 | 129 - 216 | 92 - 150 | 216 - 306 | 150 - 236 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C757-E | LW3-C760-B | LW3-C760-C | LW3-C760-D | LW3-C762-B | LW3-C762-C | LW3-C762-D | LW3-C762-E | LW3-C764-B1 | LW3-C764-B2 | LW3-C764-C1 | LW3-C764-C2 | LW3-C764-D1 | LW3-C764-D2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 295 - 328 | 30 - 85 | 85 - 185 | 185 - 206 | 30 - 101 | 101 - 144 | 144 - 275 | 275 - 302 | 30 - 129 | 30 - 92 | 129 - 216 | 92 - 150 | 216 - 306 | 150 - 236 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.16 U | 0.8 U | 1.3 U | 0.59 U | 0.19 NJ | 1.2 U | 2.5 U | 0.16 U | 1.8 NJ | 1.2 NJ | 0.86 U | 2.4 NJ | 1.8 U | 1.6 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.18 U | 0.26 U | 0.53 U | 0.29 U | 0.3 U | 0.16 U | 1.9 U | 0.22 U | 0.74 U | 0.53 U | 0.76 U | 0.88 U | 1.3 U | 1.4 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.22 J | 0.87 J | 0.71 J | 0.51 J | 0.36 U | 2.4 J | 11 J | 0.31 NJ | 2.1 J | 1.2 | 2.2 J | 1.9 | 4.8 | 4.4 J |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.13 J | 0.65 J | 0.99 | 0.64 | 0.79 | 1.5 | 2.9 | 0.12 NJ | 0.84 | 0.85 | 1.2 | 1.2 | 2.1 | 2.1 |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.17 NJ | 1 | 1.7 | 0.79 J | 1.5 | 3.8 J | 9.1 J | 0.49 | 3.1 J | 2.3 | 2.6 J | 2 J | 5.2 J | 4.1 J |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.18 U | 0.9 U | 0.58 U | 20 | 1.6 NJ | 5.2 | 8.9 U | 0.5 U | 2.6 U | 3.6 NJ | 2.5 U | 3.5 | 6.3 U | 5.9 |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.6 U | 0.54 NJ | 0.12 U | 0.29 U | 0.27 U | 0.6 U | 0.2 U | 0.12 U | 0.12 U | 1.5 NJ | 0.12 U | 0.5 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.037 U | 0.19 U | 0.22 U | 0.2 J | 0.2 J | 0.037 U | 0.19 U | 0.037 U | 0.34 J | 0.26 J | 0.19 | 0.38 NJ | 0.4 J | 0.3 J |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.49 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.49 U | 0.097 U | 0.19 U | 0.097 U | 0.097 U | 0.097 U | 0.22 | 0.2 |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.16 U | 0.4 J | 0.36 J | 0.068 U | 0.78 NJ | 1.8 NJ | 0.085 U | 0.33 J | 0.031 U | 0.32 | 0.24 U | 0.47 U | 1.3 NJ |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.7 U | 0.35 U | 0.14 U | 0.14 U | 0.2 U | 1.6 U | 0.19 U | 0.14 U | 0.14 U | 0.77 NJ | 0.89 U | 0.77 U | 1.4 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.16 U | 0.031 U | 0.11 J | 0.072 J | 0.065 J | 0.16 U | 0.031 U | 0.25 J | 0.18 U | 0.17 J | 0.058 NJ | 0.17 U | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.087 U | 0.44 U | 0.53 U | 0.54 U | 0.37 U | 2.4 U | 5.5 U | 0.21 U | 1.5 U | 0.88 U | 1.5 U | 1.4 U | 3.2 U | 2.6 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.55 U | 0.12 U | 0.2 J | 0.11 U | 0.3 | 0.55 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.43 NJ |
| Dieldrin | 60-57-1 | ug/kg | 0.03 U | 0.15 U | 0.25 J | 0.23 | 0.12 U | 0.26 U | 0.85 U | 0.11 J | 0.19 U | 0.27 U | 0.18 U | 0.16 U | 0.43 U | 0.37 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.29 U | 0.47 U | 0.17 U | 0.18 U | 0.058 U | 0.29 U | 0.1 U | 0.19 U | 0.18 U | 0.17 U | 0.19 J | 0.23 U | 0.23 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.36 U | 0.071 U | 0.14 U | 0.071 U | 0.16 U | 0.85 U | 0.089 U | 0.19 U | 0.071 U | 0.17 U | 0.071 U | 0.45 U | 0.39 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 0.22 U | 0.25 J | 0.042 U | 0.042 U | 0.042 U | 0.21 U | 0.081 U | 0.4 U | 0.042 U | 0.44 U | 0.16 U | 0.18 U | 0.62 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.029 U | 0.15 U | 0.24 U | 0.52 U | 0.31 U | 0.56 U | 1.4 U | 0.049 U | 0.47 U | 0.32 U | 0.97 U | 0.29 U | 0.77 U | 0.72 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 0.31 U | 0.2 U | 0.062 U | 0.062 U | 0.16 U | 0.85 U | 0.18 U | 0.19 U | 0.18 U | 0.17 U | 0.24 U | 1.2 U | 0.7 U |
| Heptachlor | 76-44-8 | ug/kg | 0.15 U | 0.38 U | 0.076 U | 0.15 | 0.076 U | 0.47 U | 0.38 U | 0.17 U | 0.3 U | 0.076 U | 0.42 U | 0.076 U | 0.55 U | 0.46 |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.22 U | 0.6 U | 0.37 U | 0.14 U | 0.37 J | 1.8 NJ | 1.1 U | 0.097 U | 0.29 U | 0.28 NJ | 0.3 U | 0.3 U | 0.71 U | 0.55 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.075 U | 0.38 U | 0.94 U | 0.38 U | 0.46 U | 0.57 U | 0.85 U | 0.15 J | 0.25 U | 0.27 U | 0.32 U | 0.3 U | 1.3 U | 0.075 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.6 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.6 U | 0.12 U | 0.12 J | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.23 |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 U | 0.31 U | 1.3 U | 0.14 U | 0.061 U | 0.13 U | 0.58 U | 0.061 U | 0.092 NJ | 0.097 NJ | 0.17 U | 0.11 U | 0.21 U | 0.3 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.24 UT | 0.36 JT | 0.65 JT | 0.83 JT | 0.45 JT | 2 JT | 5.5 UT | 0.21 UT | 1.5 JT | 0.97 JT | 0.17 JT | 1.4 JT | 3.2 UT | 2.4 JT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C757-E | LW3-C760-B | LW3-C760-C | LW3-C760-D | LW3-C762-B | LW3-C762-C | LW3-C762-D | LW3-C762-E | LW3-C764-B1 | LW3-C764-B2 | LW3-C764-C1 | LW3-C764-C2 | LW3-C764-D1 | LW3-C764-D2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 295 - 328 | 30 - 85 | 85 - 185 | 185 - 206 | 30 - 101 | 101 - 144 | 144 - 275 | 275 - 302 | 30 - 129 | 30 - 92 | 129 - 216 | 92 - 150 | 216 - 306 | 150 - 236 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.058 UT | 0.29 UT | 0.4 JT | 0.56 JT | 0.2 JT | 0.78 JT | 1.8 JT | 0.1 UT | 0.67 JT | 0.26 JT | 0.51 T | 0.57 JT | 0.4 JT | 1.6 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.13 JT | 0.65 JT | 0.99 T | 0.64 T | 0.98 JT | 1.5 T | 2.9 T | 0.12 JT | 2.6 JT | 2.1 JT | 1.2 T | 3.6 JT | 2.1 T | 2.1 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 0.52 JT | 2.5 JT | 3.4 JT | 22 JT | 4.1 JT | 13 JT | 23 JT | 0.92 JT | 7.8 JT | 9.2 JT | 6 JT | 11 JT | 12 JT | 17 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.17 JT | 1 T | 1.7 T | 0.79 JT | 1.5 T | 3.8 JT | 9.1 JT | 0.49 T | 3.1 JT | 2.3 T | 2.6 JT | 2 JT | 5.2 JT | 4.1 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.22 JT | 0.87 JT | 0.71 JT | 21 JT | 1.6 JT | 7.6 JT | 11 JT | 0.31 JT | 2.1 JT | 4.8 JT | 2.2 JT | 5.4 T | 4.8 T | 10 JT |
| Toxaphene | 8001-35-2 | ug/kg | 3.4 U | 20 U | 31 U | 16 U | 16 U | 60 U | 120 U | 7.9 U | 31 U | 22 U | 30 U | 26 U | 60 U | 45 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.24 U | 0.36 J | 0.46 J | 0.54 J | 0.38 J | 1.9 J | 0.85 U | 0.075 U | 1.2 | 0.73 | 0.27 U | 1.3 | 0.24 U | 2.2 J |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.15 U | 0.17 U | 0.19 J | 0.18 J | 0.14 U | 0.034 U | 0.17 U | 0.093 U | 0.18 U | 0.14 J | 0.15 U | 0.14 U | 0.17 U | 0.17 J |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 3.4 J | 74 J | 92.5 JT | 30 J | 48 J | 130 J | 260 J | 33 J | 270 J | 260 J | 140 J | 100 J | 210 J | 160 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 2.6 J | 46 J | 69 JT | 22 J | 39 J | 110 J | 250 J | 19 J | 230 J | 220 J | 110 J | 80 J | 180 J | 140 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 35 U | 300 J | 700 JT | 230 J | 300 J | 400 J | 750 J | 220 J | 840 J | 840 J | 440 J | 360 J | 690 J | 550 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 17 U | 140 J | 305 JT | 100 J | 170 J | 300 J | 620 J | 88 J | 590 J | 600 J | 270 J | 230 J | 460 J | 350 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 3.4 JA | 374 JA | 793 JA | 260 JA | 348 JA | 530 JA | 1010 JA | 253 JA | 1110 JA | 1100 JA | 580 JA | 460 JA | 900 JA | 710 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 2.6 JA | 186 JA | 374 JA | 122 JA | 209 JA | 410 JA | 870 JA | 107 JA | 820 JA | 820 JA | 380 JA | 310 JA | 640 JA | 490 JA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.29 U | 0.33 U | 0.4 U | 0.28 U | 0.37 U | 0.44 U | 0.36 U | 0.33 U | 0.38 U | 0.35 U | 0.37 U | 0.39 U | 1.4 U | 1.1 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.24 U | 0.27 U | 0.32 U | 1.5 U | 0.3 U | 1.4 U | 1.7 U | 0.27 U | 0.31 U | 0.29 U | 0.29 U | 1.1 U | 3 NJ | 1.7 J |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 6.9 U | 7.8 U | 3.6 U | 6.5 U | 8.7 U | 2.7 U | 4.4 U | 3.5 U | 4.1 U | 3.7 U | 5.3 U | 3.6 U | 8.2 J | 5.3 J |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.16 U | 0.21 U | 0.21 U | 0.18 U | 0.2 U | 0.24 NJ | 0.33 U | 0.21 U | 0.25 U | 0.19 U | 0.24 U | 0.19 U | 0.91 J | 0.64 J |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 5 U | 1 U | 5 U | 5 U | 2 U | 2 U | 2 U | 5 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | R | R | R | R | R | R | R | R | R | R | 11 U | R | 28 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 17 U | 17 U | 17 U | 17 U | 34 U | 85 U | 17 U | 85 U | 85 U | 34 U | 34 U | 34 U | 85 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 2 U | 2 U | 2 U | 2 U | 4 U | 10 U | 2 U | 10 U | 10 U | 4 U | 4 U | 4 U | 10 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 7.5 U | 1.5 U | 7.5 U | 7.5 U | 3 U | 3 U | 3 U | 7.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 7.5 U | 1.5 U | 7.5 U | 7.5 U | 3 U | 3 U | 3 U | 7.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 7 U | 1.4 U | 7 U | 7 U | 2.8 U | 2.8 U | 2.8 U | 7 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 7 U | 1.4 U | 7 U | 7 U | 2.8 U | 2.8 U | 2.8 U | 7 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 1.5 U | 13 | 1.5 U | 1.5 U | 1.5 U | 15 J | 37 J | 1.5 U | 24 J | 17 J | 23 | 13 J | 260 | 160 |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 18 U | 18 U | 18 U | 18 U | 36 U | 90 U | 18 U | 90 U | 90 U | 36 U | 36 U | 36 U | 90 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.23 U | 1.1 J | 12 | 2.3 J | 0.67 J | 1.6 J | 3.8 J | 0.25 U | 5.8 J | 8.1 U | 1.9 J | 3.9 U | 15 NJ | 8.4 U |
| Phenol | 108-95-2 | ug/kg | 2 U | 13 U | 13 U | 18 U | 2 U | 13 U | 10 U | 2 U | 10 U | 22 U | 4 U | 4 U | 41 U | 21 J |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 7 U | 740 | 740 J | 23 | 50 | 150 | 130 | 13 J | 140 | 120 | 71 | 220 | 170 | 120 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 6.4 U | 16 U | 3.2 U | 16 U | 16 U | 9.6 J | 6.4 U | 21 | 16 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 10 | 8.8 | 19 | 7.9 U | 14 | 16 U | 40 U | 18 | 40 U | 40 U | 16 J | 16 U | 16 U | 40 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 1.4 U | 1.5 J | 2.9 J | 4.7 J | 2 J | 2.6 U | 6.5 U | 2.1 J | 6.5 U | 6.5 U | 3.4 U | 2.6 U | 5.3 U | 6.5 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 1 U | 1 U | 6.3 J | 1 U | 2 U | 5 U | 1 U | 5 U | 5 U | 2 U | 2 U | 2 U | 5 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 3.4 U | 8.5 U | 1.7 U | 8.5 U | 8.5 U | 3.4 U | 3.4 U | 3.4 U | 8.5 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 2.6 U | 4.9 J | 2.6 U | 2.6 U | 5.2 U | 13 U | 2.6 U | 13 U | 13 U | 5.2 U | 5.2 U | 5.2 U | 13 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 5.8 U | 15 U | 2.9 U | 15 U | 15 U | 5.8 U | 5.8 U | 5.8 U | 15 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 15 U | 3 U | 15 U | 15 U | 6 U | 6 U | 6 U | 15 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 5.9 J | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 11 U | 15 U | 2.9 U | 15 U | 15 U | 5.8 U | 5.8 U | 8.9 J | 15 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 7.5 U | 1.5 U | 7.5 U | 7.5 U | 3 U | 3 U | 3 U | 7.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 2 U | 2 U | 2 U | 2 U | 4 U | 10 U | 2 U | 10 U | 10 U | 4 U | 4 U | 4 U | 10 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 8 U | 1.6 U | 8 U | 8 U | 3.2 U | 3.2 U | 3.2 U | 8 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 6.4 U | 16 U | 3.2 U | 16 U | 16 U | 6.4 U | 6.4 U | 6.4 U | 16 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 3.7 U | R | 3.7 U | 3.7 U | 7.4 U | 19 U | 3.7 U | 19 U | 19 U | 7.4 U | 7.4 U | 7.4 U | 19 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 2.5 U | R | 2.5 U | 2.5 U | 5 U | 13 U | 2.5 U | 13 U | 13 U | 5 U | 5 U | 5 U | 13 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 8 U | 1.6 U | 8 U | 8 U | 3.2 U | 3.2 U | 3.2 U | 8 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 1.9 U | R | 1.9 U | 1.9 U | 3.8 U | 9.5 U | 1.9 U | 9.5 U | 9.5 U | 7.1 J | 6.7 J | 3.8 U | 9.5 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 2.8 U | 7 U | 1.4 U | 7 U | 7 U | 2.8 U | 2.8 U | 2.8 U | 7 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 1.8 U | R | 1.8 U | 1.8 U | 3.6 U | 9 U | 1.8 U | 9 U | 9 U | 3.6 U | 12 J | 3.6 U | 9 U |
| Aniline | 62-53-3 | ug/kg | R | R | R | R | R | R | R | R | R | 7.5 U | R | 3 U | 3 U | 7.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 1.1 U | 1.1 UJ | 1.1 U | 1.1 U | 2.2 U | 5.5 U | 1.1 U | 5.5 U | 5.5 U | 2.2 U | 2.2 U | 2.2 U | 5.5 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 U | 96 U | 120 J | 96 U | 100 J | 200 U | 480 U | 96 U | 480 U | 480 U | 200 U | R | 220 J | R |
| Benzyl alcohol | 100-51-6 | ug/kg | 2.4 J | 3.9 J | 16 | 2.1 U | 2.1 U | 4.2 U | 11 U | 2.1 U | 11 U | 11 U | 4.2 U | 4.2 U | 11 J | 11 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 3 U | 7.5 U | 1.5 U | 7.5 U | 7.5 U | 3 U | 3 U | 3 U | 7.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 3.8 U | 9.5 U | 1.9 U | 9.5 U | 9.5 U | 3.8 U | 3.8 U | 3.8 U | 9.5 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 5.2 U | 13 U | 2.6 U | 13 U | 13 UJ | 5.2 U | 5.2 UJ | 5.2 U | 13 UJ |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.4 J | 2 J | 2.6 U | 6.5 U | 1.3 U | 6.5 U | 6.5 U | 5.5 J | 2.6 U | 4.3 J | 6.5 U |
| Dibenzofuran | 132-64-9 | ug/kg | 0.59 U | 0.59 U | 0.99 J | 0.9 J | 0.68 J | 4.2 | 9.2 | 0.59 U | 4.1 | 4.1 | 2.5 | 1.3 J | 7.1 | 6.3 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 U | 0.34 U | 0.068 U | 0.14 U | 1.2 U | 0.15 U | 0.34 U | 0.068 U | 0.18 J | 0.068 U | 0.14 J | 0.068 U | 0.49 U | 0.29 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C757-E | LW3-C760-B | LW3-C760-C | LW3-C760-D | LW3-C762-B | LW3-C762-C | LW3-C762-D | LW3-C762-E | LW3-C764-B1 | LW3-C764-B2 | LW3-C764-C1 | LW3-C764-C2 | LW3-C764-D1 | LW3-C764-D2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 295 - 328 | 30 - 85 | 85 - 185 | 185 - 206 | 30 - 101 | 101 - 144 | 144 - 275 | 275 - 302 | 30 - 129 | 30 - 92 | 129 - 216 | 92 - 150 | 216 - 306 | 150 - 236 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.7 U | 0.29 J | 0.14 U | 0.14 U | 0.14 U | 0.7 U | 0.24 U | 0.27 U | 0.27 J | 0.15 U | 0.52 U | 0.49 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 29 U | 29 U | 29 U | 29 U | 58 U | 150 U | 29 U | 150 U | 150 U | 58 U | 58 U | 58 U | 150 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.8 U | 0.34 U | 0.16 U | 0.33 U | 0.21 U | 0.8 U | 0.24 U | 0.34 U | 0.16 U | 0.16 U | 6.2 U | 0.2 U | 0.17 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 5 U | 1 U | 5 U | 5 U | 2 U | 2 U | 2 U | 5 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 4.4 U | 11 U | 2.2 U | 11 U | 11 U | 4.4 U | 4.4 U | 4.4 U | 11 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 6.1 U | 6.1 UJ | 6.1 U | 6.1 U | 13 U | 31 U | 6.1 U | 31 U | 31 U | 13 U | 13 U | 13 U | 31 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 3.2 U | 8 U | 1.6 U | 8 U | 8 U | 3.2 U | 3.2 U | 6.1 J | 8 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 4.8 U | 12 U | 2.4 U | 12 U | 12 U | 4.8 U | 4.8 U | 4.8 U | 12 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C773-B1 | LW3-C773-B2 | LW3-C773-C1 | LW3-C773-C2 | LW3-C773-D1 | LW3-C773-D2 | LW3-C777-B | LW3-C777-C | LW3-C777-D | LW3-C778-B | LW3-C778-C | LW3-C779-B | LW3-C779-C | LW3-C779-E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 30 - 103 | 152 - 285 | 103 - 223 | 285 - 319 | 223 - 348 | 30 - 122 | 122 - 215 | 215 - 252 | 30 - 118 | 118 - 241 | 30 - 97 | 97 - 154 | 212 - 293 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.3 U | 1.3 UT | 19 U | 4.6 JT | 25 | 12 JT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 15 | 3.5 T | 38 J | 15 T | 73 J | 50 JT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 62 U | 1.3 U | 1 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 17 J | 6.5 JT | 42 | 23 JT | 50 J | 49 T | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 58 NJ | 1.3 U | 1 U |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclors | 12767-79-2 | ug/kg | 32 JT | 10 JT | 80 JT | 42.6 JT | 148 JT | 111 JT | 1.3 UT | 1.3 UT | 1.3 UT | 1.3 UT | 1.3 UT | 58 JT | 1.3 UT | 1 UT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.68 | 1.65 T | 1.65 | 1.6 T | 1.69 | 1.66 T | 1.96 | 2.12 | 2.03 | 1.91 | 2.49 | 2.04 | 1.94 T | 2 |
| Total organic carbon | TOC | percent | 1.96 | 1.13 T | 1.63 | 1.99 T | 1.53 | 1.93 T | 0.03 J | 0.02 J | 0.02 U | 0.03 J | 0.04 J | 0.31 | 1.43 | 0.19 |
| Total solids | TSO | percent | 55.7 | 58.8 T | 61.4 | 54.2 T | 63.7 T | 59.7 T | 79 | 80.9 | 85 | 84.3 | 89.2 | 75 | 77 | 80.3 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | 0.00026 JA | 0.157 UA | 0.158 UA | 0.142 UA | 0.182 UA | 0.185 JA | 0.0004 JA | 0.191 UA |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.19 | 0.045 T | 0.45 | 0 T | 0.31 | 0.32 T | 11.3 | 4.83 | 27.6 | 26.3 | 21.6 | 1.13 | 24.9 | 17.6 |
| Fine gravel | GS_FG | percent | 2 | 0.33 T | 1.97 | 1.36 T | 3.97 | 1.53 T | 6.62 | 4.48 | 12.4 | 8.83 | 11.2 | 2.97 | 6.59 | 8.4 |
| Very coarse sand | GS_VCS | percent | 1.7 | 0.51 T | 2.39 | 1.87 T | 2.4 | 1.54 T | 8.3 | 5.64 | 16.6 | 7.73 | 11.4 | 4.68 | 3.97 | 5.77 |
| Coarse sand | GS_CS | percent | 1.4 | 0.61 T | 1.6 | 1.53 T | 3.45 | 2.43 T | 41.1 | 43.2 | 34.1 | 29.2 | 27 | 10.4 | 6.64 | 10.5 |
| Medium sand | GS_MS | percent | 2.11 | 2.55 T | 3.98 | 2.38 T | 10.3 | 6.33 T | 31.1 | 36 | 10.6 | 25 | 25 | 56 | 38.5 | 27.6 |
| Fine sand | GS_FS | percent | 11.6 | 24.1 T | 12.4 | 10.4 T | 10.9 | 7.94 T | 5.52 | 4.68 | 2.2 | 3.04 | 4.38 | 23.2 | 15.7 | 17.7 |
| Very fine sand | GS_VFS | percent | 19 | 27.6 T | 19 | 21.4 T | 17.1 | 16.7 T | 0.24 | 0.3 | 0.14 | 0.15 | 0.29 | 1.19 | 0.84 | 2.65 |
| Fines | GS_FINES | percent | 61.4 T | 43.5 T | 60.9 T | 62.8 T | 52.8 T | 66.1 T | 0.35 T | 0.66 T | 0.47 T | 0.39 T | 0.94 T | 2.31 T | 1.19 T | 9.12 T |
| Coarse silt | GS_CSILT | percent | 26.8 | 15.9 T | 26.9 | 27.7 T | 22.5 | 33 T | 0.08 | 0.12 | 0.1 | 0.08 | 0.3 | 0.56 | 0.21 | 2.56 |
| Medium silt | GS_MSILT | percent | 10.8 | 9.9 T | 12.7 | 11.5 T | 10.6 | 11.4 T | 0 | 0.04 | 0 | 0.05 | 0.17 | 0.55 | 0.21 | 2.26 |
| Fine silt | GS_FSILT | percent | 8.84 | 6.28 T | 8.35 | 8.63 T | 8.05 | 8.05 T | 0.02 | 0.23 | 0.12 | 0.08 | 0.1 | 0.38 | 0.31 | 1.76 |
| Very fine silt | GS_VFSILT | percent | 5.96 | 4.38 T | 4.85 | 6.15 T | 4.99 | 5.57 T | 0.1 | 0 | 0.09 | 0.01 | 0.09 | 0.31 | 0.23 | 1.3 |
| 8-9 Phi clay | GS_CCLAY | percent | 3.4 | 3.22 T | 2.96 | 3.24 T | 2.08 | 2.68 T | 0.02 | 0.07 | 0 | 0 | 0.03 | 0.09 | 0 | 0.35 |
| >9 Phi clay | GS_MFCLAY | percent | 5.58 | 3.86 T | 5.16 | 5.59 T | 4.61 | 5.4 T | 0.13 | 0.2 | 0.16 | 0.17 | 0.25 | 0.42 | 0.23 | 0.89 |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 30700 | 29700 T | 27400 | 33100 T | 31000 | 30100 T | 9800 | 9230 | 6820 | 6660 | 8570 | 12400 | 10000 | 11200 T |
| Antimony | 7440-36-0 | mg/kg | 0.32 J | 0.25 JT | 0.5 J | 0.445 JT | 0.44 J | 0.6 JT | 0.17 J | 0.18 J | 0.19 J | 0.26 J | 0.23 J | 0.17 J | 0.14 J | 0.095 JT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C773-B1 | LW3-C773-B2 | LW3-C773-C1 | LW3-C773-C2 | LW3-C773-D1 | LW3-C773-D2 | LW3-C777-B | LW3-C777-C | LW3-C777-D | LW3-C778-B | LW3-C778-C | LW3-C779-B | LW3-C779-C | LW3-C779-E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 30 - 103 | 152 - 285 | 103 - 223 | 285 - 319 | 223 - 348 | 30 - 122 | 122 - 215 | 215 - 252 | 30 - 118 | 118 - 241 | 30 - 97 | 97 - 154 | 212 - 293 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 3.87 | 3.29 T | 3.47 | 3.95 T | 3.79 | 3.96 T | 0.92 | 1.05 | 0.99 | 1 | 1.27 | 1.16 | 1.25 | 1.38 T |
| Cadmium | 7440-43-9 | mg/kg | 0.255 | 0.172 T | 0.335 | 0.306 T | 0.316 | 0.449 T | 0.035 | 0.034 | 0.016 J | 0.03 | 0.041 | 0.047 | 0.071 | 0.0545 T |
| Chromium | 7440-47-3 | mg/kg | 30.1 | 27.2 T | 26 | 31.5 T | 25.7 | 31.9 T | 9.95 | 9.58 | 7.62 | 7.77 | 10.7 | 10.8 | 10.4 | 12.7 T |
| Copper | 7440-50-8 | mg/kg | 42.5 | 35.6 T | 42.5 | 43.5 T | 43.6 | 46.8 T | 12.9 | 12.9 | 10.3 | 10.3 | 12.2 | 13.8 | 14 | 15.1 T |
| Lead | 7439-92-1 | mg/kg | 34.5 | 17.7 T | 125 | 53 T | 88.5 | 132 T | 2.2 | 2.01 | 1.54 | 1.83 | 2.07 | 2.6 | 2.21 | 2.41 T |
| Mercury | 7439-97-6 | mg/kg | 0.087 | 0.056 T | 0.089 | 0.0735 T | 0.128 | 0.0798 T | 0.007 J | 0.012 J | 0.005 UJ | 0.01 J | 0.01 J | 0.024 J | 0.024 J | 0.074 J |
| Nickel | 7440-02-0 | mg/kg | 27.5 | 26 T | 25 | 27.2 T | 24.3 | 27.4 T | 13.7 | 12.3 | 10.4 | 9.64 | 12.3 | 14.5 | 15.5 | 16.8 T |
| Silver | 7440-22-4 | mg/kg | 0.492 | 0.28 T | 0.728 | 0.8 T | 0.601 | 0.769 T | 0.072 | 0.083 | 0.062 | 0.085 | 0.083 | 0.128 | 0.076 | 0.0505 T |
| Zinc | 7440-66-6 | mg/kg | 125 | 101 T | 154 | 136 T | 278 | 158 T | 47.2 | 45.5 | 41.7 | 41 | 44.4 | 57.1 | 44.8 | 44.6 T |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 2.9 | 1.3 JT | 16 | 8.1 T | 21 | 11 T | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.33 J | 0.31 U |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 4.7 | 2.1 JT | 25 | 13 T | 40 | 19 T | 0.39 U | 0.39 U | 0.39 U | 0.39 U | 0.39 U | 0.47 J | 0.41 J | 0.39 U |
| Acenaphthene | 83-32-9 | ug/kg | 6.4 | 4.4 T | 21 | 23 T | 110 | 15 T | 0.23 U | 0.23 U | 0.23 U | 0.23 U | 0.23 U | 0.23 U | 0.36 J | 0.23 U |
| Acenaphthylene | 208-96-8 | ug/kg | 4.5 | 1.7 JT | 7.5 | 11 T | 8.6 | 6.8 T | 0.24 U | 0.24 U | 0.24 U | 0.24 U | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| Anthracene | 120-12-7 | ug/kg | 7.5 | 6.4 T | 21 | 19 T | 120 | 18 T | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 24 | 30 T | 40 | 47 T | 260 | 46 T | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 24 | 37 T | 45 | 51 T | 160 | 48 T | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.29 J | 0.14 U | 0.14 U |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 32 | 46 T | 62 | 64 T | 230 | 65 T | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.48 J | 0.25 U | 0.25 U |
| Benzo(e)pyrene | 192-97-2 | ug/kg | | | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 21 | 30 T | 38 | 46 T | 80 | 36 T | 0.64 U | 0.64 U | 0.64 U | 0.64 U | 0.64 U | 0.64 U | 0.64 U | 0.64 U |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 10 | 15 T | 18 | 22 T | 69 | 17 T | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| Chrysene | 218-01-9 | ug/kg | 32 | 34 T | 60 | 59 T | 270 | 55 T | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.5 J | 0.25 U | 0.25 U |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 3.4 | 5.4 T | 6.2 | 7 T | 21 | 7.4 T | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| Dibenzothiophene | 132-65-0 | ug/kg | 3.5 | 1.9 JT | 16 | 13 T | 37 | 9.2 T | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| Fluoranthene | 206-44-0 | ug/kg | 59 | 53 T | 150 | 150 T | 1000 | 130 T | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 0.61 U | 1.1 J | 0.61 U | 0.61 U |
| Fluorene | 86-73-7 | ug/kg | 6.8 | 4.2 T | 28 | 21 T | 110 | 18 T | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 20 | 31 T | 38 | 42 T | 96 | 34 T | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.24 U | 0.16 U | 0.16 U |
| Naphthalene | 91-20-3 | ug/kg | 14 | 5.3 T | 41 | 33 T | 53 | 27 T | 0.69 U | 0.59 U | 0.45 U | 0.41 U | 0.5 U | 1.1 U | 1.3 U | 0.85 U |
| Perylene | 198-55-0 | ug/kg | | | | | | | | | | | | | | |
| Phenanthrene | 85-01-8 | ug/kg | 45 | 33 T | 170 | 140 T | 580 | 110 T | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 0.75 U | 1.3 J | 0.75 U | 0.75 U |
| Pyrene | 129-00-0 | ug/kg | 61 | 54 T | 140 | 140 T | 870 | 130 T | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 1.4 J | 0.37 U | 0.37 U |
| High Molecular Weight PAH | HPAH | ug/kg | 290 T | 340 T | 600 T | 630 T | 3100 T | 570 T | 0.64 UT | 0.64 UT | 0.64 UT | 0.64 UT | 0.64 UT | 3.8 JT | 0.64 UT | 0.64 UT |
| Low Molecular Weight PAH | LPAH | ug/kg | 89 T | 57 JT | 310 T | 260 T | 1000 T | 210 T | 0.75 UT | 0.75 UT | 0.75 UT | 0.75 UT | 0.75 UT | 1.8 JT | 0.77 JT | 0.85 UT |
| Total PAHs | 130498-29-2 | ug/kg | 380 T | 390 JT | 910 T | 890 T | 4100 T | 780 T | 0.75 UT | 0.75 UT | 0.75 UT | 0.75 UT | 0.75 UT | 5.5 JT | 0.77 JT | 0.85 UT |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | | | | | | | | | | | | | | |
| C1-Chrysene | C1_218-01-9 | ug/kg | | | | | | | | | | | | | | |
| C1-Fluorene | C1_86-73-7 | ug/kg | | | | | | | | | | | | | | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | | | | | | | | | | | | | | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | | | | | | | | | | | | | | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | | | | | | | | | | | | | | |
| C2-Chrysene | C2_218-01-9 | ug/kg | | | | | | | | | | | | | | |
| C2-Fluorene | C2_86-73-7 | ug/kg | | | | | | | | | | | | | | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | | | | | | | | | | | | | | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | | | | | | | | | | | | | | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | | | | | | | | | | | | | | |
| C3-Chrysene | C3_218-01-9 | ug/kg | | | | | | | | | | | | | | |
| C3-Fluorene | C3_86-73-7 | ug/kg | | | | | | | | | | | | | | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | | | | | | | | | | | | | | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | | | | | | | | | | | | | | |
| C4-Chrysene | C4_218-01-9 | ug/kg | | | | | | | | | | | | | | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | | | | | | | | | | | | | | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | | | | | | | | | | | | | | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | | | | | | | | | | | | | | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | | | | | | | | | | | | | | |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.28 | 4.98 U | 4.84 U |
| PCB002 | 2051-61-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB003 | 2051-62-9 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | 9.99 U | 10.1 U | 10.2 U | 9.85 U | 10 UT | 10.1 U | 9.96 U | 9.67 U |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | 9.99 U | 10.1 U | 10.2 U | 9.85 U | 10 UT | 13.8 | 9.96 U | 9.67 U |
| PCB006 | 25569-80-6 | pg/g | | | | | | | 9.99 U | 10.1 U | 10.2 U | 9.85 U | 10 UT | 10.1 U | 9.96 U | 9.67 U |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | 9.99 U | 10.1 U | 10.2 U | 9.85 U | 10 UT | 10.1 U | 9.96 U | 9.67 U |
| PCB011 | 2050-67-1 | pg/g | | | | | | | 9.99 U | 10.1 U | 10.2 U | 9.85 U | 10 UT | 10.1 U | 9.96 U | 9.67 U |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | 9.99 U | 10.1 U | 10.2 U | 9.85 U | 10 UT | 10.1 U | 9.96 U | 9.67 U |
| PCB014 | 34883-41-5 | pg/g | | | | | | | 9.99 U | 10.1 U | 10.2 U | 9.85 U | 10 UT | 10.1 U | 9.96 U | 9.67 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C773-B1 | LW3-C773-B2 | LW3-C773-C1 | LW3-C773-C2 | LW3-C773-D1 | LW3-C773-D2 | LW3-C777-B | LW3-C777-C | LW3-C777-D | LW3-C778-B | LW3-C778-C | LW3-C779-B | LW3-C779-C | LW3-C779-E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 30 - 103 | 152 - 285 | 103 - 223 | 285 - 319 | 223 - 348 | 30 - 122 | 122 - 215 | 215 - 252 | 30 - 118 | 118 - 241 | 30 - 97 | 97 - 154 | 212 - 293 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | 9.99 U | 10.1 U | 10.2 U | 9.85 U | 10 UT | 10.1 U | 9.96 U | 9.67 U |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 189 | 5.06 | 4.84 U |
| PCB017 | 37680-66-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 77.8 | 4.98 U | 4.84 U |
| PCB018 | 37680-65-2 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 67.4 | 4.98 U | 4.84 U |
| PCB019 | 38444-73-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 9.16 | 4.98 U | 4.84 U |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 102 | 4.98 U | 4.84 U |
| PCB022 | 38444-85-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 31.2 | 4.98 U | 4.84 U |
| PCB023 | 55720-44-0 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 51 | 4.98 U | 4.84 U |
| PCB025 | 55712-37-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 89.4 | 4.98 U | 4.84 U |
| PCB026 | 38444-81-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 196 | 4.98 U | 4.84 U |
| PCB028 | 7012-37-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 36.5 | 4.98 U | 4.84 U |
| PCB029 | 15862-07-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB030 | 35693-92-6 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB031 | 16606-02-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 74.4 | 4.98 U | 4.84 U |
| PCB034 | 37680-68-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB035 | 37680-69-6 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB036 | 38444-87-0 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB037 | 38444-90-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB038 | 53555-66-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 35.2 | 4.98 U | 4.84 U |
| PCB039 | 38444-88-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB040 | 38444-93-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.29 | 4.98 U | 4.84 U |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 975 | 17.1 | 4.84 U |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 143 | 4.98 U | 4.84 U |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | 5.23 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5490 | 71.8 | 4.84 U |
| PCB044 | 41464-39-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 181 | 4.98 U | 4.84 U |
| PCB045 | 70362-45-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 8.47 | 4.98 U | 4.84 U |
| PCB046 | 41464-47-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 99.1 | 4.98 U | 4.84 U |
| PCB047 | 2437-79-8 | pg/g | | | | | | | 8.64 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1270 | 23.5 | 4.84 U |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 42 | 4.98 U | 4.84 U |
| PCB050 | 62796-65-0 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 10.1 | 4.98 U | 4.84 U |
| PCB051 | 68194-04-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 773 | 12.3 | 4.84 U |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | 5.56 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 6680 | 79.9 | 4.84 U |
| PCB053 | 41464-41-9 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 2760 | 30.4 | 4.84 U |
| PCB054 | 15968-05-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 78.7 | 4.98 U | 4.84 U |
| PCB055 | 74338-24-2 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 71.3 | 4.98 U | 4.84 U |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 9.77 | 4.98 U | 4.84 U |
| PCB057 | 70424-67-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 55.5 | 4.98 U | 4.84 U |
| PCB058 | 41464-49-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 208 | 6.22 | 4.84 U |
| PCB062 | 54230-22-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB063 | 74472-34-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB065 | 33284-54-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 121 | 4.98 U | 4.84 U |
| PCB067 | 73575-53-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 9.44 | 4.98 U | 4.84 U |
| PCB068 | 73575-52-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 28.9 | 4.98 U | 4.84 U |
| PCB073 | 74338-23-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB074 | 32690-93-0 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 13 | 4.98 U | 4.84 U |
| PCB077 | 32598-13-3 | pg/g | | | | | | | 1.01 U | 0.875 U | 1.12 U | 1.57 U | 0.977 UT | 3.52 U | 0.839 U | 0.954 U |
| PCB078 | 70362-49-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB079 | 41464-48-6 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 63.4 | 4.98 U | 4.84 U |
| PCB080 | 33284-52-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB081 | 70362-50-4 | pg/g | | | | | | | 0.35 U | 0.396 U | 0.42 U | 0.609 U | 0.459 UT | 1.87 U | 0.779 U | 0.48 U |
| PCB082 | 52663-62-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 7.67 | 4.98 U | 4.84 U |
| PCB083 | 60145-20-2 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | 5.95 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1090 | 18.3 | 4.84 U |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 15 | 4.98 U | 4.84 U |
| PCB086 | 55312-69-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 74.1 | 4.98 U | 4.84 U |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | 6.84 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 2010 | 31.4 | 4.84 U |
| PCB089 | 73575-57-2 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | 15.4 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 3720 | 68.2 | 4.84 U |
| PCB093 | 73575-56-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB094 | 73575-55-0 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 17.4 | 4.98 U | 4.84 U |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | 15 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 6820 | 103 | 4.84 U |
| PCB096 | 73575-54-9 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 294 | 4.98 U | 4.84 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C773-B1 | LW3-C773-B2 | LW3-C773-C1 | LW3-C773-C2 | LW3-C773-D1 | LW3-C773-D2 | LW3-C777-B | LW3-C777-C | LW3-C777-D | LW3-C778-B | LW3-C778-C | LW3-C779-B | LW3-C779-C | LW3-C779-E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 30 - 103 | 152 - 285 | 103 - 223 | 285 - 319 | 223 - 348 | 30 - 122 | 122 - 215 | 215 - 252 | 30 - 118 | 118 - 241 | 30 - 97 | 97 - 154 | 212 - 293 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 66.9 | 4.98 U | 4.84 U |
| PCB099 | 38380-01-7 | pg/g | | | | | | | 6.21 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 2100 | 38.9 | 4.84 U |
| PCB100 | 39485-83-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 462 | 7.05 | 4.84 U |
| PCB103 | 60145-21-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1340 | 17.1 | 4.84 U |
| PCB104 | 56558-16-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 55.1 | 4.98 U | 4.84 U |
| PCB105 | 32598-14-4 | pg/g | | | | | | | 1.47 U | 1.29 U | 1.4 U | 1.17 U | 1.43 UT | 51.3 | 1.62 J | 1.41 U |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | 4.46 J | 1.66 U | 1.45 U | 1.59 U | 1.97 UT | 516 | 10.5 | 1.59 U |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 123 | 4.98 U | 4.84 U |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 32.7 | 4.98 U | 4.84 U |
| PCB110 | 38380-03-9 | pg/g | | | | | | | 9.9 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1890 | 36.2 | 4.84 U |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 20.5 | 4.98 U | 4.84 U |
| PCB113 | 68194-10-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 107 | 4.98 U | 4.84 U |
| PCB114 | 74472-37-0 | pg/g | | | | | | | 1.08 U | 1.32 U | 1.38 U | 1.2 U | 1.49 UT | 1.43 J | 1.5 U | 1.52 U |
| PCB119 | 56558-17-9 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 714 | 10.4 | 4.84 U |
| PCB120 | 68194-12-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 57 | 4.98 U | 4.84 U |
| PCB121 | 56558-18-0 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 55.4 | 4.98 U | 4.84 U |
| PCB122 | 76842-07-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB123 | 65510-44-3 | pg/g | | | | | | | 1.53 U | 1.64 U | 1.44 U | 1.67 U | 1.84 UT | 2.72 U | 2.55 U | 1.51 U |
| PCB124 | 70424-70-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB126 | 57465-28-8 | pg/g | | | | | | | 1.1 U | 1.57 U | 1.58 U | 1.42 U | 1.82 UT | 1.63 J | 1.76 U | 1.91 U |
| PCB127 | 39635-33-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 77.5 | 4.98 U | 4.84 U |
| PCB129 | 55215-18-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 17.8 | 4.98 U | 4.84 U |
| PCB130 | 52663-66-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 126 | 4.98 U | 4.84 U |
| PCB131 | 61798-70-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | 6.43 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 771 | 16.3 | 4.84 U |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 357 | 7.02 | 4.84 U |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 169 | 4.98 U | 4.84 U |
| PCB135 | 52744-13-5 | pg/g | | | | | | | 5.59 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1210 | 21 | 4.84 U |
| PCB136 | 38411-22-2 | pg/g | | | | | | | 6.21 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1700 | 30.7 | 4.84 U |
| PCB137 | 35694-06-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 16.2 | 4.98 U | 4.84 U |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | 28.3 | 5.04 U | 5.09 U | 7.2 | 5.1 T | 2560 | 39.6 | 4.84 U |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | 30.1 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5730 | 99.3 | 4.84 U |
| PCB140 | 59291-64-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 263 | 4.98 U | 4.84 U |
| PCB141 | 52712-04-6 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 341 | 4.98 U | 4.84 U |
| PCB144 | 68194-14-9 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 85.7 | 4.98 U | 4.84 U |
| PCB145 | 74472-40-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | 7.71 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 2130 | 37.4 | 4.84 U |
| PCB147 | 68194-13-8 | pg/g | | | | | | | 17.7 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 305 | 4.98 U | 4.84 U |
| PCB148 | 74472-41-6 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 191 | 4.98 U | 4.84 U |
| PCB150 | 68194-08-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 286 | 4.98 U | 4.84 U |
| PCB151 | 52663-63-5 | pg/g | | | | | | | 10.2 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1500 | 19.5 | 4.84 U |
| PCB152 | 68194-09-2 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB153 | 35065-27-1 | pg/g | | | | | | | 32 | 5.04 U | 5.09 U | 5.75 UJ | 5 UT | 5580 | 94 | 4.84 U |
| PCB154 | 60145-22-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 982 | 17.1 | 4.84 U |
| PCB155 | 33979-03-2 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 14.5 | 4.98 U | 4.84 U |
| PCB156 | 38380-08-4 | pg/g | | | | | | | 1.5 J | 0.431 U | 0.558 U | 0.769 U | 0.872 UT | 98.3 | 1.34 J | 0.441 U |
| PCB157 | 69782-90-7 | pg/g | | | | | | | 0.4 U | 0.42 U | 0.555 U | 0.786 U | 0.941 UT | 6.74 | 0.728 U | 0.51 U |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 136 | 4.98 U | 4.84 U |
| PCB159 | 39635-35-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB166 | 41411-63-6 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB167 | 52663-72-6 | pg/g | | | | | | | 0.833 J | 0.464 U | 0.546 U | 0.731 U | 0.926 UT | 37.9 | 0.764 U | 0.656 U |
| PCB168 | 59291-65-5 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 35.6 | 4.98 U | 4.84 U |
| PCB169 | 32774-16-6 | pg/g | | | | | | | 0.365 U | 0.451 U | 0.659 U | 0.958 U | 0.998 UT | 1.2 U | 0.78 U | 0.677 U |
| PCB170 | 35065-30-6 | pg/g | | | | | | | 27.7 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 937 | 11.8 | 4.84 U |
| PCB171 | 52663-71-5 | pg/g | | | | | | | 6.23 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 277 | 4.98 U | 4.84 U |
| PCB172 | 52663-74-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 161 | 4.98 U | 4.84 U |
| PCB173 | 68194-16-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 21.4 | 4.98 U | 4.84 U |
| PCB174 | 38411-25-5 | pg/g | | | | | | | 16.9 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1200 | 15.9 | 4.84 U |
| PCB175 | 40186-70-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 50.3 | 4.98 U | 4.84 U |
| PCB176 | 52663-65-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 181 | 4.98 U | 4.84 U |
| PCB177 | 52663-70-4 | pg/g | | | | | | | 14.5 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1190 | 22.9 | 4.84 U |
| PCB178 | 52663-67-9 | pg/g | | | | | | | 8.74 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 580 | 9.48 | 4.84 U |
| PCB179 | 52663-64-6 | pg/g | | | | | | | 11.5 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 1010 | 15.5 | 4.84 U |
| PCB180 | 35065-29-3 | pg/g | | | | | | | 70.4 | 5.04 U | 5.09 U | 11.7 | 5 UT | 2460 | 29.7 | 4.84 U |
| PCB181 | 74472-47-2 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C773-B1 | LW3-C773-B2 | LW3-C773-C1 | LW3-C773-C2 | LW3-C773-D1 | LW3-C773-D2 | LW3-C777-B | LW3-C777-C | LW3-C777-D | LW3-C778-B | LW3-C778-C | LW3-C779-B | LW3-C779-C | LW3-C779-E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 30 - 103 | 152 - 285 | 103 - 223 | 285 - 319 | 223 - 348 | 30 - 122 | 122 - 215 | 215 - 252 | 30 - 118 | 118 - 241 | 30 - 97 | 97 - 154 | 212 - 293 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | 44 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 2720 | 42.2 | 4.84 U |
| PCB183 | 52663-69-1 | pg/g | | | | | | | 14.4 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 624 | 9.4 | 4.84 U |
| PCB184 | 74472-48-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB185 | 52712-05-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 109 | 4.98 U | 4.84 U |
| PCB186 | 74472-49-4 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB188 | 74487-85-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 39.8 | 4.98 U | 4.84 U |
| PCB189 | 39635-31-9 | pg/g | | | | | | | 1.79 J | 0.35 U | 0.307 U | 0.631 U | 0.337 UT | 34.9 | 0.552 U | 0.433 U |
| PCB190 | 41411-64-7 | pg/g | | | | | | | 8.56 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 220 | 4.98 U | 4.84 U |
| PCB191 | 74472-50-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 44.7 | 4.98 U | 4.84 U |
| PCB192 | 74472-51-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB193 | 69782-91-8 | pg/g | | | | | | | 6.91 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 200 | 4.98 U | 4.84 U |
| PCB194 | 35694-08-7 | pg/g | | | | | | | 50.3 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 655 | 9.36 | 4.84 U |
| PCB195 | 52663-78-2 | pg/g | | | | | | | 20.7 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 283 | 4.98 U | 4.84 U |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | 59 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 849 | 11.1 | 4.84 U |
| PCB197 | 33091-17-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 31.6 | 4.98 U | 4.84 U |
| PCB198 | 68194-17-2 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 36.3 | 4.98 U | 4.84 U |
| PCB199 | 52663-75-9 | pg/g | | | | | | | 44.2 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 746 | 10.2 | 4.84 U |
| PCB200 | 52663-73-7 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 91.3 | 4.98 U | 4.84 U |
| PCB201 | 40186-71-8 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 87.8 | 4.98 U | 4.84 U |
| PCB202 | 2136-99-4 | pg/g | | | | | | | 6.52 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 147 | 4.98 U | 4.84 U |
| PCB204 | 74472-52-9 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 5.07 U | 4.98 U | 4.84 U |
| PCB205 | 74472-53-0 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 35.2 | 4.98 U | 4.84 U |
| PCB206 | 40186-72-9 | pg/g | | | | | | | 12.7 | 5.04 U | 5.09 U | 4.92 U | 5 UT | 140 | 4.98 U | 4.84 U |
| PCB207 | 52663-79-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 21.4 | 4.98 U | 4.84 U |
| PCB208 | 52663-77-1 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 23.4 | 4.98 U | 4.84 U |
| PCB209 | 2051-24-3 | pg/g | | | | | | | 5 U | 5.04 U | 5.09 U | 4.92 U | 5 UT | 16.7 | 4.98 U | 4.84 U |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | 655 JT | 10.1 UT | 10.2 UT | 18.9 T | 5.1 T | 81700 JT | 1160 JT | 9.67 UT |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | 0.00026 JT | 0.157 UT | 0.158 UT | 0.142 UT | 0.182 UT | 0.185 JT | 0.0004 JT | 0.191 UT |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | 5 UT | 5.04 UT | 5.09 UT | 4.92 UT | 5 UT | 5.28 T | 4.98 UT | 4.84 UT |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | 9.99 UT | 10.1 UT | 10.2 UT | 9.85 UT | 10 UT | 13.8 T | 9.96 UT | 9.67 UT |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | 5 UT | 5.04 UT | 5.09 UT | 4.92 UT | 5 UT | 959 T | 5.06 T | 4.84 UT |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | 19.4 T | 5.04 UT | 5.09 UT | 4.92 UT | 5 UT | 19100 T | 241 T | 4.84 UT |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | 63.8 JT | 5.04 UT | 5.09 UT | 4.92 UT | 5 UT | 21600 JT | 343 JT | 4.84 UT |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | 147 JT | 5.04 UT | 5.09 UT | 7.2 T | 5.1 T | 24700 T | 383 JT | 4.84 UT |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | 232 JT | 5.04 UT | 5.09 UT | 11.7 T | 5 UT | 12100 T | 157 T | 4.84 UT |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | 181 T | 5.04 UT | 5.09 UT | 4.92 UT | 5 UT | 2960 T | 30.7 T | 4.84 UT |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | 12.7 T | 5.04 UT | 5.09 UT | 4.92 UT | 5 UT | 185 T | 4.98 UT | 4.84 UT |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.84 U | 0.58 JT | 4.6 NJ | 1.7 JT | 11 NJ | 1.4 UT | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 2 J | 0.16 U | 0.16 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.65 U | 0.19 UT | 1.4 U | 0.32 UT | 0.88 U | 0.78 UT | 0.046 U | 0.046 U | 0.046 U | 0.046 U | 0.046 U | 0.77 U | 0.079 U | 0.046 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 1 NJ | 0.58 T | 3 J | 1.3 JT | 6.7 | 3.8 JT | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.94 U | 0.061 U | 0.061 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 1.7 | 0.91 T | 5 | 1.5 T | 7.2 | 3.2 JT | 0.073 U | 0.073 U | 0.073 U | 0.073 U | 0.073 U | 0.14 U | 0.073 U | 0.073 U |
| 4,4'-DDE | 72-55-9 | ug/kg | 3.3 | 1.5 T | 5.6 J | 3.1 JT | 7.7 J | 4.6 JT | 0.027 U | 0.027 U | 0.027 U | 0.027 U | 0.027 U | 0.14 U | 0.027 U | 0.027 U |
| 4,4'-DDT | 50-29-3 | ug/kg | 3.5 J | 1.5 JT | 13 NJ | 3.1 JT | 8.2 U | 6.9 JT | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.74 U | 0.18 U | 0.18 U |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 UT | 0.29 U | 0.12 UT | 0.6 U | 0.12 UT | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.41 J | 0.3 JT | 0.25 U | 0.68 JT | 0.79 U | 0.27 JT | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.14 U | 0.037 U | 0.037 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.18 U | 0.097 UT | 0.17 U | 0.19 UT | 0.49 U | 0.097 UT | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.15 U | 0.062 UT | 1.2 J | 0.36 JT | 0.79 U | 0.32 UT | 0.031 U | 0.033 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.14 UT | 0.14 U | 0.43 T | 0.7 U | 0.16 UT | 0.23 U | 0.29 U | 0.14 U | 0.38 U | 0.14 U | 0.31 U | 0.25 U | 0.14 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.26 U | 0.17 JT | 1.4 | 0.26 UT | 0.44 NJ | 0.63 T | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.55 J | 0.034 U | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 1.2 U | 0.36 UT | 3.5 U | 1.1 UT | 0.92 U | 0.77 UT | 0.087 U | 0.087 U | 0.087 U | 0.087 U | 0.087 U | 3.4 U | 0.087 U | 0.087 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.13 U | 0.11 UT | 0.26 U | 0.11 UT | 0.55 U | 0.25 JT | 0.11 U | 0.13 U | 0.11 U | 0.11 U | 0.11 U | 0.34 U | 0.11 U | 0.11 U |
| Dieldrin | 60-57-1 | ug/kg | 0.36 U | 0.15 JT | 0.2 U | 0.48 JT | 0.79 U | 0.17 UT | 0.03 U | 0.03 U | 0.03 U | 0.03 U | 0.03 U | 0.14 U | 0.03 U | 0.03 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.36 U | 0.17 UT | 0.2 U | 0.33 UT | 0.29 U | 0.21 UT | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.071 UT | 0.26 U | 0.071 UT | 0.57 J | 0.17 UT | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.9 U | 0.071 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.18 U | 0.18 UT | 0.17 U | 0.3 UT | 0.21 U | 0.17 UT | 0.042 U | 0.048 U | 0.042 U | 0.057 U | 0.042 U | 0.34 U | 0.042 U | 0.042 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.35 U | 0.3 JT | 4.3 U | 0.33 UT | 0.87 U | 0.67 UT | 0.029 U | 0.029 U | 0.029 U | 0.029 U | 0.029 U | 0.65 U | 0.029 U | 0.029 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.18 U | 0.062 UT | 0.63 U | 0.062 UT | 0.79 U | 0.54 UT | 0.14 U | 0.062 U | 0.062 U | 0.062 U | 0.062 U | 0.062 U | 0.062 U | 0.062 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.076 UT | 0.39 U | 0.076 UT | 0.79 U | 0.17 UT | 0.076 U | 0.076 U | 0.076 U | 0.14 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.18 U | 0.16 UT | 0.49 U | 0.19 UT | 1.3 U | 0.42 UT | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.14 U | 0.14 J | 0.068 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.56 U | 0.56 UT | 1.2 U | 0.37 UT | 2.3 | 1.3 JT | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.24 U | 0.075 U | 0.075 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 UT | 0.12 U | 0.12 UT | 0.6 U | 0.12 UT | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.18 U | 0.061 UT | 0.19 J | 0.095 JT | 0.31 U | 0.16 UT | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 1.1 T | 0.74 JT | 6.2 JT | 1.3 JT | 5.6 JT | 3.5 T | 0.087 UT | 0.087 UT | 0.087 UT | 0.087 UT | 0.087 UT | 0.55 JT | 0.055 JT | 0.087 UT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C773-B1 | LW3-C773-B2 | LW3-C773-C1 | LW3-C773-C2 | LW3-C773-D1 | LW3-C773-D2 | LW3-C777-B | LW3-C777-C | LW3-C777-D | LW3-C778-B | LW3-C778-C | LW3-C779-B | LW3-C779-C | LW3-C779-E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 30 - 103 | 152 - 285 | 103 - 223 | 285 - 319 | 223 - 348 | 30 - 122 | 122 - 215 | 215 - 252 | 30 - 118 | 118 - 241 | 30 - 97 | 97 - 154 | 212 - 293 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.41 JT | 0.3 JT | 1.2 JT | 1 JT | 0.79 UT | 0.27 JT | 0.058 UT | 0.058 UT | 0.058 UT | 0.058 UT | 0.058 UT | 0.14 UT | 0.058 UT | 0.058 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 1.7 T | 1.5 JT | 9.6 JT | 3.2 JT | 18 JT | 3.2 JT | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 2 JT | 0.16 UT | 0.16 UT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 9.5 JT | 5.1 JT | 31 JT | 11 JT | 33 JT | 19 JT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 2 JT | 0.18 UT | 0.18 UT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 3.3 T | 1.5 T | 5.6 JT | 3.1 JT | 7.7 JT | 4.6 JT | 0.046 UT | 0.046 UT | 0.046 UT | 0.046 UT | 0.046 UT | 0.77 UT | 0.079 UT | 0.046 UT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 4.5 JT | 2.1 JT | 16 JT | 4.4 JT | 6.7 T | 11 JT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.94 UT | 0.18 UT | 0.18 UT |
| Toxaphene | 8001-35-2 | ug/kg | 45 U | 20 UT | 56 U | 39 UT | 140 U | 48 UT | 3.4 U | 3.4 U | 3.4 U | 3.4 U | 3.4 U | 29 U | 6.5 U | 3.4 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.85 | 0.45 JT | 3.8 | 0.99 JT | 4.9 NJ | 2.4 T | 0.027 U | 0.027 U | 0.027 U | 0.027 U | 0.027 U | 0.16 U | 0.055 J | 0.027 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.23 | 0.12 JT | 0.82 | 0.26 T | 0.23 J | 0.44 T | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.14 U | 0.055 U | 0.034 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 195 JT | 51 JT | 190 J | 245 JT | 220 J | 240 JT | 1.6 UT | 1.5 U | 1.4 U | 1.5 U | 1.4 U | 4.3 J | 3.4 J | 1.5 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 180 JT | 40.5 JT | 170 J | 220 JT | 200 J | 205 JT | 1.6 UT | 1.5 U | 1.4 U | 1.5 U | 1.4 U | 3.8 J | 1.8 J | 1.5 U |
| Residual Range Hydrocarbons | RRH | mg/kg | 745 JT | 305 JT | 700 J | 880 JT | 750 J | 885 JT | 5.45 JT | 3.6 U | 3.4 U | 3.5 U | 3.3 U | 12 J | 26 J | 8.4 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 535 JT | 185 JT | 520 J | 635 JT | 550 J | 640 JT | 3.7 UT | 3.6 U | 3.4 U | 3.5 U | 3.3 U | 8.6 J | 4.1 J | 3.6 U |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 940 JA | 356 JA | 890 JA | 1130 JA | 970 JA | 1130 JA | 5.45 JA | 3.6 UA | 3.4 UA | 3.5 UA | 3.3 UA | 16.3 JA | 29.4 JA | 9.9 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 715 JA | 226 JA | 690 JA | 855 JA | 750 JA | 845 JA | 3.7 UA | 3.6 UA | 3.4 UA | 3.5 UA | 3.3 UA | 12.4 JA | 5.9 JA | 3.6 UA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.37 U | 0.34 UT | 0.47 J | 0.38 UT | 0.32 U | 0.39 UT | 0.27 U | 0.26 U | 0.25 U | 0.25 U | 0.23 U | 0.28 U | 0.28 U | 0.26 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.3 U | 0.28 UT | 1.4 NJ | 0.31 UT | 0.26 U | 1.7 JT | 0.22 U | 0.21 U | 0.2 U | 0.2 U | 0.19 U | 0.23 U | 0.23 U | 0.21 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 3.6 U | 3.1 UT | 3.8 U | 3.8 UT | 2.7 U | 3.8 UT | 6.4 U | 6.1 U | 5.8 U | 5.9 U | 5.5 U | 6.6 U | 6.5 U | 6.1 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.24 U | 0.19 UT | 0.32 U | 0.23 JT | 0.23 U | 0.41 JT | 0.14 U | 0.14 U | 0.13 U | 0.13 U | 0.12 U | 0.15 U | 0.15 U | 0.14 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 2 U | 1 UT | 5 U | 4 UT | 5 U | 5 UT | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | R | R | R | R | R | R | R | R | R | R | R | R | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 34 U | 17 UT | 85 U | 68 UT | 85 U | 85 UT | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 4 U | 2 UT | 10 U | 8 UT | 10 U | 10 UT | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 3 U | 1.5 UT | 7.5 U | 6 UT | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 3 U | 1.5 UT | 7.5 U | 6 UT | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 2.8 U | 1.4 UT | 7 U | 5.6 UT | 7 U | 7 UT | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 2.8 U | 1.4 UT | 7 U | 5.6 UT | 7 U | 7 UT | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 3 U | 1.5 UT | 64 | 23 JT | 7.5 U | 190 T | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 36 U | 18 UT | 90 U | 72 UT | 90 U | 90 UT | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 1.9 NJ | 1.5 JT | 3 J | 2.9 JT | 4.3 J | 4.6 JT | 0.21 U | 0.2 U | 0.19 U | 0.19 U | 0.18 U | 0.21 U | 0.21 U | 0.2 U |
| Phenol | 108-95-2 | ug/kg | 4 U | 2 UT | 10 U | 8 UT | 10 U | 10 UT | 7.8 U | 8.7 U | 8.1 U | 9.5 U | 7.4 U | 8.6 U | 13 U | 2 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 190 | 160 T | 340 | 360 T | 530 | 320 T | 7 U | 7 U | 7 U | 7 U | 7 U | 7 U | 7 U | 7 U |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 6.4 U | 9.1 JT | 16 U | 29 JT | 16 U | 16 UT | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 20 | 13 T | 40 U | 32 UT | 40 U | 40 UT | 7.9 U | 7.9 U | 7.9 U | 7.9 U | 7.9 U | 8.6 | 8.2 | 7.9 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 2.6 U | 2.1 JT | 6.5 U | 7.8 JT | 6.5 U | 6.5 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.6 U | 1.3 U | 1.3 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 2 U | 1 UT | 5 U | 4 UT | 5 U | 5 UT | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 3.4 U | 11 T | 8.5 U | 6.8 UT | 8.5 U | 8.5 UT | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 5.2 U | 2.6 UT | 13 U | 11 UT | 13 U | 13 UT | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 5.8 U | 2.9 UT | 15 U | 12 UT | 15 U | 15 UT | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 6 U | 3 UT | 15 U | 12 UT | 15 U | 15 UT | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 5.8 U | 2.9 UT | 15 U | 12 UT | 15 U | 15 UT | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 3 U | 1.5 UT | 7.5 U | 6 UT | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 4 U | 2 UT | 10 U | 8 UT | 10 U | 10 UT | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 3.2 U | 1.6 UT | 8 U | 6.4 UT | 8 U | 8 UT | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 6.4 U | 3.2 UT | 16 U | 13 UT | 16 U | 16 UT | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 7.4 U | 3.7 UT | 19 U | 15 UT | 19 U | 19 UT | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 5 U | 2.5 UT | 13 U | 10 UT | 13 U | 13 UT | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 3.2 U | 1.6 UT | 8 U | 6.4 UT | 8 U | 8 UT | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 3.8 U | 1.9 UT | 9.5 U | 7.6 UT | 9.5 U | 9.5 UT | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 2.8 U | 1.4 UT | 7 U | 5.6 UT | 7 U | 7 UT | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 3.6 U | 1.8 UT | 9 U | 7.2 UT | 9 U | 9 UT | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | R | R | R | R | R | R | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 2.2 U | 1.1 UT | 5.5 U | 4.4 UT | 5.5 U | 5.5 UT | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | 200 U | 130 JT | 480 U | 390 UT | 480 U | 480 UT | 96 U | 96 U | 96 U | 96 U | 96 U | 96 U | 96 U | 96 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 4.2 U | 5.2 JT | 11 U | 8.4 UT | 11 U | 11 UT | 2.3 J | 3.8 J | 3.4 J | 3.7 J | 3.4 J | 2.1 U | 2.1 U | 2.1 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 3 U | 1.5 UT | 7.5 U | 6 UT | 7.5 U | 7.5 UT | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 3.8 U | 1.9 UT | 9.5 U | 7.6 UT | 9.5 U | 9.5 UT | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 5.2 U | 2.6 UT | 13 U | 11 UT | 13 U | 13 UT | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U |
| Carbazole | 86-74-8 | ug/kg | 2.6 U | 4.8 JT | 6.5 U | 8.3 JT | 23 J | 6.5 UT | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| Dibenzofuran | 132-64-9 | ug/kg | 3.5 | 2 JT | 13 | 9 T | 53 | 9.9 T | 0.59 U | 0.59 U | 0.59 U | 0.59 U | 0.59 U | 0.59 U | 0.59 U | 0.59 U |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.19 U | 0.083 JT | 0.33 U | 0.19 UT | 0.34 U | 0.3 T | 0.068 U | 0.068 U | 0.068 U | 0.09 U | 0.068 U | 0.071 U | 0.068 U | 0.068 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C773-B1 | LW3-C773-B2 | LW3-C773-C1 | LW3-C773-C2 | LW3-C773-D1 | LW3-C773-D2 | LW3-C777-B | LW3-C777-C | LW3-C777-D | LW3-C778-B | LW3-C778-C | LW3-C779-B | LW3-C779-C | LW3-C779-E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 152 | 30 - 103 | 152 - 285 | 103 - 223 | 285 - 319 | 223 - 348 | 30 - 122 | 122 - 215 | 215 - 252 | 30 - 118 | 118 - 241 | 30 - 97 | 97 - 154 | 212 - 293 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.14 UT | 1 J | 0.32 UT | 0.7 U | 0.29 JT | 0.14 U | 0.63 U | 0.14 U | 0.42 U | 0.14 U | 0.14 U | 0.3 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 58 U | 29 UT | 150 U | 120 UT | 150 U | 150 UT | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.59 U | 0.16 UT | 0.57 U | 0.27 UT | 0.8 U | 0.32 UT | 0.18 U | 0.16 U | 0.16 U | 0.22 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| Isophorone | 78-59-1 | ug/kg | 2 U | 1 UT | 5 U | 4 UT | 5 U | 5 UT | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 4.4 U | 2.2 UT | 11 U | 8.8 UT | 11 U | 11 UT | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 13 U | 6.1 UT | 31 U | 25 UT | 31 U | 31 UT | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 3.2 U | 1.6 UT | 8 U | 6.4 UT | 8 U | 8 UT | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 4.8 U | 2.4 UT | 12 U | 9.6 UT | 12 U | 12 UT | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U |

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Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C782-A | LW3-C782-B | LW3-C782-C | LW3-C783-B | LW3-C783-C | LW3-C783-D | LW3-C783-E | LW3-MC001-B1 | LW3-MC001-B2 | LW3-MC001-C1 | LW3-MC001-C2 | LW3-MC002-B | LW3-MC002-C | LW3-MC002-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 0 - 30 | 30 - 66 | 66 - 136 | 30 - 70 | 70 - 141 | 141 - 244 | 244 - 327 | 30 - 151 | 30 - 151 | 151 - 280 | 151 - 273 | 30 - 152 | 152 - 237 | 237 - 343 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| **PCB Aroclors** | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 3.7 U | 0.73 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 3.7 U | 0.73 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 3.7 U | 0.73 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 19 | 1.1 U | 0.73 U | 0.97 U | 1.3 U | 3.1 J | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1248 | 12672-29-6 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 3.7 U | 0.73 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 39 | 1.5 U | 0.73 U | 0.73 U | 1.3 U | 6.6 NJ | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1260 | 11096-82-5 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 26 | 1.6 J | 0.73 U | 0.73 U | 1.3 U | 4.4 | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1262 | 37324-23-5 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 3.7 U | 0.73 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 0.73 U | 0.73 U | 0.73 U | 3.7 U | 0.73 U | 0.73 U | 0.73 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1 U |
| Aroclors | 12767-79-2 | ug/kg | 0.73 UT | 0.73 UT | 0.73 UT | 84 T | 1.6 JT | 0.73 UT | 0.97 UT | 1.3 UT | 14.1 JT | 1.3 UT | 1.3 UT | 1.3 UT | 1.3 UT | 1 UT |
| **Conventionals** | | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 2.43 | 2.43 | 2.15 | 1.5 T | 1.81 | 1.77 | 1.76 | 1.74 | 1.76 | 1.65 | 1.4 | 1.58 | 1.58 | |
| Total organic carbon | TOC | percent | 0.05 J | 0.02 U | 0.12 | 2.84 T | 1.03 | 1.4 | 0.62 | 1 | 1.04 | 1.01 | 0.97 | 1.12 | 0.95 | 0.07 T |
| Total solids | TSO | percent | 93.6 | 94.3 | 90.7 | 53.1 T | 67.8 | 68.1 | 66.3 | 64 | 63.9 | 63.2 | 63.6 | 62.2 | 66 | 74.1 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | | | | | | | | |
| **Grain Size** | | | | | | | | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0 | 13 | 36.6 JT | 1.73 | 1.03 | 4.52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Fine gravel | GS_FG | percent | 0.43 | 8.81 | 18.3 T | 5.81 | 2.83 | 1.32 | 0.01 | 0.17 | 0.21 | 0.05 | 0.19 | 0.37 | 0.61 | |
| Very coarse sand | GS_VCS | percent | 2.46 | 7.1 | 17.1 T | 2.55 | 1.85 | 1.6 | 0.21 | 0.19 | 0.59 | 0.12 | 0.22 | 0.59 | 0.78 | |
| Coarse sand | GS_CS | percent | 38.9 | 30.3 | 20.3 T | 4.99 | 10.1 | 4.44 | 0.5 | 0.19 | 0.75 | 0.13 | 0.16 | 0.39 | 0.47 | |
| Medium sand | GS_MS | percent | 51.2 | 35 | 6.44 T | 18.9 | 59.7 | 13.6 | 1.92 | 0.6 | 1.93 | 0.64 | 0.45 | 1.24 | 3.68 | |
| Fine sand | GS_FS | percent | 5.32 | 3.85 | 0.527 T | 8.91 | 11.6 | 24.7 | 9.91 | 11.6 | 16.6 | 7.5 | 7.91 | 10.7 | 23.3 | |
| Very fine sand | GS_VFS | percent | 0.35 | 0.23 | 0.07 T | 5.94 | 1.94 | 16.5 | 27.4 | 20.8 | 20.3 | 21.3 | 21.2 | 19.1 | 18.2 | |
| Fines | GS_FINES | percent | 0.76 T | 0.56 T | 0.397 T | 56.3 T | 14.2 T | 33.8 T | 64.8 T | 66.3 T | 57.8 T | 69 T | 71 T | 68.7 T | 50.8 T | |
| Coarse silt | GS_CSILT | percent | 0.24 | 0.07 | 0.03 T | 9.96 | 1.59 | 10.6 | 27.8 | 20.9 | 19.3 | 21.1 | 22.3 | 19 | 13.3 | |
| Medium silt | GS_MSILT | percent | 0.1 | 0.12 | 0.08 T | 14.1 | 3.61 | 8.96 | 15.3 | 17.1 | 12.3 | 17 | 18.8 | 16.4 | 12.8 | |
| Fine silt | GS_FSILT | percent | 0.15 | 0.1 | 0.107 T | 12.1 | 2.64 | 5.3 | 8.44 | 11.4 | 10.8 | 12.4 | 11.1 | 12.1 | 9.34 | |
| Very fine silt | GS_VFSILT | percent | 0.01 | 0.11 | 0 T | 6.43 | 2.46 | 3.19 | 4.16 | 5.41 | 4.43 | 5.58 | 6.53 | 7.09 | 4.24 | |
| 8-9 Phi clay | GS_CCLAY | percent | 0.05 | 0 | 0.0633 T | 4.46 | 1.39 | 2.37 | 2.15 | 3.55 | 3.58 | 4.37 | 3.8 | 4.58 | 3.42 | |
| >9 Phi clay | GS_MFCLAY | percent | 0.21 | 0.16 | 0.117 T | 9.28 | 2.52 | 3.37 | 6.95 | 7.97 | 7.39 | 8.53 | 8.45 | 9.52 | 7.68 | |
| **Metals** | | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 8980 | 7520 | 5940 | 23900 J | 13600 J | 18700 J | 23800 J | 23000 | 23800 | 25300 | 25600 | 27200 | 23400 | 8980 |
| Antimony | 7440-36-0 | mg/kg | 0.12 J | 0.13 J | 0.1 J | 0.69 J | 0.69 J | 0.47 J | 0.16 J | 0.16 J | 0.17 J | 0.22 J | 0.17 J | 0.18 J | 0.16 J | 0.11 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C782-A | LW3-C782-B | LW3-C782-C | LW3-C783-B | LW3-C783-C | LW3-C783-D | LW3-C783-E | LW3-MC001-B1 | LW3-MC001-B2 | LW3-MC001-C1 | LW3-MC001-C2 | LW3-MC002-B | LW3-MC002-C | LW3-MC002-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 0 - 30 | 30 - 66 | 66 - 136 | 30 - 70 | 70 - 141 | 141 - 244 | 244 - 327 | 30 - 151 | 30 - 151 | 151 - 280 | 151 - 273 | 30 - 152 | 152 - 237 | 237 - 343 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 1.07 | 0.95 | 0.8 | 4.25 | 2.31 | 2.34 | 2.14 | 1.91 | 2.02 | 2.13 | 2.33 | 2.85 | 1.86 | 2.89 |
| Cadmium | 7440-43-9 | mg/kg | 0.043 | 0.028 U | 0.026 U | 0.852 | 0.481 | 0.208 | 0.101 | 0.128 | 0.164 | 0.136 | 0.14 | 0.175 | 0.118 | 0.126 J |
| Chromium | 7440-47-3 | mg/kg | 6.91 | 7.38 | 5.19 | 29.8 U | 15.8 U | 21.4 U | 24.3 U | 23.2 | 22 | 22.8 | 25.3 | 25.6 | 22.3 | 9.41 |
| Copper | 7440-50-8 | mg/kg | 13.9 | 10.4 | 9.48 | 72.1 | 55.9 | 33.3 | 31 | 29 | 28.1 | 31.5 | 32.8 | 33.4 | 26 | 15.8 |
| Lead | 7439-92-1 | mg/kg | 2.1 | 1.77 | 1.36 | 325 | 200 | 58 | 6.66 | 5.22 | 6.8 | 5.54 | 5.98 | 12.2 | 5.52 | 6.11 |
| Mercury | 7439-97-6 | mg/kg | 0.009 J | 0.009 J | 0.018 | 3.46 JT | 2.02 J | 0.641 J | 0.082 J | 0.028 | 0.035 | 0.038 | 0.034 | 0.145 | 0.03 | 0.006 UJ |
| Nickel | 7440-02-0 | mg/kg | 12.6 | 10.2 | 11.1 | 25.7 | 18.2 | 22.1 | 27.8 | 24.6 | 22.7 | 24.9 | 28.1 | 26.2 | 23.9 | 12.5 |
| Silver | 7440-22-4 | mg/kg | 0.08 | 0.06 | 0.06 | 7.18 | 5.32 | 2.01 | 0.163 | 0.08 | 0.09 | 0.11 | 0.09 | 0.13 | 0.08 | 0.11 |
| Zinc | 7440-66-6 | mg/kg | 45.8 | 42.2 | 37.1 | 315 | 165 | 116 | 63.6 | 69.6 | 84.4 | 71.1 | 69.6 | 79 | 68 | 55.4 |
| **PAHs** | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 0.31 U | 0.31 U | 0.31 U | 63 | 210 | 4000 | 190 | 0.31 U | 4.3 | 0.31 U | 0.31 U | 7.2 | 0.31 U | 0.31 U |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 0.39 U | 0.39 U | 0.39 U | 120 | 240 | 3600 | 240 | 0.39 U | 9.2 | 0.39 U | 0.39 U | 11 | 0.39 U | 0.39 U |
| Acenaphthene | 83-32-9 | ug/kg | 3.6 | 0.7 J | 0.69 J | 370 | 560 | 8100 | 370 | 0.52 J | 10 | 0.23 U | 0.23 U | 50 | 0.23 U | 0.23 U |
| Acenaphthylene | 208-96-8 | ug/kg | 0.24 U | 0.24 U | 0.24 U | 59 | 150 | 610 | 27 | 0.24 U | 12 | 0.24 U | 0.24 U | 19 | 0.42 J | 0.24 U |
| Anthracene | 120-12-7 | ug/kg | 0.47 U | 0.47 U | 0.47 U | 110 | 440 | 5400 | 260 | 0.47 U | 8.1 | 0.47 U | 0.47 U | 58 | 0.47 U | 0.47 U |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 0.48 U | 0.48 U | 0.48 U | 310 | 1300 | 4200 | 220 | 0.48 U | 89 | 0.48 U | 0.48 U | 180 | 0.84 J | 0.83 J |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 0.14 U | 0.14 U | 0.14 U | 250 | 1500 | 4300 | 220 | 0.14 U | 130 | 0.14 U | 0.14 U | 390 | 0.68 J | 0.39 J |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 310 | 1600 | 4000 | 210 | 0.25 U | 120 | 0.25 U | 0.25 U | 330 | 0.79 J | 1.1 U |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 0.18 U | 0.18 U | 0.18 U | 190 | 940 | 2400 | 120 | | | | | | | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 0.64 U | 0.64 U | 0.64 U | 190 | 1100 | 2100 | 110 | 0.64 U | 110 | 0.64 U | 0.64 U | 480 | 0.64 U | 0.65 J |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 0.15 U | 0.15 U | 0.15 U | 110 | 560 | 1400 | 72 | 0.15 U | 36 | 0.15 U | 0.15 U | 93 | 0.29 J | 0.48 J |
| Chrysene | 218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 400 | 1300 | 3700 | 200 | 0.25 U | 110 | 0.25 U | 0.25 U | 220 | 0.73 J | 1.8 U |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 0.28 U | 0.28 U | 0.28 U | 29 | 130 | 380 | 20 | 0.28 U | 11 | 0.28 U | 0.28 U | 25 | 0.28 U | 0.28 U |
| Dibenzothiophene | 132-65-0 | ug/kg | 0.21 U | 0.21 U | 0.21 U | 100 | 180 | 1200 | 49 | 0.21 U | 9.4 | 0.21 U | 0.21 U | 30 | 0.21 U | 0.21 U |
| Fluoranthene | 206-44-0 | ug/kg | 0.61 U | 0.61 U | 0.61 U | 1800 | 2600 | 12000 | 610 | 0.61 U | 140 | 0.61 U | 0.61 U | 800 | 1.5 J | 2.4 U |
| Fluorene | 86-73-7 | ug/kg | 0.5 U | 0.5 U | 0.5 U | 210 | 300 | 4800 | 230 | 0.5 U | 8.5 | 0.5 U | 0.5 U | 20 | 0.5 U | 0.5 U |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 0.16 U | 0.16 U | 0.16 U | 190 | 1100 | 2400 | 120 | 0.16 U | 94 | 0.19 J | 0.16 U | 380 | 0.57 J | 0.57 U |
| Naphthalene | 91-20-3 | ug/kg | 0.73 U | 0.57 U | 0.5 U | 210 | 410 | 5400 | 320 | 0.6 U | 24 | 0.44 U | 0.47 U | 56 | 1.2 J | 0.46 U |
| Perylene | 198-55-0 | ug/kg | 0.32 U | 0.32 U | 0.32 U | 140 | 420 | 980 | 110 | | | | | | | |
| Phenanthrene | 85-01-8 | ug/kg | 0.75 U | 0.75 U | 0.75 U | 1300 | 2000 | 17000 | 890 | 0.75 U | 89 | 0.75 U | 0.75 U | 420 | 1.4 J | 1.4 J |
| Pyrene | 129-00-0 | ug/kg | 0.37 U | 0.37 U | 0.37 U | 1900 | 2800 | 11000 | 510 | 0.5 J | 180 | 0.57 J | 0.37 U | 920 | 1.8 J | 2.2 U |
| High Molecular Weight PAH | HPAH | ug/kg | 0.64 UT | 0.64 UT | 0.64 UT | 5500 T | 14000 T | 45000 T | 2300 T | 0.5 JT | 1000 T | 0.76 JT | 0.64 UT | 3800 T | 7.2 JT | 2.4 JT |
| Low Molecular Weight PAH | LPAH | ug/kg | 3.6 T | 0.7 JT | 0.69 JT | 2400 T | 4100 T | 45000 T | 2300 T | 0.52 JT | 160 T | 0.75 UT | 0.75 UT | 630 T | 3 JT | 1.4 JT |
| Total PAHs | 130498-29-2 | ug/kg | 3.6 T | 0.7 JT | 0.69 JT | 7900 T | 18000 T | 90000 T | 4600 T | 1 JT | 1200 T | 0.76 JT | 0.75 UT | 4500 T | 10 JT | 3.8 JT |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 0.21 U | 0.21 U | 0.21 U | 360 | 400 | 330 | 9.9 | | | | | | | |
| C1-Chrysene | C1_218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 360 | 980 | 3000 | 150 | | | | | | | |
| C1-Fluorene | C1_86-73-7 | ug/kg | 0.5 U | 0.5 U | 0.5 U | 150 | 230 | 1400 | 68 | | | | | | | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 0.61 U | 0.61 U | 0.61 U | 750 | 1800 | 7300 | 360 | | | | | | | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 0.75 U | 0.75 U | 0.75 U | 1100 | 1400 | 7400 | 370 | | | | | | | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 0.21 U | 0.21 U | 0.21 U | 410 | 410 | 700 | 25 | | | | | | | |
| C2-Chrysene | C2_218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 440 | 650 | 1200 | 61 | | | | | | | |
| C2-Fluorene | C2_86-73-7 | ug/kg | 0.5 U | 0.5 U | 0.5 U | 420 | 530 | 1400 | 71 | | | | | | | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 0.37 U | 0.37 U | 0.37 U | 590 | 980 | 4800 | 210 | | | | | | | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 0.75 U | 0.75 U | 0.75 U | 1100 | 1400 | 3500 | 160 | | | | | | | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 0.21 U | 0.21 U | 0.21 U | 410 | 470 | 560 | 12 | | | | | | | |
| C3-Chrysene | C3_218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 460 | 460 | 620 | 26 | | | | | | | |
| C3-Fluorene | C3_86-73-7 | ug/kg | 0.5 U | 0.5 U | 0.5 U | 990 | 1100 | 1900 | 88 | | | | | | | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 0.37 U | 0.37 U | 0.37 U | 990 | 1200 | 2500 | 110 | | | | | | | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 0.75 U | 0.75 U | 0.75 U | 1300 | 1800 | 1700 | 95 | | | | | | | |
| C4-Chrysene | C4_218-01-9 | ug/kg | 0.25 U | 0.25 U | 0.25 U | 2.5 U | 330 | 480 | 15 | | | | | | | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 0.37 U | 0.37 U | 0.37 U | 900 | 1000 | 1300 | 46 | | | | | | | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 0.75 U | 0.75 U | 0.75 U | 610 | 670 | 490 | 24 | | | | | | | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 0.61 U | 0.61 U | 0.61 U | 450 | 1000 | 2900 | 140 | | | | | | | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 0.61 U | 0.61 U | 0.61 U | 470 | 620 | 1400 | 59 | | | | | | | |
| **PCB Congeners** | | | | | | | | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C782-A | LW3-C782-B | LW3-C782-C | LW3-C783-B | LW3-C783-C | LW3-C783-D | LW3-C783-E | LW3-MC001-B1 | LW3-MC001-B2 | LW3-MC001-C1 | LW3-MC001-C2 | LW3-MC002-B | LW3-MC002-C | LW3-MC002-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 0 - 30 | 30 - 66 | 66 - 136 | 30 - 70 | 70 - 141 | 141 - 244 | 244 - 327 | 30 - 151 | 30 - 151 | 151 - 280 | 151 - 273 | 30 - 152 | 152 - 237 | 237 - 343 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C782-A | LW3-C782-B | LW3-C782-C | LW3-C783-B | LW3-C783-C | LW3-C783-D | LW3-C783-E | LW3-MC001-B1 | LW3-MC001-B2 | LW3-MC001-C1 | LW3-MC001-C2 | LW3-MC002-B | LW3-MC002-C | LW3-MC002-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 0 - 30 | 30 - 66 | 66 - 136 | 30 - 70 | 70 - 141 | 141 - 244 | 244 - 327 | 30 - 151 | 30 - 151 | 151 - 280 | 151 - 273 | 30 - 152 | 152 - 237 | 237 - 343 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C782-A | LW3-C782-B | LW3-C782-C | LW3-C783-B | LW3-C783-C | LW3-C783-D | LW3-C783-E | LW3-MC001-B1 | LW3-MC001-B2 | LW3-MC001-C1 | LW3-MC001-C2 | LW3-MC002-B | LW3-MC002-C | LW3-MC002-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 0 - 30 | 30 - 66 | 66 - 136 | 30 - 70 | 70 - 141 | 141 - 244 | 244 - 327 | 30 - 151 | 30 - 151 | 151 - 280 | 151 - 273 | 30 - 152 | 152 - 237 | 237 - 343 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | | | | | | | | |
| **PCB Homologs** | | | | | | | | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.16 U | 0.16 U | 0.16 U | 8.9 NJ | 0.21 U | 1.6 U | 0.16 U | 0.16 U | 0.67 | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.046 U | 0.046 U | 0.082 J | 1.6 U | 0.3 NJ | 0.73 U | 0.16 U | 0.046 U | 0.13 NJ | 0.046 U | 0.046 U | 0.046 U | 0.046 U | 0.087 J |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.061 U | 0.061 U | 0.061 U | 4.9 J | 0.27 U | 4 U | 0.061 U | 0.061 U | 4.1 | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.073 U | 0.073 U | 0.073 U | 12 | 0.93 | 7.2 U | 0.22 U | 0.073 U | 1.4 | 0.073 U | 0.073 U | 0.073 U | 0.073 U | 0.091 U |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.027 U | 0.027 U | 0.11 U | 11 J | 0.15 U | 2 U | 0.16 U | 0.027 U | 0.69 J | 0.027 U | 0.027 U | 0.027 U | 0.027 U | 0.027 U |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.18 U | 0.18 U | 0.18 U | 5.3 | 0.4 U | 2 U | 0.18 U | 0.18 U | 83 | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.6 U | 0.12 U | 1.2 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.037 U | 0.037 U | 0.037 U | 0.66 U | 0.15 U | 2.7 U | 0.093 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.49 U | 0.097 U | 0.97 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.031 U | 0.031 U | 0.66 U | 0.27 U | 2.2 U | 0.031 U | 0.031 U | 0.099 U | 0.031 U | 0.031 U | 0.031 U | 0.035 U | 0.031 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.47 U | 0.14 U | 0.7 U | 0.14 U | 3.1 NJ | 0.28 NJ | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.54 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.031 U | 0.031 U | 0.8 U | 0.17 U | 0.31 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.087 U | 0.087 U | 0.087 U | 3.4 J | 0.52 U | 8.3 U | 0.087 U | 0.087 U | 1.1 U | 0.087 U | 0.087 U | 0.087 U | 0.087 U | 0.087 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.12 U | 0.11 U | 0.62 U | 0.11 U | 1.1 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.2 U |
| Dieldrin | 60-57-1 | ug/kg | 0.03 U | 0.03 U | 0.03 U | 0.94 U | 0.094 U | 3.6 U | 0.29 J | 0.11 J | 0.068 NJ | 0.096 J | 0.096 J | 0.27 NJ | 0.11 J | 0.03 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.058 U | 0.058 U | 2.5 U | 0.12 U | 0.58 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.058 U | 0.16 U | 0.058 U | 0.077 J |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.071 U | 0.071 U | 0.36 U | 0.18 | 1.5 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 0.042 U | 0.042 U | 1.1 U | 0.37 U | 2.7 U | 0.11 U | 0.042 U | 0.042 U | 0.042 U | 0.042 U | 0.042 U | 0.042 U | 0.078 J |
| Endrin ketone | 53494-70-5 | ug/kg | 0.029 U | 0.029 U | 0.029 U | 2.9 NJ | 0.092 U | 2.6 J | 0.041 U | 0.029 U | 0.18 U | 0.029 U | 0.029 U | 0.053 J | 0.029 U | 0.029 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.062 U | 0.14 U | 0.062 U | 2.1 U | 0.15 U | 2.9 U | 0.23 U | 0.062 U | 0.062 U | 0.062 U | 0.062 U | 0.21 U | 0.062 U | 0.062 U |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.19 U | 0.076 U | 0.38 U | 0.24 | 0.76 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.13 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.068 U | 0.068 U | 0.068 U | 0.94 U | 0.24 U | 0.7 U | 0.068 U | 0.068 U | 0.22 NJ | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.075 U | 0.075 U | 0.075 U | 0.72 U | 0.44 U | 0.75 U | 0.21 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.6 U | 0.14 U | 2.1 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 U | 0.061 U | 0.24 NJ | 0.67 U | 0.26 NJ | 4.3 NJ | 0.12 J | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.061 U | 0.077 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.087 UT | 0.087 UT | 0.24 JT | 3.4 JT | 0.26 JT | 4.3 JT | 0.12 JT | 0.087 UT | 1.1 UT | 0.087 UT | 0.087 UT | 0.087 UT | 0.087 UT | 0.087 UT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C782-A | LW3-C782-B | LW3-C782-C | LW3-C783-B | LW3-C783-C | LW3-C783-D | LW3-C783-E | LW3-MC001-B1 | LW3-MC001-B2 | LW3-MC001-C1 | LW3-MC001-C2 | LW3-MC002-B | LW3-MC002-C | LW3-MC002-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 0 - 30 | 30 - 66 | 66 - 136 | 30 - 70 | 70 - 141 | 141 - 244 | 244 - 327 | 30 - 151 | 30 - 151 | 151 - 280 | 151 - 273 | 30 - 152 | 152 - 237 | 237 - 343 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.058 UT | 0.058 UT | 0.058 UT | 2.5 UT | 0.27 UT | 2.7 UT | 0.093 UT | 0.058 UT | 0.099 UT | 0.058 UT | 0.058 UT | 0.16 UT | 0.058 UT | 0.077 JT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.16 UT | 0.16 UT | 0.16 UT | 21 JT | 0.93 T | 7.2 UT | 0.22 UT | 0.16 UT | 2.1 T | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 0.18 UT | 0.18 UT | 0.082 JT | 42 JT | 1.2 JT | 7.2 UT | 0.22 UT | 0.18 UT | 90 JT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.087 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.046 UT | 0.046 UT | 0.082 JT | 11 JT | 0.3 JT | 2 UT | 0.16 UT | 0.046 UT | 0.82 JT | 0.046 UT | 0.046 UT | 0.046 UT | 0.046 UT | 0.087 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.18 UT | 0.18 UT | 0.18 UT | 10 JT | 0.4 UT | 4 UT | 0.18 UT | 0.18 UT | 87 T | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT |
| Toxaphene | 8001-35-2 | ug/kg | 3.4 U | 3.4 U | 3.4 U | 130 U | 25 U | 270 U | 6 U | 3.4 U | 13 U | 3.4 U | 3.4 U | 3.5 U | 3.4 U | 3.4 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.027 U | 0.027 U | 0.027 U | 1.1 U | 0.21 U | 1.5 U | 0.027 U | 0.027 U | 0.16 U | 0.027 U | 0.027 U | 0.027 U | 0.027 U | 0.027 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.034 U | 0.034 U | 0.034 U | 0.94 U | 0.085 U | 1.5 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 1.3 U | 1.3 UT | 1.4 U | 1300 J | 1000 J | 975 JT | 33 J | 4.6 J | 45 J | 4.7 J | 5 J | 45 J | 5.2 J | 1.4 U |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 1.3 U | 1.3 UT | 1.4 U | 1200 J | 920 J | 741 JT | 17 J | 3.4 U | 22 J | 3.5 U | 3.4 U | 38 J | 3.5 U | 1.4 U |
| Residual Range Hydrocarbons | RRH | mg/kg | 10 J | 3.6 JT | 3.2 U | 2700 J | 1900 J | 1350 JT | 82 J | 44 J | 83 J | 46 J | 46 J | 130 J | 50 J | 3.3 U |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 3.1 U | 3.1 UT | 3.2 U | 2300 J | 1500 J | 895 JT | 27 J | 13 U | 26 U | 15 U | 13 U | 79 J | 15 U | 3.3 U |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 10 JA | 3.6 JA | 3.2 UA | 4000 JA | 2900 JA | 2330 JA | 115 JA | 48.6 JA | 128 JA | 50.7 JA | 51 JA | 175 JA | 55.2 JA | 3.3 UA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 3.1 UA | 3.1 UA | 3.2 UA | 3500 JA | 2420 JA | 1640 JA | 44 JA | 13 UA | 22 JA | 15 UA | 13 UA | 117 JA | 15 UA | 3.3 UA |
| **Phenols** | | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.23 U | 0.23 U | 0.23 U | 0.61 U | 0.31 U | 0.3 U | 0.31 U | 0.33 U | 0.33 U | 0.33 U | 0.33 U | 0.34 U | 0.32 U | 0.3 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.18 U | 0.18 U | 0.19 U | 0.31 U | 0.25 U | 0.24 U | 0.25 U | 0.27 U | 0.27 U | 0.26 U | 0.27 U | 0.28 U | 0.26 U | 0.54 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 5.3 U | 5.3 U | 2.3 U | 5.1 J | 4.1 J | 2.5 U | 2.2 U | 0.85 U | 0.86 U | 0.85 U | 0.85 U | 0.89 U | 0.82 U | 6.7 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 1.3 J | 0.16 U | 0.16 U | 0.17 U | 0.17 U | 0.18 U | 0.17 U | 0.17 U | 0.18 U | 0.17 U | 0.48 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 1 U | 1 U | 50 U | 50 U | 50 U | 1 U | 1 U | 1 U | 1 U | 1 U | 4 U | 1 U | 1 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 5.5 U | 5.5 U | 5.5 U | R | R | R | R | R | R | R | R | R | R | 5.5 U |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 U | 17 U | 17 U | 850 U | 850 U | 850 U | 17 U | 17 U | 17 U | 17 U | 17 U | 68 U | 17 U | 17 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 2 U | 2 U | 100 U | 100 U | 100 U | 2 U | 2 U | 2 U | 2 U | 2 U | 8 U | 2 U | 2 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 75 U | 75 U | 75 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 6 U | 1.5 U | 1.5 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 75 U | 75 U | 75 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 6 U | 1.5 U | 1.5 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 70 U | 70 U | 70 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 5.6 U | 1.4 U | 1.4 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 70 U | 70 U | 70 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 5.6 U | 1.4 U | 1.4 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 75 U | 300 J | 140 J | 3.4 J | 1.5 U | 3.5 J | 1.5 U | 1.5 U | 29 J | 6 J | 1.5 U |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 18 U | 18 U | 900 U | 900 U | 900 U | 18 U | 18 U | 18 U | 18 U | 18 U | 72 U | 18 U | 18 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.17 U | 0.17 U | 0.18 U | 3 J | 0.24 U | 0.23 U | 0.24 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.26 U | 0.24 U | 2.1 U |
| Phenol | 108-95-2 | ug/kg | 4.8 J | 2 U | 3.8 J | 100 U | 100 U | 100 U | 2 U | 2 U | 2 U | 2 U | 2 U | 8 U | 2 U | 2 U |
| **Phthalates** | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 7 U | 7 U | 7 U | 350 U | 350 U | 350 U | 7 U | 7 U | 7 U | 7 U | 18 | 28 U | 7 U | 7 U |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 160 U | 160 U | 160 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 13 U | 3.2 U | 3.2 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 7.9 U | 7.9 U | 7.9 U | 400 U | 400 U | 400 U | 9 | 12 | 10 | 13 | 8.9 | 32 U | 11 | 13 |
| Diethyl phthalate | 84-66-2 | ug/kg | 1.5 J | 1.4 J | 2.5 J | 65 U | 65 U | 65 U | 1.3 U | 2.2 J | 2.1 J | 2.8 J | 1.3 U | 5.2 U | 1.8 J | 1.8 J |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 1 U | 1 U | 50 U | 50 U | 50 U | 1 U | 1 U | 1 U | 1 U | 1 U | 4 U | 1 U | 1 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 1.7 U | 1.7 U | 85 U | 85 U | 85 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 6.8 U | 1.7 U | 1.7 U |
| **SVOCs** | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 2.6 U | 2.6 U | 130 U | 130 U | 130 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 11 U | 2.6 U | 2.6 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 2.9 U | 2.9 U | 150 U | 150 U | 150 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 12 U | 2.9 U | 2.9 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 3 U | 3 U | 150 U | 150 U | 150 U | 3 U | 3 U | 3 U | 3 U | 3 U | 12 U | 3 U | 3 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 2.9 U | 2.9 U | 150 U | 150 U | 150 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 12 U | 2.9 U | 2.9 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 75 U | 75 U | 75 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 6 U | 1.5 U | 1.5 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 2 U | 2 U | 100 U | 100 U | 100 U | 2 U | 2 U | 2 U | 2 U | 2 U | 8 U | 2 U | 2 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 80 U | 80 U | 120 J | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 6.4 U | 1.6 U | 1.6 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 160 U | 160 U | 160 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 13 U | 3.2 U | 3.2 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 3.7 U | 3.7 U | 3.7 U | 190 U | 190 U | 190 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 15 U | 3.7 U | 3.7 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 2.5 U | 2.5 U | 130 U | 130 U | 130 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 10 U | 2.5 U | 2.5 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 80 U | 80 U | 80 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 6.4 U | 1.6 U | 1.6 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 U | 1.9 U | 1.9 U | 95 U | 95 U | 95 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 7.6 U | 1.9 U | 1.9 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 70 U | 70 U | 70 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 5.6 U | 1.4 U | 1.4 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 1.8 U | 1.8 U | 90 U | 90 U | 90 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 7.2 U | 1.8 U | 1.8 U |
| Aniline | 62-53-3 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 75 U | 75 U | 75 U | 5.1 J | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 6 U | 1.5 U | 1.5 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 U | 1.1 U | 1.1 U | 55 U | 55 U | 55 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 4.4 U | 1.1 U | 1.1 U |
| Benzoic acid | 65-85-0 | ug/kg | R | R | R | 4800 U | 4800 U | 4800 U | 96 U | 96 U | 96 U | 96 U | 96 U | 390 U | 96 U | R |
| Benzyl alcohol | 100-51-6 | ug/kg | 2.1 U | 2.1 U | 2.1 U | 110 U | 110 U | 110 U | 4.5 J | 6.6 J | 5.5 J | 6.6 J | 6.6 J | 9.7 J | 4.4 J | 2.1 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 75 U | 75 U | 75 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 6 U | 1.5 U | 1.5 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 1.9 U | 1.9 U | 95 U | 95 U | 95 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 7.6 U | 1.9 U | 1.9 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 2.6 UJ | 2.6 U | 130 UJ | 130 UJ | 130 UJ | 2.6 UJ | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 11 U | 2.6 U | 2.6 U |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 65 U | 65 U | 1700 | 80 | 1.3 U | 2.1 J | 1.3 U | 1.3 U | 6.4 J | 1.3 U | 1.3 U |
| Dibenzofuran | 132-64-9 | ug/kg | 0.59 U | 0.59 U | 0.59 U | 40 | 84 | 2400 | 130 | 0.59 U | 2.1 | 0.59 U | 0.59 U | 3.8 | 0.59 U | 0.59 U |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 U | 0.068 U | 0.068 U | 0.64 J | 0.21 U | 1.2 U | 0.069 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.2 U |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-C782-A | LW3-C782-B | LW3-C782-C | LW3-C783-B | LW3-C783-C | LW3-C783-D | LW3-C783-E | LW3-MC001-B1 | LW3-MC001-B2 | LW3-MC001-C1 | LW3-MC001-C2 | LW3-MC002-B | LW3-MC002-C | LW3-MC002-D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 0 - 30 | 30 - 66 | 66 - 136 | 30 - 70 | 70 - 141 | 141 - 244 | 244 - 327 | 30 - 151 | 30 - 151 | 151 - 280 | 151 - 273 | 30 - 152 | 152 - 237 | 237 - 343 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.14 U | 0.45 U | 0.14 U | 0.7 U | 0.14 U | 1.4 U | 0.14 U | 0.14 U | 2.5 U | 0.14 U | 0.14 U | 0.14 U | 0.15 U | 0.14 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 29 U | 29 U | 1500 U | 1500 U | 1500 U | 29 U | 29 U | 29 U | 29 U | 29 U | 120 U | 29 U | 29 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.16 U | 0.22 U | 0.8 U | 0.16 U | 1.6 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.28 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 1 U | 1 U | 50 U | 50 U | 50 U | 1 U | 1 U | 1 U | 1 U | 1 U | 4 U | 1 U | 1 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 2.2 U | 2.2 U | 110 U | 110 U | 110 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 8.8 U | 2.2 U | 2.2 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 U | 6.1 U | 6.1 U | 310 U | 310 U | 310 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 25 U | 6.1 U | 6.1 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 80 U | 80 U | 80 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 6.4 U | 1.6 U | 1.6 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 2.4 U | 2.4 U | 120 U | 120 U | 120 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 9.6 U | 2.4 U | 2.4 U |

**DO NOT QUOTE OR CITE**
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-MC006-B | LW3-MC006-C | LW3-MC006-D | LW3-MC008-B | LW3-MC008-C | LW3-MC008-D | LW3-MC009-B |
|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 110 | 110 - 196 | 196 - 264 | 30 - 155 | 155 - 277 | 277 - 378 | 30 - 111 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | |
| **PCB Aroclors** | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 1.5 U |
| Aroclor 1221 | 11104-28-2 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 1.5 U |
| Aroclor 1232 | 11141-16-5 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 1.5 U |
| Aroclor 1242 | 53469-21-9 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 53 |
| Aroclor 1248 | 12672-29-6 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 1.5 U |
| Aroclor 1254 | 11097-69-1 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 96 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 64 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 1.5 U |
| Aroclor 1268 | 11100-14-4 | ug/kg | 1.3 U | 1.3 U | 1 U | 1.3 U | 1.3 U | 1 U | 1.5 U |
| Aroclors | 12767-79-2 | ug/kg | 1.3 UT | 1.3 UT | 1 UT | 1.3 UT | 1.3 UT | 1 UT | 213 T |
| **Conventionals** | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 1.77 T | 1.6 | | 1.7 | 1.77 | | 1.34 |
| Total organic carbon | TOC | percent | 0.73 T | 0.81 | 0.12 | 1.07 | 1.35 | 0.81 | 5.06 |
| Total solids | TSO | percent | 67.9 T | 65.1 | 75.8 | 63.4 | 63.6 | 65.6 | 44.7 |
| **Dioxin/Furan Homologs** | | | | | | | | | |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | | | | | | | |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | | | | | | | |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | | | | | | | |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | | | | | | | |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | | | | | | | |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | | | | | | | |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | | | | | | | |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | | | | | | | |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | | | | | | | |
| Total PCDD/F | TOTPCDD_F | pg/g | | | | | | | |
| **Dioxins/Furans** | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | | | | | | | |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | | | | | | | |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | | | | | | | |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | | | | | | | |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | | | | | | | |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | | | | | | | |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | | | | | | | |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | | | | | | | |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | | | | | | | |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | | | | | | | |
| **Grain Size** | | | | | | | | | |
| Medium gravel | GS_MG | percent | 0.00333 T | 0 | | 0.04 | 0.34 | | 0.25 |
| Fine gravel | GS_FG | percent | 0.0533 T | 0.06 | | 0.14 | 1.22 | | 1.02 |
| Very coarse sand | GS_VCS | percent | 0.0967 T | 0.1 | | 0.28 | 1.33 | | 2.02 |
| Coarse sand | GS_CS | percent | 0.57 T | 0.37 | | 0.41 | 0.7 | | 2.93 |
| Medium sand | GS_MS | percent | 14.5 T | 15.2 | | 1.08 | 0.67 | | 3.81 |
| Fine sand | GS_FS | percent | 34.5 T | 19.9 | | 10.8 | 1.35 | | 8.47 |
| Very fine sand | GS_VFS | percent | 18.5 T | 18.9 | | 23.7 | 5.94 | | 16.9 |
| Fines | GS_FINES | percent | 31.7 JT | 44.3 T | | 63.4 T | 88.5 T | | 64.9 T |
| Coarse silt | GS_CSILT | percent | 9.73 T | 13 | | 17.3 | 12.6 | | 14.5 |
| Medium silt | GS_MSILT | percent | 6.93 T | 9.29 | | 13.8 | 18.5 | | 14.9 |
| Fine silt | GS_FSILT | percent | 4.79 JT | 7.63 | | 12.3 | 27.4 | | 13.4 |
| Very fine silt | GS_VFSILT | percent | 4.05 T | 5.25 | | 7.19 | 15.9 | | 8.07 |
| 8-9 Phi clay | GS_CCLAY | percent | 2.18 T | 2.97 | | 3.84 | 5.72 | | 4.84 |
| >9 Phi clay | GS_MFCLAY | percent | 4.02 T | 6.19 | | 9.01 | 8.38 | | 9.19 |
| **Metals** | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 21700 T | 19100 | 10500 | 21900 | 21900 | 20000 | 24600 |
| Antimony | 7440-36-0 | mg/kg | 0.145 JT | 0.17 J | 0.03 J | 0.15 J | 0.18 J | 0.07 J | 0.23 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-MC006-B | LW3-MC006-C | LW3-MC006-D | LW3-MC008-B | LW3-MC008-C | LW3-MC008-D | LW3-MC009-B |
|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 110 | 110 - 196 | 196 - 264 | 30 - 155 | 155 - 277 | 277 - 378 | 30 - 111 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 2.79 JT | 2.11 | 1.73 | 2.07 | 1.99 | 2.06 | 3.55 |
| Cadmium | 7440-43-9 | mg/kg | 0.136 T | 0.11 | 0.083 J | 0.127 | 0.121 | 0.12 J | 0.46 |
| Chromium | 7440-47-3 | mg/kg | 23.4 T | 18.6 | 13.3 | 22.3 | 20.3 | 21.4 | 27.6 |
| Copper | 7440-50-8 | mg/kg | 30.7 T | 25.6 | 14 | 28.9 | 28.1 | 28.6 | 41.8 |
| Lead | 7439-92-1 | mg/kg | 9.72 T | 7.73 | 4.42 | 5.24 | 5.3 | 5.06 | 31.2 |
| Mercury | 7439-97-6 | mg/kg | 0.0705 T | 0.068 | 0.03 J | 0.027 | 0.039 | 0.085 J | 0.108 |
| Nickel | 7440-02-0 | mg/kg | 28.2 T | 21.9 | 17.7 | 24.9 | 21.2 | 23 | 24.9 |
| Silver | 7440-22-4 | mg/kg | 0.09 T | 0.09 | 0.07 | 0.09 | 0.09 | 0.13 | 0.26 |
| Zinc | 7440-66-6 | mg/kg | 65.9 T | 62.8 | 48.8 | 62.8 | 62.3 | 64 | 194 |
| **PAHs** | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 17 | 16 | 0.4 J | 0.31 U | 0.31 U | 0.31 U | 59 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 28 | 37 | 0.44 J | 0.39 U | 0.39 U | 0.39 U | 79 |
| Acenaphthene | 83-32-9 | ug/kg | 47 | 16 | 1.2 J | 0.23 U | 0.23 U | 0.23 U | 240 |
| Acenaphthylene | 208-96-8 | ug/kg | 17 | 7.2 | 1.1 J | 0.24 U | 0.24 U | 0.24 U | 61 |
| Anthracene | 120-12-7 | ug/kg | 65 | 40 | 5.6 | 0.47 U | 0.47 U | 0.47 U | 180 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 86 | 46 | 22 | 0.48 U | 0.48 U | 0.48 U | 510 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 88 | 47 | 18 | 0.14 U | 0.14 U | 0.14 U | 720 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 79 | 42 | 21 | 0.25 U | 0.6 J | 0.25 U | 700 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | | | | | | | |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 41 | 23 | 8.7 | 0.64 U | 0.64 U | 0.64 U | 590 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 26 | 17 | 8.3 | 0.15 U | 0.15 U | 0.15 U | 200 |
| Chrysene | 218-01-9 | ug/kg | 97 | 50 | 19 | 0.25 U | 0.34 J | 0.25 U | 610 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 9.4 | 5.9 | 2 | 0.28 U | 0.28 U | 0.28 U | 70 |
| Dibenzothiophene | 132-65-0 | ug/kg | 14 | 3.4 | 0.29 J | 0.21 U | 0.21 U | 0.21 U | 120 |
| Fluoranthene | 206-44-0 | ug/kg | 140 | 53 | 32 | 0.61 U | 0.61 U | 0.61 U | 1200 |
| Fluorene | 86-73-7 | ug/kg | 36 | 19 | 0.91 J | 0.5 U | 0.5 U | 0.5 U | 170 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 45 | 24 | 9.5 | 0.16 U | 0.24 J | 0.16 U | 580 |
| Naphthalene | 91-20-3 | ug/kg | 34 | 28 | 1.8 | 0.48 U | 0.58 U | 0.56 U | 130 |
| Perylene | 198-55-0 | ug/kg | | | | | | | |
| Phenanthrene | 85-01-8 | ug/kg | 210 | 130 | 8.5 | 0.75 U | 0.75 U | 0.75 U | 1100 |
| Pyrene | 129-00-0 | ug/kg | 170 | 74 | 29 | 0.37 U | 0.49 J | 0.37 U | 1200 |
| High Molecular Weight PAH | HPAH | ug/kg | 780 T | 380 T | 170 T | 0.64 UT | 1.7 JT | 0.64 UT | 6400 T |
| Low Molecular Weight PAH | LPAH | ug/kg | 440 T | 280 T | 20 JT | 0.75 UT | 0.75 UT | 0.75 UT | 2000 T |
| Total PAHs | 130498-29-2 | ug/kg | 1200 T | 660 T | 190 JT | 0.75 UT | 1.7 JT | 0.75 UT | 8300 T |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | | | | | | | |
| C1-Chrysene | C1_218-01-9 | ug/kg | | | | | | | |
| C1-Fluorene | C1_86-73-7 | ug/kg | | | | | | | |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | | | | | | | |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | | | | | | | |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | | | | | | | |
| C2-Chrysene | C2_218-01-9 | ug/kg | | | | | | | |
| C2-Fluorene | C2_86-73-7 | ug/kg | | | | | | | |
| C2-Naphthalene | C2_91-20-3 | ug/kg | | | | | | | |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | | | | | | | |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | | | | | | | |
| C3-Chrysene | C3_218-01-9 | ug/kg | | | | | | | |
| C3-Fluorene | C3_86-73-7 | ug/kg | | | | | | | |
| C3-Naphthalene | C3_91-20-3 | ug/kg | | | | | | | |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | | | | | | | |
| C4-Chrysene | C4_218-01-9 | ug/kg | | | | | | | |
| C4-Naphthalene | C4_91-20-3 | ug/kg | | | | | | | |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | | | | | | | |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | | | | | | | |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | | | | | | | |
| **PCB Congeners** | | | | | | | | | |
| PCB001 | 2051-60-7 | pg/g | | | | | | | |
| PCB002 | 2051-61-8 | pg/g | | | | | | | |
| PCB003 | 2051-62-9 | pg/g | | | | | | | |
| PCB004 & 010 | PCB004_010 | pg/g | | | | | | | |
| PCB005 & 008 | PCB005_008 | pg/g | | | | | | | |
| PCB006 | 25569-80-6 | pg/g | | | | | | | |
| PCB007 & 009 | PCB007_009 | pg/g | | | | | | | |
| PCB011 | 2050-67-1 | pg/g | | | | | | | |
| PCB012 & 013 | PCB012_013 | pg/g | | | | | | | |
| PCB014 | 34883-41-5 | pg/g | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-MC006-B | LW3-MC006-C | LW3-MC006-D | LW3-MC008-B | LW3-MC008-C | LW3-MC008-D | LW3-MC009-B |
|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 110 | 110 - 196 | 196 - 264 | 30 - 155 | 155 - 277 | 277 - 378 | 30 - 111 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | |
| PCB015 | 2050-68-2 | pg/g | | | | | | | |
| PCB016 & 032 | PCB016_032 | pg/g | | | | | | | |
| PCB017 | 37680-66-3 | pg/g | | | | | | | |
| PCB018 | 37680-65-2 | pg/g | | | | | | | |
| PCB019 | 38444-73-4 | pg/g | | | | | | | |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | | | | | | | |
| PCB022 | 38444-85-8 | pg/g | | | | | | | |
| PCB023 | 55720-44-0 | pg/g | | | | | | | |
| PCB024 & 027 | PCB024_027 | pg/g | | | | | | | |
| PCB025 | 55712-37-3 | pg/g | | | | | | | |
| PCB026 | 38444-81-4 | pg/g | | | | | | | |
| PCB028 | 7012-37-5 | pg/g | | | | | | | |
| PCB029 | 15862-07-4 | pg/g | | | | | | | |
| PCB030 | 35693-92-6 | pg/g | | | | | | | |
| PCB031 | 16606-02-3 | pg/g | | | | | | | |
| PCB034 | 37680-68-5 | pg/g | | | | | | | |
| PCB035 | 37680-69-6 | pg/g | | | | | | | |
| PCB036 | 38444-87-0 | pg/g | | | | | | | |
| PCB037 | 38444-90-5 | pg/g | | | | | | | |
| PCB038 | 53555-66-1 | pg/g | | | | | | | |
| PCB039 | 38444-88-1 | pg/g | | | | | | | |
| PCB040 | 38444-93-8 | pg/g | | | | | | | |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | | | | | | | |
| PCB042 & 059 | PCB042_059 | pg/g | | | | | | | |
| PCB043 & 049 | PCB043_049 | pg/g | | | | | | | |
| PCB044 | 41464-39-5 | pg/g | | | | | | | |
| PCB045 | 70362-45-7 | pg/g | | | | | | | |
| PCB046 | 41464-47-5 | pg/g | | | | | | | |
| PCB047 | 2437-79-8 | pg/g | | | | | | | |
| PCB048 & 075 | PCB048_075 | pg/g | | | | | | | |
| PCB050 | 62796-65-0 | pg/g | | | | | | | |
| PCB051 | 68194-04-7 | pg/g | | | | | | | |
| PCB052 & 069 | PCB052_069 | pg/g | | | | | | | |
| PCB053 | 41464-41-9 | pg/g | | | | | | | |
| PCB054 | 15968-05-5 | pg/g | | | | | | | |
| PCB055 | 74338-24-2 | pg/g | | | | | | | |
| PCB056 & 060 | PCB056_060 | pg/g | | | | | | | |
| PCB057 | 70424-67-8 | pg/g | | | | | | | |
| PCB058 | 41464-49-7 | pg/g | | | | | | | |
| PCB061 & 070 | PCB061_070 | pg/g | | | | | | | |
| PCB062 | 54230-22-7 | pg/g | | | | | | | |
| PCB063 | 74472-34-7 | pg/g | | | | | | | |
| PCB065 | 33284-54-7 | pg/g | | | | | | | |
| PCB066 & 076 | PCB066_076 | pg/g | | | | | | | |
| PCB067 | 73575-53-8 | pg/g | | | | | | | |
| PCB068 | 73575-52-7 | pg/g | | | | | | | |
| PCB073 | 74338-23-1 | pg/g | | | | | | | |
| PCB074 | 32690-93-0 | pg/g | | | | | | | |
| PCB077 | 32598-13-3 | pg/g | | | | | | | |
| PCB078 | 70362-49-1 | pg/g | | | | | | | |
| PCB079 | 41464-48-6 | pg/g | | | | | | | |
| PCB080 | 33284-52-5 | pg/g | | | | | | | |
| PCB081 | 70362-50-4 | pg/g | | | | | | | |
| PCB082 | 52663-62-4 | pg/g | | | | | | | |
| PCB083 | 60145-20-2 | pg/g | | | | | | | |
| PCB084 & 092 | PCB084_092 | pg/g | | | | | | | |
| PCB085 & 116 | PCB085_116 | pg/g | | | | | | | |
| PCB086 | 55312-69-1 | pg/g | | | | | | | |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | | | | | | | |
| PCB088 & 091 | PCB088_091 | pg/g | | | | | | | |
| PCB089 | 73575-57-2 | pg/g | | | | | | | |
| PCB090 & 101 | PCB090_101 | pg/g | | | | | | | |
| PCB093 | 73575-56-1 | pg/g | | | | | | | |
| PCB094 | 73575-55-0 | pg/g | | | | | | | |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | | | | | | | |
| PCB096 | 73575-54-9 | pg/g | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-MC006-B | LW3-MC006-C | LW3-MC006-D | LW3-MC008-B | LW3-MC008-C | LW3-MC008-D | LW3-MC009-B |
|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 110 | 110 - 196 | 196 - 264 | 30 - 155 | 155 - 277 | 277 - 378 | 30 - 111 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | |
| PCB097 | 41464-51-1 | pg/g | | | | | | | |
| PCB099 | 38380-01-7 | pg/g | | | | | | | |
| PCB100 | 39485-83-1 | pg/g | | | | | | | |
| PCB103 | 60145-21-3 | pg/g | | | | | | | |
| PCB104 | 56558-16-8 | pg/g | | | | | | | |
| PCB105 | 32598-14-4 | pg/g | | | | | | | |
| PCB106 & 118 | PCB106_118 | pg/g | | | | | | | |
| PCB107 & 109 | PCB107_109 | pg/g | | | | | | | |
| PCB108 & 112 | PCB108_112 | pg/g | | | | | | | |
| PCB110 | 38380-03-9 | pg/g | | | | | | | |
| PCB111 & 115 | PCB111_115 | pg/g | | | | | | | |
| PCB113 | 68194-10-5 | pg/g | | | | | | | |
| PCB114 | 74472-37-0 | pg/g | | | | | | | |
| PCB119 | 56558-17-9 | pg/g | | | | | | | |
| PCB120 | 68194-12-7 | pg/g | | | | | | | |
| PCB121 | 56558-18-0 | pg/g | | | | | | | |
| PCB122 | 76842-07-4 | pg/g | | | | | | | |
| PCB123 | 65510-44-3 | pg/g | | | | | | | |
| PCB124 | 70424-70-3 | pg/g | | | | | | | |
| PCB126 | 57465-28-8 | pg/g | | | | | | | |
| PCB127 | 39635-33-1 | pg/g | | | | | | | |
| PCB128 & 162 | PCB128_162 | pg/g | | | | | | | |
| PCB129 | 55215-18-4 | pg/g | | | | | | | |
| PCB130 | 52663-66-8 | pg/g | | | | | | | |
| PCB131 | 61798-70-7 | pg/g | | | | | | | |
| PCB132 & 161 | PCB132_161 | pg/g | | | | | | | |
| PCB133 & 142 | PCB133_142 | pg/g | | | | | | | |
| PCB134 & 143 | PCB134_143 | pg/g | | | | | | | |
| PCB135 | 52744-13-5 | pg/g | | | | | | | |
| PCB136 | 38411-22-2 | pg/g | | | | | | | |
| PCB137 | 35694-06-5 | pg/g | | | | | | | |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | | | | | | | |
| PCB139 & 149 | PCB139_149 | pg/g | | | | | | | |
| PCB140 | 59291-64-4 | pg/g | | | | | | | |
| PCB141 | 52712-04-6 | pg/g | | | | | | | |
| PCB144 | 68194-14-9 | pg/g | | | | | | | |
| PCB145 | 74472-40-5 | pg/g | | | | | | | |
| PCB146 & 165 | PCB146_165 | pg/g | | | | | | | |
| PCB147 | 68194-13-8 | pg/g | | | | | | | |
| PCB148 | 74472-41-6 | pg/g | | | | | | | |
| PCB150 | 68194-08-1 | pg/g | | | | | | | |
| PCB151 | 52663-63-5 | pg/g | | | | | | | |
| PCB152 | 68194-09-2 | pg/g | | | | | | | |
| PCB153 | 35065-27-1 | pg/g | | | | | | | |
| PCB154 | 60145-22-4 | pg/g | | | | | | | |
| PCB155 | 33979-03-2 | pg/g | | | | | | | |
| PCB156 | 38380-08-4 | pg/g | | | | | | | |
| PCB157 | 69782-90-7 | pg/g | | | | | | | |
| PCB158 & 160 | PCB158_160 | pg/g | | | | | | | |
| PCB159 | 39635-35-3 | pg/g | | | | | | | |
| PCB166 | 41411-63-6 | pg/g | | | | | | | |
| PCB167 | 52663-72-6 | pg/g | | | | | | | |
| PCB168 | 59291-65-5 | pg/g | | | | | | | |
| PCB169 | 32774-16-6 | pg/g | | | | | | | |
| PCB170 | 35065-30-6 | pg/g | | | | | | | |
| PCB171 | 52663-71-5 | pg/g | | | | | | | |
| PCB172 | 52663-74-8 | pg/g | | | | | | | |
| PCB173 | 68194-16-1 | pg/g | | | | | | | |
| PCB174 | 38411-25-5 | pg/g | | | | | | | |
| PCB175 | 40186-70-7 | pg/g | | | | | | | |
| PCB176 | 52663-65-7 | pg/g | | | | | | | |
| PCB177 | 52663-70-4 | pg/g | | | | | | | |
| PCB178 | 52663-67-9 | pg/g | | | | | | | |
| PCB179 | 52663-64-6 | pg/g | | | | | | | |
| PCB180 | 35065-29-3 | pg/g | | | | | | | |
| PCB181 | 74472-47-2 | pg/g | | | | | | | |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-MC006-B | LW3-MC006-C | LW3-MC006-D | LW3-MC008-B | LW3-MC008-C | LW3-MC008-D | LW3-MC009-B |
|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 110 | 110 - 196 | 196 - 264 | 30 - 155 | 155 - 277 | 277 - 378 | 30 - 111 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | |
| PCB182 & 187 | PCB182_187 | pg/g | | | | | | | |
| PCB183 | 52663-69-1 | pg/g | | | | | | | |
| PCB184 | 74472-48-3 | pg/g | | | | | | | |
| PCB185 | 52712-05-7 | pg/g | | | | | | | |
| PCB186 | 74472-49-4 | pg/g | | | | | | | |
| PCB188 | 74487-85-7 | pg/g | | | | | | | |
| PCB189 | 39635-31-9 | pg/g | | | | | | | |
| PCB190 | 41411-64-7 | pg/g | | | | | | | |
| PCB191 | 74472-50-7 | pg/g | | | | | | | |
| PCB192 | 74472-51-8 | pg/g | | | | | | | |
| PCB193 | 69782-91-8 | pg/g | | | | | | | |
| PCB194 | 35694-08-7 | pg/g | | | | | | | |
| PCB195 | 52663-78-2 | pg/g | | | | | | | |
| PCB196 & 203 | PCB196_203 | pg/g | | | | | | | |
| PCB197 | 33091-17-7 | pg/g | | | | | | | |
| PCB198 | 68194-17-2 | pg/g | | | | | | | |
| PCB199 | 52663-75-9 | pg/g | | | | | | | |
| PCB200 | 52663-73-7 | pg/g | | | | | | | |
| PCB201 | 40186-71-8 | pg/g | | | | | | | |
| PCB202 | 2136-99-4 | pg/g | | | | | | | |
| PCB204 | 74472-52-9 | pg/g | | | | | | | |
| PCB205 | 74472-53-0 | pg/g | | | | | | | |
| PCB206 | 40186-72-9 | pg/g | | | | | | | |
| PCB207 | 52663-79-3 | pg/g | | | | | | | |
| PCB208 | 52663-77-1 | pg/g | | | | | | | |
| PCB209 | 2051-24-3 | pg/g | | | | | | | |
| Total PCB Congeners | 1336-36-3 | pg/g | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalent (ND = 0 | TEQ_PCB.0 | pg/g | | | | | | | |
| **PCB Homologs** | | | | | | | | | |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | | | | | | | |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | | | | | | | |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | | | | | | | |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | | | | | | | |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | | | | | | | |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | | | | | | | |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | | | | | | | |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 4.2 U |
| 2,4'-DDE | 3424-82-6 | ug/kg | 0.046 U | 0.046 U | 0.046 U | 0.12 U | 0.063 U | 0.046 U | 1.2 U |
| 2,4'-DDT | 789-02-6 | ug/kg | 0.061 U | 0.061 U | 0.061 U | 0.069 U | 0.061 U | 0.061 U | 7.4 |
| 4,4'-DDD | 72-54-8 | ug/kg | 0.073 U | 0.073 U | 0.12 U | 0.073 U | 0.073 U | 0.073 U | 14 |
| 4,4'-DDE | 72-55-9 | ug/kg | 0.027 U | 0.027 U | 0.18 U | 0.066 J | 0.027 U | 0.046 U | 12 NJ |
| 4,4'-DDT | 50-29-3 | ug/kg | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 7.3 U |
| Aldrin | 309-00-2 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.67 U |
| alpha-Endosulfan | 959-98-8 | ug/kg | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.037 U | 0.21 U |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | 0.65 J |
| beta-Endosulfan | 33213-65-9 | ug/kg | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.038 U | 0.031 U | 0.18 U |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 0.14 U | 0.14 U | 0.2 U | 0.14 U | 0.14 U | 0.45 U | 0.78 U |
| cis-Chlordane | 5103-71-9 | ug/kg | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.031 U | 0.36 U |
| cis-Nonachlor | 5103-73-1 | ug/kg | 0.087 U | 0.087 U | 0.087 U | 0.087 U | 0.087 U | 0.087 U | 6.1 U |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.62 U |
| Dieldrin | 60-57-1 | ug/kg | 0.16 NJ | 0.075 NJ | 0.03 U | 0.13 J | 0.17 J | 0.032 U | 1.2 U |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 0.058 U | 0.087 U | 0.058 U | 0.12 U | 0.058 U | 0.071 U | 1.2 U |
| Endrin | 72-20-8 | ug/kg | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 0.071 U | 1.2 U |
| Endrin aldehyde | 7421-93-4 | ug/kg | 0.042 U | 0.042 U | 0.042 U | 0.042 U | 0.06 J | 0.099 NJ | 0.24 U |
| Endrin ketone | 53494-70-5 | ug/kg | 0.029 U | 0.029 U | 0.029 U | 0.088 U | 0.029 U | 0.029 U | 1.9 U |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 0.14 U | 0.062 U | 0.3 U | 0.062 U | 0.062 U | 0.062 U | 0.59 J |
| Heptachlor | 76-44-8 | ug/kg | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 0.076 U | 1.2 U |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 2.1 U |
| Methoxychlor | 72-43-5 | ug/kg | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 0.075 U | 3.1 U |
| Mirex | 2385-85-5 | ug/kg | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.67 U |
| Oxychlordane | 27304-13-8 | ug/kg | 0.061 U | 0.061 U | 0.099 U | 0.061 U | 0.061 U | 0.061 U | 0.34 U |
| Total Chlordanes | TOTCHLDANE | ug/kg | 0.087 UT | 0.087 UT | 0.099 UT | 0.039 JT | 0.087 UT | 0.038 JT | 6.1 UT |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-MC006-B | LW3-MC006-C | LW3-MC006-D | LW3-MC008-B | LW3-MC008-C | LW3-MC008-D | LW3-MC009-B |
|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 110 | 110 - 196 | 196 - 264 | 30 - 155 | 155 - 277 | 277 - 378 | 30 - 111 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 0.058 UT | 0.087 UT | 0.058 UT | 0.12 UT | 0.058 UT | 0.071 UT | 1.2 UT |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 0.16 UT | 14 T |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 0.18 UT | 0.18 UT | 0.18 UT | 0.066 JT | 0.18 UT | 0.18 UT | 33 JT |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 0.046 UT | 0.046 UT | 0.18 UT | 0.066 JT | 0.063 UT | 0.046 UT | 12 JT |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 0.18 UT | 7.4 T |
| Toxaphene | 8001-35-2 | ug/kg | 3.4 U | 3.4 U | 3.4 U | 3.4 U | 3.4 U | 4.7 U | 220 U |
| trans-Chlordane | 5103-74-2 | ug/kg | 0.027 U | 0.027 U | 0.027 U | 0.039 NJ | 0.027 U | 0.038 J | 1.2 U |
| trans-Nonachlor | 39765-80-5 | ug/kg | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.034 U | 0.55 U |
| **Petroleum Hydrocarbons** | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 20.5 JT | 12 J | 1.9 J | 8.1 J | 7.2 J | 6.7 J | 600 J |
| Diesel Range Hydrocarbons, SGT | DRH | mg/kg | 12 UT | 8.3 U | 1.6 J | 4.9 U | 6.3 U | 5.2 J | 450 J |
| Residual Range Hydrocarbons | RRH | mg/kg | 67.5 JT | 56 J | 5.2 J | 57 J | 42 J | 23 J | 810 J |
| Residual Range Hydrocarbons, SGT | RRH | mg/kg | 30 T | 24 U | 3.7 J | 19 U | 15 U | 7.8 J | 440 J |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 88 JA | 68 JA | 7.1 JA | 65.1 JA | 49.2 JA | 29.7 JA | 1410 JA |
| Total Petroleum Hydrocarbons, SGT | TPH | mg/kg | 30 A | 24 UA | 5.3 JA | 19 UA | 15 UA | 13 JA | 890 JA |
| **Phenols** | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 0.31 U | 0.33 U | 0.28 U | 0.33 U | 0.33 U | 0.32 U | 1.7 U |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 0.25 U | 0.27 U | 0.26 U | 0.27 U | 0.27 U | 0.35 U | 0.38 U |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 0.79 U | 0.85 U | 6.5 U | 0.86 U | 0.85 U | 12 NJ | 1.3 U |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 0.16 U | 0.17 U | 0.34 U | 0.18 U | 0.17 U | 0.57 U | 0.25 U |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 12 U |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | R | R | 5.5 U | R | R | 5.5 U | R |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 17 UJ | 17 U | 17 U | 17 U | 17 U | 17 U | 190 U |
| 2-Chlorophenol | 95-57-8 | ug/kg | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 23 U |
| 2-Methylphenol | 95-48-7 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 17 U |
| 2-Nitrophenol | 88-75-5 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 17 U |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 1.4 UJ | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 16 U |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 16 U |
| 4-Methylphenol | 106-44-5 | ug/kg | 1.5 U | 2.1 J | 1.5 U | 1.5 U | 8.4 | 1.5 U | 56 J |
| 4-Nitrophenol | 100-02-7 | ug/kg | 18 U | 18 U | 18 U | 18 U | 18 U | 18 U | 210 U |
| Pentachlorophenol | 87-86-5 | ug/kg | 0.23 U | 0.25 U | 1.7 U | 0.25 U | 0.25 U | 1.9 U | 9.7 U |
| Phenol | 108-95-2 | ug/kg | 2 U | 2 U | 2 U | 2 U | 2 U | 9.6 J | 89 J |
| **Phthalates** | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 9.8 J | 7 U | 7.6 J | 18 | 8 J | 7 U | 110 J |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.8 J | 36 U |
| Dibutyl phthalate | 84-74-2 | ug/kg | 13 | 11 | 7.9 U | 13 | 8.8 | 7.9 U | 89 U |
| Diethyl phthalate | 84-66-2 | ug/kg | 1.9 J | 2.1 J | 1.3 J | 2.3 J | 1.8 J | 1.4 J | 15 U |
| Dimethyl phthalate | 131-11-3 | ug/kg | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 12 U |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 19 U |
| **SVOCs** | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 30 U |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 33 U |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 34 U |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 2.9 U | 33 U |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 1.5 U | 17 | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 17 U |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 23 U |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 18 U |
| 2-Nitroaniline | 88-74-4 | ug/kg | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 3.2 U | 36 U |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | R | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 3.7 U | 42 U |
| 3-Nitroaniline | 99-09-2 | ug/kg | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 28 U |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 18 U |
| 4-Chloroaniline | 106-47-8 | ug/kg | 1.9 UJ | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 22 U |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 16 U |
| 4-Nitroaniline | 100-01-6 | ug/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 21 U |
| Aniline | 62-53-3 | ug/kg | R | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 17 U |
| Azobenzene | 103-33-3 | ug/kg | 1.1 UJ | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 13 U |
| Benzoic acid | 65-85-0 | ug/kg | 96 UJ | 96 U | R | 96 U | 96 U | R | 1100 U |
| Benzyl alcohol | 100-51-6 | ug/kg | 6.8 J | 3.9 J | 2.1 U | 5.5 J | 3.3 J | 2.1 U | 24 U |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 17 U |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 22 U |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 2.6 U | 30 U |
| Carbazole | 86-74-8 | ug/kg | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 3.1 J | 1.3 U | 36 J |
| Dibenzofuran | 132-64-9 | ug/kg | 3.9 | 3.5 | 0.59 U | 0.59 U | 0.59 U | 0.59 U | 62 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.068 U | 0.097 U | 0.76 J |

Table 4-2 Analytical Results for Round 3B Subsurface Sediment Samples

| | | Sample ID | LW3-MC006-B | LW3-MC006-C | LW3-MC006-D | LW3-MC008-B | LW3-MC008-C | LW3-MC008-D | LW3-MC009-B |
|---|---|---|---|---|---|---|---|---|---|
| | | Depth Interval (cm) | 30 - 110 | 110 - 196 | 196 - 264 | 30 - 155 | 155 - 277 | 277 - 378 | 30 - 111 |
| **Chemical Name** | **CAS No** | **Unit** | | | | | | | |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 0.17 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.14 U | 0.78 U |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 29 U | 29 U | 29 U | 29 U | 29 U | 29 U | 330 U |
| Hexachloroethane | 67-72-1 | ug/kg | 0.16 U | 0.16 U | 0.17 U | 0.16 U | 0.16 U | 0.17 U | 0.9 U |
| Isophorone | 78-59-1 | ug/kg | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 12 U |
| Nitrobenzene | 98-95-3 | ug/kg | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 2.2 U | 25 U |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 6.1 UJ | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 6.1 U | 69 U |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 18 U |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 27 U |

**Notes:**
PAH - polycyclic aromatic hydrocarbon
PCB - polychlorinated biphenyl
SVOC - semivolatile organic compound

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This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Table 4-3. Summary Statistics for Round 3B Surface Sediment Samples

| | | | | | | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **N Detected** | **% Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| **PCB Aroclors** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 201 | 1 | 0.498 | 15 | 15 | 15 | 15 | | 0.73 U | 37 U | 6.17 | 1.6 | 23 |
| Aroclor 1221 | 11104-28-2 | ug/kg | 201 | 0 | 0 | | | | | | 0.73 U | 72 U | 3.55 | 1.5 | 9.5 |
| Aroclor 1232 | 11141-16-5 | ug/kg | 201 | 1 | 0.498 | 21 NJ | 21 NJ | 21 | 21 | | 0.73 U | 69 U | 9.35 | 4.5 | 33 |
| Aroclor 1242 | 53469-21-9 | ug/kg | 201 | 20 | 9.95 | 2.1 J | 190 | 24.9 | 10.4 | 75.1 | 0.73 U | 190 | 6.74 | 2.9 | 18 |
| Aroclor 1248 | 12672-29-6 | ug/kg | 201 | 0 | 0 | | | | | | 0.73 U | 22 U | 2.41 | 1.4 | 8.2 |
| Aroclor 1254 | 11097-69-1 | ug/kg | 201 | 129 | 64.2 | 1.3 J | 110 T | 12.8 | 7.4 | 41.6 | 0.73 U | 110 T | 10.2 | 6.1 | 32 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 201 | 153 | 76.1 | 1.3 NJ | 1300 | 26.4 | 7.3 | 74 | 0.73 U | 1300 | 20.8 | 6.3 | 60 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 201 | 0 | 0 | | | | | | 0.73 U | 13 U | 1.68 | 1.4 | 3.4 |
| Aroclor 1268 | 11100-14-4 | ug/kg | 201 | 2 | 0.995 | 8.2 | 16 NJT | 12.1 | 12.1 | 15.6 | 0.73 U | 16 NJT | 1.67 | 1.4 | 1.7 |
| Aroclors | 12767-79-2 | ug/kg | 201 | 153 | 76.1 | 1.7 JT | 1300 T | 40.9 | 14.8 | 160 | 0.73 UT | 1300 T | 33.9 | 14 | 123 |
| **Conventionals** | | | | | | | | | | | | | | | |
| Ammonia | 7664-41-7 | mg/kg | 92 | 91 | 98.9 | 0.26 J | 171 | 75.6 | 79.5 | 120 | 0.07 U | 171 | 74.8 | 79.5 | 120 |
| Specific Gravity | SPEC_GRAV | NA | 201 | 201 | 100 | 0.87 | 2.43 | 1.53 | 1.49 | 1.92 | 0.87 | 2.43 | 1.53 | 1.49 | 1.92 |
| Sulfide | 18496-25-8 | mg/kg | 95 | 58 | 61.1 | 0.7 J | 552 | 15.8 | 4.85 | 19.2 | 0.2 UJ | 552 | 9.8 | 1.9 | 15.1 |
| Total organic carbon | TOC | percent | 201 | 201 | 100 | 0.05 J | 2.98 | 1.5 | 1.57 | 2.29 | 0.05 J | 2.98 | 1.5 | 1.57 | 2.29 |
| Total solids | TSO | percent | 201 | 201 | 100 | 33.1 | 93.6 | 52.5 | 49.7 | 11.1 | 33.1 | 93.6 | 52.5 | 49.7 | 11.1 |
| **Dioxins/Furans** | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 50 | 50 | 100 | 0.248 J | 116 | 4.45 | 1.91 | 5.45 | 0.248 J | 116 | 4.45 | 1.91 | 5.45 |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 50 | 50 | 100 | 0.985 J | 1270 | 40.4 | 10.7 | 39.5 | 0.985 J | 1270 | 40.4 | 10.7 | 39.5 |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 50 | 31 | 62 | 0.1 J | 7.43 | 0.519 | 0.241 | 0.91 | 0.0153 U | 7.43 | 0.349 | 0.153 | 0.721 |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 50 | 43 | 86 | 0.0483 J | 15 | 1.17 | 0.346 | 2.83 | 0.00976 U | 15 | 1.01 | 0.262 | 2.61 |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 50 | 30 | 60 | 0.0651 JT | 0.314 J | 0.133 | 0.108 | 0.243 | 0.0189 U | 7.18 U | 0.251 | 0.0985 | 0.292 |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 50 | 37 | 74 | 0.0306 J | 8.08 | 0.529 | 0.174 | 1.39 | 0.0102 U | 8.08 | 0.406 | 0.139 | 0.912 |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 50 | 46 | 92 | 0.131 J | 79.3 | 2.38 | 0.519 | 1.85 | 0.0314 U | 79.3 | 2.2 | 0.512 | 1.85 |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 50 | 3 | 6 | 0.047 J | 0.786 J | 0.36 | 0.247 | 0.732 | 0.0102 U | 0.786 J | 0.052 | 0.0301 | 0.0908 |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 50 | 43 | 86 | 0.0865 J | 23.3 | 0.959 | 0.313 | 1.06 | 0.0182 U | 23.3 | 0.841 | 0.307 | 1.04 |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 50 | 33 | 66 | 0.0388 JT | 14.2 | 0.862 | 0.185 | 2.8 | 0.00417 U | 14.2 | 0.576 | 0.0865 | 1.73 |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 50 | 25 | 50 | 0.0281 J | 4.65 | 0.302 | 0.108 | 0.245 | 0.00988 U | 4.65 | 0.173 | 0.0774 | 0.241 |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 50 | 30 | 60 | 0.0326 J | 11.7 | 0.608 | 0.186 | 0.682 | 0.0118 U | 11.7 | 0.392 | 0.145 | 0.567 |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 50 | 33 | 66 | 0.052 J | 3.68 | 0.393 | 0.122 | 1.91 | 0.0052 U | 3.68 | 0.273 | 0.0991 | 0.704 |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 50 | 28 | 56 | 0.105 J | 3.47 | 0.601 | 0.243 | 2.77 | 0.0152 U | 3.47 | 0.372 | 0.156 | 1.45 |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 50 | 1 | 2 | 0.881 | 0.881 | 0.881 | 0.881 | | 0.0036 U | 0.881 | 0.0419 | 0.0161 | 0.0915 |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 50 | 50 | 100 | 0.016 JT | 38.2 JT | 1.35 | 0.396 | 1.7 | 0.016 JT | 38.2 JT | 1.35 | 0.396 | 1.7 |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 85 | 85 | 100 | 0.000674 JA | 39.3 JT | 1.42 | 0.463 | 3.7 | 0.000674 JA | 39.3 JT | 1.42 | 0.463 | 3.7 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 50 | 50 | 100 | 0.81 J | 418 | 15.9 | 6.85 | 21.8 | 0.81 J | 418 | 15.9 | 6.85 | 21.8 |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 50 | 50 | 100 | 1.89 J | 2380 | 81.5 | 22.3 | 94.6 | 1.89 J | 2380 | 81.5 | 22.3 | 94.6 |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 50 | 50 | 100 | 0.11 J | 328 | 10.6 | 3.06 | 13.8 | 0.11 J | 328 | 10.6 | 3.06 | 13.8 |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 50 | 49 | 98 | 0.0866 J | 331 | 11.6 | 3.62 | 13.8 | 0.0311 U | 331 | 11.4 | 3.57 | 13.8 |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 50 | 50 | 100 | 0.897 J | 237 | 14.7 | 8.31 | 30.7 | 0.897 J | 237 | 14.7 | 8.31 | 30.7 |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 50 | 50 | 100 | 9.65 | 11100 J | 367 | 106 | 418 | 9.65 | 11100 J | 367 | 106 | 418 |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 50 | 48 | 96 | 0.121 J | 96.5 | 4.31 | 1.54 | 8.04 | 0.00787 U | 96.5 | 4.14 | 1.41 | 7.96 |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 50 | 39 | 78 | 0.0281 J | 42.8 | 1.65 | 0.445 | 2.08 | 0.00988 U | 42.8 | 1.29 | 0.278 | 1.65 |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 50 | 46 | 92 | 0.0886 J | 23.5 | 1.64 | 0.765 | 5.37 | 0.00701 U | 23.5 | 1.51 | 0.667 | 5.26 |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 50 | 47 | 94 | 0.0403 J | 13.3 | 0.796 | 0.452 | 1.18 | 0.0135 U | 13.3 | 0.749 | 0.444 | 1.17 |
| Total PCDD/F | TOTPCDD_F | pg/g | 50 | 50 | 100 | 14.7 JT | 15000 JT | 509 | 153 | 605 | 14.7 JT | 15000 JT | 509 | 153 | 605 |
| **Grain Size** | | | | | | | | | | | | | | | |
| >9 Phi clay | GS_MFCLAY | percent | 201 | 201 | 100 | 0.01 | 14.9 | 3.92 | 3.87 | 7.54 | 0.01 | 14.9 | 3.92 | 3.87 | 7.54 |
| 8-9 Phi clay | GS_CCLAY | percent | 201 | 201 | 100 | 0.0433 T | 11.7 | 2.99 | 2.85 | 6.46 | 0.0433 T | 11.7 | 2.99 | 2.85 | 6.46 |
| Coarse sand | GS_CS | percent | 201 | 201 | 100 | 0.25 | 51.9 | 4.91 | 1.01 | 26 | 0.25 | 51.9 | 4.91 | 1.01 | 26 |

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Table 4-3. Summary Statistics for Round 3B Surface Sediment Samples

| | | | | | | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **N Detected** | **% Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| Coarse silt | GS_CSILT | percent | 201 | 201 | 100 | 0.15 | 63.3 | 22.1 | 22.4 | 42.5 | 0.15 | 63.3 | 22.1 | 22.4 | 42.5 |
| Fine gravel | GS_FG | percent | 201 | 201 | 100 | | 19.7 T | 1.44 | 0.67 | 4.5 | 0 | 19.7 T | 1.44 | 0.67 | 4.5 |
| Fine sand | GS_FS | percent | 201 | 201 | 100 | 0.86 | 58.7 | 13.4 | 10.2 | 36.9 | 0.86 | 58.7 | 13.4 | 10.2 | 36.9 |
| Fine silt | GS_FSILT | percent | 201 | 201 | 100 | 0.13 | 30.1 | 6.5 | 6.49 | 12.4 | 0.13 | 30.1 | 6.5 | 6.49 | 12.4 |
| Fines | GS_FINES | percent | 201 | 201 | 100 | 0.76 T | 95.9 T | 50 | 55.4 | 84.7 | 0.76 T | 95.9 T | 50 | 55.4 | 84.7 |
| Medium gravel | GS_MG | percent | 201 | 201 | 100 | | 49.2 | 1.45 | 0.19 | 4.82 | 0 | 49.2 | 1.45 | 0.19 | 4.82 |
| Medium sand | GS_MS | percent | 201 | 201 | 100 | 0.39 | 69.6 | 12.3 | 3.57 | 53.1 | 0.39 | 69.6 | 12.3 | 3.57 | 53.1 |
| Medium silt | GS_MSILT | percent | 201 | 201 | 100 | 0.1 | 26 | 10.7 | 10.9 | 20.8 | 0.1 | 26 | 10.7 | 10.9 | 20.8 |
| Very coarse sand | GS_VCS | percent | 201 | 201 | 100 | 0.08 | 14.1 | 1.38 | 0.84 | 4.7 | 0.08 | 14.1 | 1.38 | 0.84 | 4.7 |
| Very fine sand | GS_VFS | percent | 201 | 201 | 100 | 0.24 T | 49.1 T | 16.7 | 16.9 | 33.5 | 0.24 T | 49.1 T | 16.7 | 16.9 | 33.5 |
| Very fine silt | GS_VFSILT | percent | 201 | 201 | 100 | 0.01 | 10.7 | 3.71 | 3.55 | 7.13 | 0.01 | 10.7 | 3.71 | 3.55 | 7.13 |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 201 | 201 | 100 | 1950 | 35100 | 24600 | 26900 | 33200 | 1950 | 35100 | 24600 | 26900 | 33200 |
| Antimony | 7440-36-0 | mg/kg | 201 | 201 | 100 | 0.08 J | 2.02 J | 0.344 | 0.31 | 0.76 | 0.08 J | 2.02 J | 0.344 | 0.31 | 0.76 |
| Arsenic | 7440-38-2 | mg/kg | 201 | 201 | 100 | 1.02 | 8.1 JT | 3.34 | 3.28 | 4.85 | 1.02 | 8.1 JT | 3.34 | 3.28 | 4.85 |
| Cadmium | 7440-43-9 | mg/kg | 201 | 191 | 95 | 0.043 | 1.06 | 0.193 | 0.18 | 0.334 | 0.025 U | 1.06 | 0.185 | 0.178 | 0.331 |
| Chromium | 7440-47-3 | mg/kg | 201 | 201 | 100 | 6.91 | 35.8 | 24.2 | 26.2 | 32.1 | 6.91 | 35.8 | 24.2 | 26.2 | 32.1 |
| Copper | 7440-50-8 | mg/kg | 201 | 201 | 100 | 4.37 | 180 | 33.4 | 33.6 | 48.1 | 4.37 | 180 | 33.4 | 33.6 | 48.1 |
| Lead | 7439-92-1 | mg/kg | 201 | 201 | 100 | 2.1 | 179 | 12.5 | 10.6 | 24 | 2.1 | 179 | 12.5 | 10.6 | 24 |
| Mercury | 7439-97-6 | mg/kg | 201 | 201 | 100 | 0.007 J | 0.316 | 0.0632 | 0.055 | 0.132 | 0.007 J | 0.316 | 0.0632 | 0.055 | 0.132 |
| Nickel | 7440-02-0 | mg/kg | 201 | 201 | 100 | 4.75 | 26.9 J | 21 | 22.1 | 25.5 | 4.75 | 26.9 J | 21 | 22.1 | 25.5 |
| Silver | 7440-22-4 | mg/kg | 201 | 201 | 100 | 0.0345 T | 1.7 T | 0.186 | 0.17 | 0.37 | 0.0345 T | 1.7 T | 0.186 | 0.17 | 0.37 |
| Zinc | 7440-66-6 | mg/kg | 201 | 201 | 100 | 9.7 | 249 | 97.9 | 97.3 | 146 | 9.7 | 249 | 97.9 | 97.3 | 146 |
| **PAHs** | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 201 | 195 | 97 | 0.32 J | 4100 | 39.2 | 1.8 | 43.3 | 0.31 U | 4100 | 38 | 1.6 | 43 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 201 | 199 | 99 | 0.4 J | 1400 | 22.6 | 2.6 | 58.2 | 0.39 U | 1400 | 22.3 | 2.5 | 58 |
| Acenaphthene | 83-32-9 | ug/kg | 201 | 187 | 93 | 0.28 J | 19000 | 228 | 3.5 | 217 | 0.23 U | 19000 | 212 | 3.2 | 210 |
| Acenaphthylene | 208-96-8 | ug/kg | 201 | 199 | 99 | 0.27 J | 4000 | 40.1 | 3.2 | 87.1 | 0.24 U | 4000 | 39.7 | 3.1 | 87 |
| Anthracene | 120-12-7 | ug/kg | 201 | 187 | 93 | 0.65 J | 28000 | 280 | 8.6 | 174 | 0.47 U | 28000 | 261 | 7.1 | 160 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 201 | 199 | 99 | 0.61 J | 32000 | 351 | 25 | 590 | 0.48 U | 32000 | 348 | 23 | 570 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 201 | 199 | 99 | 0.53 J | 41000 | 437 | 27 | 876 | 0.14 U | 41000 | 433 | 27 | 840 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 201 | 199 | 99 | 0.45 J | 37000 | 413 | 38 | 1020 | 0.25 U | 37000 | 409 | 36 | 1000 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 201 | 199 | 99 | 0.37 J | 22000 J | 259 | 22 | 654 | 0.18 U | 22000 J | 257 | 21 | 650 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 201 | 199 | 99 | 1.6 J | 31000 | 335 | 25 | 690 | 0.64 U | 31000 | 332 | 24 | 670 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 201 | 199 | 99 | 0.19 J | 9700 | 120 | 12 | 293 | 0.15 U | 9700 | 119 | 11 | 290 |
| C1-Chrysene | C1_218-01-9 | ug/kg | 201 | 200 | 99.5 | 0.57 J | 12000 | 212 | 32.5 | 401 | 0.25 U | 12000 | 211 | 32 | 400 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 201 | 179 | 89.1 | 0.54 J | 2100 | 29.1 | 3.7 | 54.2 | 0.21 U | 2100 | 25.9 | 3.2 | 45 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 201 | 200 | 99.5 | 1.2 J | 27000 J | 397 | 32.5 | 661 | 0.61 U | 27000 J | 395 | 32 | 660 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 201 | 197 | 98 | 0.58 J | 12000 | 112 | 3.4 | 69.8 | 0.5 U | 12000 | 110 | 3.3 | 65 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 201 | 199 | 99 | 1.3 J | 70000 J | 604 | 18 | 506 | 0.75 U | 70000 J | 598 | 18 | 490 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 201 | 197 | 98 | 1.4 J | 8700 | 117 | 20 | 244 | 0.25 U | 8700 | 115 | 19 | 240 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 201 | 190 | 94.5 | 0.78 J | 15000 | 136 | 7.3 | 142 | 0.21 U | 15000 | 129 | 6.9 | 120 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 201 | 199 | 99 | 1.7 J | 14000 | 177 | 22 | 311 | 0.61 U | 14000 | 176 | 22 | 310 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 201 | 199 | 99 | 0.55 J | 12000 | 109 | 6.1 | 116 | 0.5 U | 12000 | 107 | 6.1 | 110 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 201 | 200 | 99.5 | 0.49 J | 27000 J | 221 | 4.35 | 151 | 0.37 U | 27000 J | 220 | 4.3 | 150 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 201 | 199 | 99 | 1.7 J | 44000 J | 377 | 22 | 378 | 0.75 U | 44000 J | 373 | 21 | 360 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 201 | 191 | 95 | 2.6 | 4400 | 68.9 | 17 | 145 | 0.25 U | 4400 | 65.5 | 16 | 130 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 201 | 187 | 93 | 0.78 J | 8000 | 86.3 | 7.8 | 164 | 0.21 U | 8000 | 80.3 | 7.3 | 150 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 201 | 195 | 97 | 1.5 J | 8800 | 102 | 15 | 193 | 0.61 U | 8800 | 98.8 | 14 | 190 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 201 | 187 | 93 | 1.8 J | 11000 | 119 | 9.5 | 189 | 0.5 U | 11000 | 111 | 8.8 | 140 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 201 | 199 | 99 | 0.47 J | 21000 J | 184 | 4.6 | 173 | 0.37 U | 21000 J | 182 | 4.4 | 170 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 201 | 199 | 99 | 1.6 J | 23000 J | 215 | 23 | 292 | 0.75 U | 23000 J | 213 | 22 | 280 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 201 | 105 | 52.2 | 2.5 | 2000 | 51.8 | 14 | 105 | 0.25 U | 2000 | 27.2 | 4.8 | 66 |

Table 4-3. Summary Statistics for Round 3B Surface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 201 | 192 | 95.5 | 0.75 J | 9900 | 101 | 6.15 | 128 | 0.37 U | 9900 | 96.9 | 6 | 110 |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 201 | 188 | 93.5 | 1.9 J | 6500 | 80.5 | 12 | 127 | 0.75 U | 6500 | 75.4 | 12 | 120 |
| Chrysene | 218-01-9 | ug/kg | 201 | 199 | 99 | 0.42 J | 39000 | 428 | 36 | 802 | 0.25 U | 39000 | 424 | 33 | 790 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 201 | 193 | 96 | 0.4 J | 3500 | 42 | 4 | 104 | 0.28 U | 3500 | 40.4 | 3.6 | 100 |
| Dibenzothiophene | 132-65-0 | ug/kg | 201 | 182 | 90.5 | 0.25 J | 11000 | 143 | 2.7 | 99.9 | 0.21 U | 11000 | 130 | 1.8 | 97 |
| Fluoranthene | 206-44-0 | ug/kg | 201 | 200 | 99.5 | 1 J | 100000 | 1000 | 57 | 1520 | 0.61 U | 100000 | 995 | 56 | 1500 |
| Fluorene | 86-73-7 | ug/kg | 201 | 195 | 97 | 0.56 J | 10000 | 136 | 3.3 | 173 | 0.5 U | 10000 | 132 | 3.3 | 170 |
| High Molecular Weight PAH | HPAH | ug/kg | 201 | 200 | 99.5 | 4.3 JT | 440000 T | 4590 | 300 | 8560 | 0.64 UT | 440000 T | 4560 | 300 | 8500 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 201 | 199 | 99 | 0.25 J | 29000 | 315 | 22 | 699 | 0.16 U | 29000 | 311 | 22 | 680 |
| Low Molecular Weight PAH | LPAH | ug/kg | 201 | 201 | 100 | 0.44 JT | 160000 T | 1900 | 52 | 1400 | 0.44 JT | 160000 T | 1900 | 52 | 1400 |
| Naphthalene | 91-20-3 | ug/kg | 201 | 189 | 94 | 0.81 J | 1800 | 46 | 9.9 | 146 | 0.73 U | 1800 | 43.4 | 9.3 | 140 |
| Perylene | 198-55-0 | ug/kg | 201 | 199 | 99 | 0.49 J | 9700 | 124 | 26 | 300 | 0.32 U | 9700 | 123 | 26 | 300 |
| Phenanthrene | 85-01-8 | ug/kg | 201 | 186 | 92.5 | 2.3 J | 95000 | 1260 | 26 | 1390 | 0.75 U | 95000 | 1170 | 25 | 760 |
| Pyrene | 129-00-0 | ug/kg | 201 | 199 | 99 | 0.82 J | 120000 | 1200 | 58 | 1920 | 0.37 U | 120000 | 1190 | 57 | 1900 |
| Total PAHs | 130498-29-2 | ug/kg | 201 | 201 | 100 | 3.6 T | 600000 T | 6470 | 360 | 9000 | 3.6 T | 600000 T | 6470 | 360 | 9000 |
| **PCB Congeners** | | | | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equiva | TEQ_PCB.0 | pg/g | 70 | 70 | 100 | 0.000674 JT | 17.6 JT | 0.757 | 0.296 | 2.64 | 0.000674 JT | 17.6 JT | 0.757 | 0.296 | 2.64 |
| PCB001 | 2051-60-7 | pg/g | 70 | 39 | 55.7 | 4.53 J | 4070 | 133 | 8.71 | 129 | 4.53 J | 4070 | 76.6 | 6.03 | 62 |
| PCB002 | 2051-61-8 | pg/g | 70 | 56 | 80 | 5.03 | 127 | 17 | 13.1 | 32.6 | 4.64 U | 127 | 14.7 | 11.4 | 31.1 |
| PCB003 | 2051-62-9 | pg/g | 70 | 43 | 61.4 | 5 | 823 | 40 | 8.29 | 92.2 | 4.74 U | 823 | 26.9 | 6.44 | 64.7 |
| PCB004 & 010 | PCB004_010 | pg/g | 70 | 43 | 61.4 | 11.2 | 20800 | 649 | 39.2 | 1600 | 9.48 U | 20800 | 404 | 23.5 | 587 |
| PCB005 & 008 | PCB005_008 | pg/g | 70 | 57 | 81.4 | 11.1 | 30200 | 706 | 49.6 | 975 | 9.48 U | 30200 | 577 | 40.5 | 678 |
| PCB006 | 25569-80-6 | pg/g | 70 | 31 | 44.3 | 9.83 J | 5380 | 263 | 19.7 | 780 | 9.48 U | 5380 | 123 | 11.2 | 209 |
| PCB007 & 009 | PCB007_009 | pg/g | 70 | 13 | 18.6 | 6.83 J | 1740 | 185 | 34.6 | 809 | 6.83 J | 1740 | 43.8 | 9.93 | 62.3 |
| PCB011 | 2050-67-1 | pg/g | 70 | 68 | 97.1 | 13.5 | 386 | 136 | 137 | 235 | 13.5 | 386 | 134 | 135 | 234 |
| PCB012 & 013 | PCB012_013 | pg/g | 70 | 18 | 25.7 | 9.73 | 1400 | 119 | 23 | 358 | 9.28 U | 1400 | 39.2 | 9.97 | 60.4 |
| PCB014 | 34883-41-5 | pg/g | 70 | 0 | 0 | | | | | | 9.28 U | 99.2 U | 13.9 | 9.89 | 25 |
| PCB015 | 2050-68-2 | pg/g | 70 | 59 | 84.3 | 10.6 | 7170 | 241 | 53.5 | 874 | 9.48 U | 7170 | 205 | 44.7 | 660 |
| PCB016 & 032 | PCB016_032 | pg/g | 70 | 68 | 97.1 | 6.43 | 15300 | 418 | 50.5 | 1390 | 4.97 U | 15300 | 406 | 49.6 | 1280 |
| PCB017 | 37680-66-3 | pg/g | 70 | 64 | 91.4 | 5.88 | 12300 | 340 | 45.3 | 1000 | 4.74 U | 12300 | 311 | 38.7 | 964 |
| PCB018 | 37680-65-2 | pg/g | 70 | 69 | 98.6 | 7.86 | 22600 | 540 | 67.3 | 888 | 4.97 U | 22600 | 532 | 66.2 | 886 |
| PCB019 | 38444-73-4 | pg/g | 70 | 55 | 78.6 | 5.22 | 3950 | 268 | 36.1 | 1690 | 4.74 U | 3950 | 212 | 31.7 | 706 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 70 | 69 | 98.6 | 7.37 | 18900 | 468 | 68.5 | 804 | 4.97 U | 18900 | 462 | 67.3 | 795 |
| PCB022 | 38444-85-8 | pg/g | 70 | 67 | 95.7 | 5.08 | 11000 | 281 | 44.5 | 629 | 4.95 U | 11000 | 270 | 43.5 | 581 |
| PCB023 | 55720-44-0 | pg/g | 70 | 1 | 1.43 | 40.9 | 40.9 | 40.9 | 40.9 | | 4.64 U | 49.6 U | 7.35 | 4.95 | 12.5 |
| PCB024 & 027 | PCB024_027 | pg/g | 70 | 43 | 61.4 | 5.48 | 2030 | 101 | 14 | 367 | 4.74 U | 2030 | 64.5 | 10 | 296 |
| PCB025 | 55712-37-3 | pg/g | 70 | 61 | 87.1 | 4.96 | 3160 | 110 | 19.5 | 378 | 4.74 U | 3160 | 96.6 | 17.5 | 303 |
| PCB026 | 38444-81-4 | pg/g | 70 | 64 | 91.4 | 6.45 | 5130 | 164 | 28.9 | 620 | 4.74 U | 5130 | 151 | 25.9 | 579 |
| PCB028 | 7012-37-5 | pg/g | 70 | 70 | 100 | 6.29 | 27300 | 872 | 148 | 1870 | 6.29 | 27300 | 872 | 148 | 1870 |
| PCB029 | 15862-07-4 | pg/g | 70 | 5 | 7.14 | 5.31 | 315 | 74.2 | 15.9 | 257 | 4.64 U | 315 | 11.8 | 4.95 | 21.5 |
| PCB030 | 35693-92-6 | pg/g | 70 | 2 | 2.86 | 8.69 | 20.4 | 14.5 | 14.5 | 19.8 | 4.74 U | 49.6 U | 7.11 | 4.95 | 12.5 |
| PCB031 | 16606-02-3 | pg/g | 70 | 69 | 98.6 | 12 | 27400 | 723 | 114 | 2090 | 4.97 U | 27400 | 713 | 114 | 2030 |
| PCB034 | 37680-68-5 | pg/g | 70 | 11 | 15.7 | 5.3 J | 126 | 31.4 | 17.4 | 104 | 4.74 U | 126 | 9.68 | 4.96 | 21.7 |
| PCB035 | 37680-69-6 | pg/g | 70 | 26 | 37.1 | 5.01 | 381 | 28.6 | 8.58 | 64.7 | 4.64 U | 381 | 14.3 | 5.02 | 28.3 |
| PCB036 | 38444-87-0 | pg/g | 70 | 1 | 1.43 | 5.33 | 5.33 | 5.33 | 5.33 | | 4.64 U | 49.6 U | 6.84 | 4.95 | 12.2 |
| PCB037 | 38444-90-5 | pg/g | 70 | 68 | 97.1 | 6.09 | 7760 | 226 | 54.1 | 471 | 4.97 U | 7760 | 220 | 53.7 | 465 |
| PCB038 | 53555-66-1 | pg/g | 70 | 19 | 27.1 | 4.97 | 1350 | 99.9 | 18.6 | 243 | 4.74 U | 1350 | 31.3 | 4.98 | 60.5 |
| PCB039 | 38444-88-1 | pg/g | 70 | 9 | 12.9 | 5.56 | 36.6 | 15 | 12.4 | 30.3 | 4.64 U | 36.6 | 6.8 | 4.96 | 15 |
| PCB040 | 38444-93-8 | pg/g | 70 | 59 | 84.3 | 6.4 | 3380 | 120 | 27.5 | 242 | 4.74 U | 3380 | 103 | 24.9 | 229 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 70 | 70 | 100 | 6.52 | 15100 | 721 | 149 | 2120 | 6.52 | 15100 | 721 | 149 | 2120 |
| PCB042 & 059 | PCB042_059 | pg/g | 70 | 67 | 95.7 | 4.93 | 5860 | 259 | 50.9 | 567 | 4.93 | 5860 | 248 | 50.2 | 560 |
| PCB043 & 049 | PCB043_049 | pg/g | 70 | 70 | 100 | 5.2 | 34400 | 1350 | 174 | 5980 | 5.2 | 34400 | 1350 | 174 | 5980 |
| PCB044 | 41464-39-5 | pg/g | 70 | 69 | 98.6 | 6.44 | 13300 | 589 | 162 | 1800 | 6.44 | 13300 | 581 | 161 | 1790 |

Table 4-3. Summary Statistics for Round 3B Surface Sediment Samples

| | | | | | | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **N Detected** | **% Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| PCB045 | 70362-45-7 | pg/g | 70 | 61 | 87.1 | 5.15 | 2650 | 95.6 | 19.9 | 232 | 4.74 U | 2650 | 84.2 | 17 | 209 |
| PCB046 | 41464-47-5 | pg/g | 70 | 51 | 72.9 | 5.25 | 1080 | 85.5 | 15.1 | 474 | 4.74 U | 1080 | 64 | 10.5 | 284 |
| PCB047 | 2437-79-8 | pg/g | 70 | 66 | 94.3 | 4.97 | 54600 | 1240 | 115 | 2840 | 4.95 U | 54600 | 1170 | 109 | 2660 |
| PCB048 & 075 | PCB048_075 | pg/g | 70 | 64 | 91.4 | 6.2 | 3970 | 171 | 31.4 | 379 | 4.74 U | 3970 | 157 | 28.7 | 360 |
| PCB050 | 62796-65-0 | pg/g | 70 | 14 | 20 | 5.57 | 227 | 45.7 | 13 | 207 | 4.74 U | 227 | 14.3 | 4.98 | 40.5 |
| PCB051 | 68194-04-7 | pg/g | 70 | 54 | 77.1 | 5.35 | 10400 | 376 | 36.6 | 1600 | 4.74 U | 10400 | 291 | 29.7 | 1430 |
| PCB052 & 069 | PCB052_069 | pg/g | 70 | 70 | 100 | 8.42 | 22200 | 1220 | 234 | 7570 | 8.42 | 22200 | 1220 | 234 | 7570 |
| PCB053 | 41464-41-9 | pg/g | 70 | 66 | 94.3 | 5.54 | 11600 | 513 | 46.9 | 2530 | 4.74 U | 11600 | 484 | 43.8 | 2390 |
| PCB054 | 15968-05-5 | pg/g | 70 | 40 | 57.1 | 4.97 | 1040 | 84.6 | 9.67 | 406 | 4.74 U | 1040 | 51.7 | 7.78 | 192 |
| PCB055 | 74338-24-2 | pg/g | 70 | 23 | 32.9 | 4.98 | 766 | 74.2 | 14.4 | 356 | 4.74 U | 766 | 28.3 | 5 | 83.7 |
| PCB056 & 060 | PCB056_060 | pg/g | 70 | 68 | 97.1 | 9.03 | 10300 | 361 | 99.2 | 1030 | 4.97 U | 10300 | 351 | 98.5 | 1020 |
| PCB057 | 70424-67-8 | pg/g | 70 | 12 | 17.1 | 6.45 J | 122 | 41.9 | 16.6 | 111 | 4.74 U | 122 | 11.9 | 4.97 | 45.1 |
| PCB058 | 41464-49-7 | pg/g | 70 | 11 | 15.7 | 5.29 | 51 | 20.5 | 18.4 | 44.9 | 4.64 U | 51 | 7.96 | 4.96 | 24.8 |
| PCB061 & 070 | PCB061_070 | pg/g | 70 | 70 | 100 | 8.12 | 14000 | 744 | 235 | 2810 | 8.12 | 14000 | 744 | 235 | 2810 |
| PCB062 | 54230-22-7 | pg/g | 70 | 1 | 1.43 | 10.7 | 10.7 | 10.7 | 10.7 | | 4.64 U | 49.6 U | 6.92 | 4.95 | 12.2 |
| PCB063 | 74472-34-7 | pg/g | 70 | 43 | 61.4 | 2.38 J | 751 | 53.2 | 10.7 | 230 | 2.38 J | 751 | 35.1 | 7.56 | 88.6 |
| PCB065 | 33284-54-7 | pg/g | 70 | 1 | 1.43 | 18.3 | 18.3 | 18.3 | 18.3 | | 4.64 U | 49.6 U | 7.03 | 4.95 | 12.5 |
| PCB066 & 076 | PCB066_076 | pg/g | 70 | 70 | 100 | 6.49 | 18600 | 827 | 193 | 2330 | 6.49 | 18600 | 827 | 193 | 2330 |
| PCB067 | 73575-53-8 | pg/g | 70 | 38 | 54.3 | 5.45 | 701 | 38.1 | 9.94 | 79.7 | 4.74 U | 701 | 23.5 | 6.6 | 49.7 |
| PCB068 | 73575-52-7 | pg/g | 70 | 20 | 28.6 | 5.77 | 1970 | 136 | 20.9 | 232 | 4.74 U | 1970 | 42.9 | 5 | 83.8 |
| PCB073 | 74338-23-1 | pg/g | 70 | 15 | 21.4 | 5.14 T | 690 | 82.4 | 14.2 | 463 | 4.74 U | 690 | 22.7 | 4.98 | 25.8 |
| PCB074 | 32690-93-0 | pg/g | 70 | 69 | 98.6 | 7.43 | 7110 | 287 | 86.9 | 906 | 4.97 U | 7110 | 283 | 83.6 | 904 |
| PCB077 | 32598-13-3 | pg/g | 70 | 57 | 81.4 | 7.52 | 1250 | 69.6 | 24.2 | 206 | 1.79 U | 1250 | 57.8 | 21.8 | 194 |
| PCB078 | 70362-49-1 | pg/g | 70 | 2 | 2.86 | 6.23 | 7.28 | 6.76 | 6.76 | 7.23 | 4.64 U | 49.6 U | 6.89 | 4.95 | 12.2 |
| PCB079 | 41464-48-6 | pg/g | 70 | 34 | 48.6 | 5.25 | 620 | 44.7 | 9.36 | 110 | 4.74 U | 620 | 24.8 | 5.57 | 90.5 |
| PCB080 | 33284-52-5 | pg/g | 70 | 1 | 1.43 | 5.38 | 5.38 | 5.38 | 5.38 | | 4.64 U | 49.6 U | 6.84 | 4.95 | 12.2 |
| PCB081 | 70362-50-4 | pg/g | 70 | 36 | 51.4 | 0.501 J | 45.3 | 4.86 | 1.76 | 18.2 | 0.371 U | 45.3 | 3.26 | 1.38 | 10.6 |
| PCB082 | 52663-62-4 | pg/g | 70 | 64 | 91.4 | 5.35 | 846 | 97.4 | 42.2 | 397 | 4.74 U | 846 | 89.7 | 36.7 | 386 |
| PCB083 | 60145-20-2 | pg/g | 70 | 1 | 1.43 | 12.2 | 12.2 | 12.2 | 12.2 | | 4.64 U | 49.6 U | 6.94 | 4.95 | 12.3 |
| PCB084 & 092 | PCB084_092 | pg/g | 70 | 69 | 98.6 | 6.24 | 15100 | 694 | 163 | 3420 | 6.24 | 15100 | 684 | 159 | 3400 |
| PCB085 & 116 | PCB085_116 | pg/g | 70 | 68 | 97.1 | 6.1 | 1470 | 140 | 57.8 | 563 | 4.97 U | 1470 | 137 | 57 | 556 |
| PCB086 | 55312-69-1 | pg/g | 70 | 5 | 7.14 | 8.21 | 104 | 34.2 | 22.1 | 88.2 | 4.64 U | 104 | 8.93 | 4.96 | 23.8 |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 70 | 70 | 100 | 5.6 | 9170 | 374 | 122 | 1190 | 5.6 | 9170 | 374 | 122 | 1190 |
| PCB088 & 091 | PCB088_091 | pg/g | 70 | 68 | 97.1 | 5.37 | 23100 | 625 | 72.3 | 1670 | 4.97 U | 23100 | 607 | 70.2 | 1610 |
| PCB089 | 73575-57-2 | pg/g | 70 | 25 | 35.7 | 4.95 | 149 | 22.3 | 9.49 | 79.8 | 4.74 U | 149 | 12.3 | 5.02 | 35 |
| PCB090 & 101 | PCB090_101 | pg/g | 70 | 70 | 100 | 16.9 | 72000 | 2270 | 431 | 8350 | 16.9 | 72000 | 2270 | 431 | 8350 |
| PCB093 | 73575-56-1 | pg/g | 70 | 0 | 0 | | | | | | 4.64 U | 49.6 U | 6.84 | 4.95 | 12.2 |
| PCB094 | 73575-55-0 | pg/g | 70 | 35 | 50 | 5.05 | 1450 | 96.8 | 9.31 | 618 | 4.74 U | 1450 | 51.5 | 5.46 | 145 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 70 | 70 | 100 | 12.3 | 38900 | 1740 | 313 | 7530 | 12.3 | 38900 | 1740 | 313 | 7530 |
| PCB096 | 73575-54-9 | pg/g | 70 | 36 | 51.4 | 5.09 | 1730 | 111 | 10.3 | 621 | 4.74 U | 1730 | 60.1 | 6.22 | 177 |
| PCB097 | 41464-51-1 | pg/g | 70 | 68 | 97.1 | 9.23 | 3870 | 270 | 98.6 | 1120 | 4.97 U | 3870 | 263 | 97.2 | 1100 |
| PCB099 | 38380-01-7 | pg/g | 70 | 70 | 100 | 7.15 | 26300 | 926 | 189 | 3820 | 7.15 | 26300 | 926 | 189 | 3820 |
| PCB100 | 39485-83-1 | pg/g | 70 | 51 | 72.9 | 4.95 | 4080 | 175 | 19.6 | 835 | 4.74 U | 4080 | 129 | 13.9 | 661 |
| PCB103 | 60145-21-3 | pg/g | 70 | 49 | 70 | 5.45 | 2680 | 187 | 15.9 | 995 | 4.74 U | 2680 | 132 | 11.8 | 485 |
| PCB104 | 56558-16-8 | pg/g | 70 | 11 | 15.7 | 4.87 | 190 | 50.4 | 13.3 | 177 | 4.74 U | 190 | 13.3 | 4.96 | 42.9 |
| PCB105 | 32598-14-4 | pg/g | 70 | 69 | 98.6 | 5.73 | 4080 | 268 | 115 | 984 | 5.73 | 4080 | 265 | 114 | 982 |
| PCB106 & 118 | PCB106_118 | pg/g | 70 | 70 | 100 | 12.9 | 43800 | 1280 | 329 | 3380 | 12.9 | 43800 | 1280 | 329 | 3380 |
| PCB107 & 109 | PCB107_109 | pg/g | 70 | 63 | 90 | 5.14 | 7200 | 192 | 29.8 | 416 | 4.74 U | 7200 | 173 | 26.9 | 415 |
| PCB108 & 112 | PCB108_112 | pg/g | 70 | 58 | 82.9 | 5.25 | 1950 | 81.3 | 20 | 239 | 4.74 U | 1950 | 68.7 | 17.5 | 216 |
| PCB110 | 38380-03-9 | pg/g | 70 | 70 | 100 | 19.9 | 47800 | 1760 | 455 | 6300 | 19.9 | 47800 | 1760 | 455 | 6300 |
| PCB111 & 115 | PCB111_115 | pg/g | 70 | 40 | 57.1 | 5.03 | 317 | 30.3 | 9.9 | 103 | 4.74 U | 317 | 19.9 | 6.88 | 76.1 |
| PCB113 | 68194-10-5 | pg/g | 70 | 16 | 22.9 | 4.96 T | 370 | 76.3 | 17.6 | 333 | 4.74 U | 370 | 22.5 | 4.98 | 80.3 |
| PCB114 | 74472-37-0 | pg/g | 70 | 61 | 87.1 | 1.57 J | 122 | 15.1 | 6.73 | 55.4 | 0.739 U | 122 | 13.5 | 6.27 | 54.6 |
| PCB119 | 56558-17-9 | pg/g | 70 | 52 | 74.3 | 5.62 | 7100 | 258 | 18.9 | 1030 | 4.74 U | 7100 | 193 | 15.2 | 537 |

Table 4-3. Summary Statistics for Round 3B Surface Sediment Samples

| | | | | | | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **N Detected** | **% Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| PCB120 | 68194-12-7 | pg/g | 70 | 13 | 18.6 | 4.87 | 887 | 121 | 41.4 | 448 | 4.74 U | 887 | 27.1 | 4.97 | 90.1 |
| PCB121 | 56558-18-0 | pg/g | 70 | 4 | 5.71 | 30.4 | 313 | 128 | 84.9 | 280 | 4.74 U | 313 | 13.3 | 4.96 | 41 |
| PCB122 | 76842-07-4 | pg/g | 70 | 25 | 35.7 | 5.08 | 68.8 | 16.7 | 9.83 | 53.9 | 4.74 U | 68.8 | 10.5 | 5.02 | 35.4 |
| PCB123 | 65510-44-3 | pg/g | 70 | 58 | 82.9 | 1.02 J | 212 | 15.7 | 6.61 | 55.9 | 0.913 U | 212 | 13.6 | 5.95 | 51.6 |
| PCB124 | 70424-70-3 | pg/g | 70 | 58 | 82.9 | 5 | 463 | 40.9 | 16.6 | 166 | 4.74 U | 463 | 34.8 | 14.4 | 161 |
| PCB126 | 57465-28-8 | pg/g | 70 | 56 | 80 | 0.757 J | 153 | 8.54 | 3.36 | 26.3 | 0.617 U | 153 | 7.24 | 3.08 | 23.7 |
| PCB127 | 39635-33-1 | pg/g | 70 | 0 | 0 | | | | | | 4.64 U | 49.6 U | 6.84 | 4.95 | 12.2 |
| PCB128 & 162 | PCB128_162 | pg/g | 70 | 68 | 97.1 | 7.33 | 13200 | 340 | 75.5 | 757 | 4.97 U | 13200 | 331 | 73.2 | 752 |
| PCB129 | 55215-18-4 | pg/g | 70 | 60 | 85.7 | 5.34 | 3010 | 94.6 | 22.5 | 252 | 4.74 U | 3010 | 82 | 18.9 | 228 |
| PCB130 | 52663-66-8 | pg/g | 70 | 64 | 91.4 | 4.9 | 6840 | 219 | 39.3 | 623 | 4.9 | 6840 | 201 | 36.7 | 602 |
| PCB131 | 61798-70-7 | pg/g | 70 | 0 | 0 | | | | | | 4.64 U | 49.6 U | 6.84 | 4.95 | 12.2 |
| PCB132 & 161 | PCB132_161 | pg/g | 70 | 69 | 98.6 | 6.24 | 42300 | 1080 | 145 | 3120 | 6.24 | 42300 | 1060 | 144 | 3090 |
| PCB133 & 142 | PCB133_142 | pg/g | 70 | 55 | 78.6 | 5.01 T | 3630 | 210 | 22.8 | 1190 | 4.74 U | 3630 | 167 | 18.3 | 792 |
| PCB134 & 143 | PCB134_143 | pg/g | 70 | 61 | 87.1 | 4.98 | 8020 | 228 | 30.1 | 613 | 4.74 U | 8020 | 199 | 26.5 | 555 |
| PCB135 | 52744-13-5 | pg/g | 70 | 67 | 95.7 | 5.77 | 28900 | 892 | 85.5 | 3590 | 4.97 U | 28900 | 854 | 83.9 | 3390 |
| PCB136 | 38411-22-2 | pg/g | 70 | 66 | 94.3 | 6.14 | 31900 | 916 | 80.8 | 3070 | 4.95 U | 31900 | 864 | 78.9 | 3010 |
| PCB137 | 35694-06-5 | pg/g | 70 | 61 | 87.1 | 5.56 | 2350 | 81.3 | 22.2 | 197 | 4.74 U | 2350 | 71.6 | 19.8 | 190 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 70 | 70 | 100 | 24.7 | 213000 | 4770 | 580 | 11700 | 24.7 | 213000 | 4770 | 580 | 11700 |
| PCB139 & 149 | PCB139_149 | pg/g | 70 | 70 | 100 | 20.9 | 233000 | 5430 | 508 | 13100 | 20.9 | 233000 | 5430 | 508 | 13100 |
| PCB140 | 59291-64-4 | pg/g | 70 | 35 | 50 | 4.98 | 1270 | 124 | 11.2 | 676 | 4.74 U | 1270 | 64.9 | 6.04 | 404 |
| PCB141 | 52712-04-6 | pg/g | 70 | 69 | 98.6 | 7.41 | 52300 | 1110 | 106 | 2310 | 4.97 U | 52300 | 1090 | 106 | 2280 |
| PCB144 | 68194-14-9 | pg/g | 70 | 61 | 87.1 | 5.67 | 12700 | 298 | 29.8 | 690 | 4.74 U | 12700 | 261 | 26.1 | 609 |
| PCB145 | 74472-40-5 | pg/g | 70 | 1 | 1.43 | 9.52 J | 9.52 J | 9.52 | 9.52 | | 4.64 U | 49.6 U | 6.28 | 4.95 | 11.9 |
| PCB146 & 165 | PCB146_165 | pg/g | 70 | 67 | 95.7 | 7.38 | 28700 | 1090 | 105 | 5180 | 4.97 U | 28700 | 1040 | 105 | 4700 |
| PCB147 | 68194-13-8 | pg/g | 70 | 52 | 74.3 | 6.99 | 5930 | 283 | 27.3 | 1690 | 4.74 U | 5930 | 212 | 19.8 | 1190 |
| PCB148 | 74472-41-6 | pg/g | 70 | 18 | 25.7 | 5.37 T | 617 | 130 | 54.1 | 552 | 4.74 U | 617 | 37.8 | 4.98 | 198 |
| PCB150 | 68194-08-1 | pg/g | 70 | 17 | 24.3 | 5.92 T | 1190 | 204 | 40.9 | 791 | 4.74 U | 1190 | 53.8 | 4.98 | 313 |
| PCB151 | 52663-63-5 | pg/g | 70 | 69 | 98.6 | 6.06 | 74500 | 1740 | 152 | 5250 | 6.06 | 74500 | 1720 | 153 | 5130 |
| PCB152 | 68194-09-2 | pg/g | 70 | 10 | 14.3 | 5.67 | 303 | 56.6 | 14.7 | 208 | 4.74 U | 303 | 13.5 | 4.96 | 43.5 |
| PCB153 | 35065-27-1 | pg/g | 70 | 70 | 100 | 23.4 | 258000 | 6130 | 612 | 16400 | 23.4 | 258000 | 6130 | 612 | 16400 |
| PCB154 | 60145-22-4 | pg/g | 70 | 52 | 74.3 | 6.71 | 3880 | 272 | 20.8 | 2060 | 4.74 U | 3880 | 203 | 17.3 | 1350 |
| PCB155 | 33979-03-2 | pg/g | 70 | 5 | 7.14 | 14.5 | 47.9 | 30.4 | 24.1 | 46.6 | 4.74 U | 49.6 U | 8.05 | 4.96 | 24.1 |
| PCB156 | 38380-08-4 | pg/g | 70 | 69 | 98.6 | 2.18 J | 16000 | 344 | 49.4 | 702 | 2.18 J | 16000 | 339 | 48.8 | 700 |
| PCB157 | 69782-90-7 | pg/g | 70 | 67 | 95.7 | 0.798 J | 1710 | 42.9 | 9.76 | 91.7 | 0.798 J | 1710 | 41.3 | 9.45 | 88.5 |
| PCB158 & 160 | PCB158_160 | pg/g | 70 | 68 | 97.1 | 5.25 | 19300 | 421 | 55.8 | 887 | 4.97 U | 19300 | 409 | 54.5 | 865 |
| PCB159 | 39635-35-3 | pg/g | 70 | 3 | 4.29 | 7.51 | 263 | 93.1 | 8.73 | 238 | 4.64 U | 263 | 10.6 | 4.95 | 12.5 |
| PCB166 | 41411-63-6 | pg/g | 70 | 8 | 11.4 | 5.09 | 182 | 30.9 | 10.1 | 124 | 4.64 U | 182 | 9.18 | 4.96 | 12.6 |
| PCB167 | 52663-72-6 | pg/g | 70 | 70 | 100 | 0.867 J | 5900 | 131 | 20.8 | 279 | 0.867 J | 5900 | 131 | 20.8 | 279 |
| PCB168 | 59291-65-5 | pg/g | 70 | 12 | 17.1 | 5.21 T | 362 | 81.8 | 26.3 | 310 | 4.74 U | 362 | 18.7 | 4.97 | 66.5 |
| PCB169 | 32774-16-6 | pg/g | 70 | 3 | 4.29 | 0.726 J | 2.37 J | 1.3 | 0.805 | 2.21 | 0.407 U | 18.8 U | 1.83 | 0.958 | 4.47 |
| PCB170 | 35065-30-6 | pg/g | 70 | 70 | 100 | 7.06 | 95600 | 2230 | 180 | 5420 | 7.06 | 95600 | 2230 | 180 | 5420 |
| PCB171 | 52663-71-5 | pg/g | 70 | 65 | 92.9 | 5.9 | 24300 | 599 | 51.3 | 1630 | 4.74 U | 24300 | 556 | 48.5 | 1460 |
| PCB172 | 52663-74-8 | pg/g | 70 | 62 | 88.6 | 6.14 | 14900 | 404 | 33.4 | 1210 | 4.74 U | 14900 | 359 | 32.6 | 983 |
| PCB173 | 68194-16-1 | pg/g | 70 | 30 | 42.9 | 5.02 | 2300 | 114 | 12.4 | 240 | 4.74 U | 2300 | 52.3 | 5.05 | 117 |
| PCB174 | 38411-25-5 | pg/g | 70 | 70 | 100 | 8.24 | 112000 | 2580 | 215 | 6870 | 8.24 | 112000 | 2580 | 215 | 6870 |
| PCB175 | 40186-70-7 | pg/g | 70 | 50 | 71.4 | 5.61 | 5310 | 167 | 12 | 396 | 4.74 U | 5310 | 121 | 9.75 | 292 |
| PCB176 | 52663-65-7 | pg/g | 70 | 63 | 90 | 5.11 | 16000 | 394 | 28 | 992 | 4.74 U | 16000 | 355 | 26.8 | 861 |
| PCB177 | 52663-70-4 | pg/g | 70 | 69 | 98.6 | 6.86 | 58000 | 1580 | 130 | 4580 | 4.97 U | 58000 | 1560 | 129 | 4470 |
| PCB178 | 52663-67-9 | pg/g | 70 | 65 | 92.9 | 5.71 | 21700 | 667 | 51.3 | 1940 | 4.95 U | 21700 | 620 | 49.4 | 1910 |
| PCB179 | 52663-64-6 | pg/g | 70 | 68 | 97.1 | 5.65 | 51800 | 1370 | 105 | 3850 | 4.97 U | 51800 | 1330 | 103 | 3650 |
| PCB180 | 35065-29-3 | pg/g | 70 | 70 | 100 | 16.7 | 256000 | 5960 | 468 | 15000 | 16.7 | 256000 | 5960 | 468 | 15000 |
| PCB181 | 74472-47-2 | pg/g | 70 | 9 | 12.9 | 6.23 J | 365 | 60.5 | 22.6 | 245 | 4.74 U | 365 | 13.3 | 4.96 | 24 |
| PCB182 & 187 | PCB182_187 | pg/g | 70 | 70 | 100 | 12.4 | 147000 | 3910 | 296 | 9070 | 12.4 | 147000 | 3910 | 296 | 9070 |
| PCB183 | 52663-69-1 | pg/g | 70 | 69 | 98.6 | 7.64 | 70000 | 1580 | 119 | 3720 | 4.97 U | 70000 | 1550 | 119 | 3620 |

Table 4-3. Summary Statistics for Round 3B Surface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| PCB184 | 74472-48-3 | pg/g | 70 | 5 | 7.14 | 7.26 | 42.2 | 21.1 | 13.8 | 39.7 | 4.74 U | 49.6 U | 7.38 | 4.96 | 13.3 |
| PCB185 | 52712-05-7 | pg/g | 70 | 58 | 82.9 | 5.12 | 11700 | 317 | 24.5 | 881 | 4.74 U | 11700 | 264 | 23.9 | 694 |
| PCB186 | 74472-49-4 | pg/g | 70 | 0 | 0 | | | | | | 4.64 U | 49.6 U | 6.84 | 4.95 | 12.2 |
| PCB188 | 74487-85-7 | pg/g | 70 | 10 | 14.3 | 7.4 | 429 | 88.7 | 47.4 | 296 | 4.74 U | 429 | 17.5 | 4.96 | 84 |
| PCB189 | 39635-31-9 | pg/g | 70 | 62 | 88.6 | 0.457 J | 3400 | 95.4 | 7.24 | 211 | 0.425 U | 3400 | 84.7 | 6.71 | 175 |
| PCB190 | 41411-64-7 | pg/g | 70 | 66 | 94.3 | 5.65 | 21000 | 519 | 40.6 | 1290 | 4.74 U | 21000 | 490 | 38.7 | 1160 |
| PCB191 | 74472-50-7 | pg/g | 70 | 44 | 62.9 | 5.3 | 4100 | 147 | 10.2 | 286 | 4.74 U | 4100 | 94.5 | 7.24 | 217 |
| PCB192 | 74472-51-8 | pg/g | 70 | 0 | 0 | | | | | | 4.64 U | 49.6 U | 6.84 | 4.95 | 12.2 |
| PCB193 | 69782-91-8 | pg/g | 70 | 61 | 87.1 | 4.92 J | 11200 | 346 | 25.3 | 888 | 4.74 U | 11200 | 302 | 24.6 | 726 |
| PCB194 | 35694-08-7 | pg/g | 70 | 69 | 98.6 | 6.55 | 53800 | 1500 | 112 | 3420 | 4.97 U | 53800 | 1480 | 109 | 3340 |
| PCB195 | 52663-78-2 | pg/g | 70 | 65 | 92.9 | 4.74 | 22900 | 658 | 46.1 | 1670 | 4.74 | 22900 | 612 | 45.4 | 1470 |
| PCB196 & 203 | PCB196_203 | pg/g | 70 | 70 | 100 | 6.37 | 69500 | 1870 | 140 | 3580 | 6.37 | 69500 | 1870 | 140 | 3580 |
| PCB197 | 33091-17-7 | pg/g | 70 | 25 | 35.7 | 4.97 | 2030 | 152 | 22.1 | 657 | 4.74 U | 2030 | 58 | 5.01 | 125 |
| PCB198 | 68194-17-2 | pg/g | 70 | 42 | 60 | 5.23 | 2960 | 137 | 10.4 | 306 | 4.74 U | 2960 | 84.8 | 7.48 | 211 |
| PCB199 | 52663-75-9 | pg/g | 70 | 69 | 98.6 | 6.18 | 58600 | 1670 | 141 | 3550 | 6.18 | 58600 | 1640 | 140 | 3500 |
| PCB200 | 52663-73-7 | pg/g | 70 | 51 | 72.9 | 5.95 | 7870 | 280 | 20.4 | 640 | 4.74 U | 7870 | 206 | 16.8 | 456 |
| PCB201 | 40186-71-8 | pg/g | 70 | 52 | 74.3 | 5.06 | 6670 | 246 | 19.3 | 662 | 4.74 U | 6670 | 184 | 15.7 | 437 |
| PCB202 | 2136-99-4 | pg/g | 70 | 60 | 85.7 | 5.84 | 7630 | 272 | 27.4 | 668 | 4.74 U | 7630 | 234 | 26 | 555 |
| PCB204 | 74472-52-9 | pg/g | 70 | 0 | 0 | | | | | | 4.64 U | 49.6 U | 6.84 | 4.95 | 12.2 |
| PCB205 | 74472-53-0 | pg/g | 70 | 39 | 55.7 | 4.82 | 2570 | 123 | 8.74 | 335 | 4.74 U | 2570 | 71.4 | 5.51 | 158 |
| PCB206 | 40186-72-9 | pg/g | 70 | 67 | 95.7 | 8.01 | 8940 | 352 | 66.8 | 835 | 4.95 U | 8940 | 337 | 66.2 | 817 |
| PCB207 | 52663-79-3 | pg/g | 70 | 41 | 58.6 | 5 | 1320 | 73.2 | 12.1 | 167 | 4.74 U | 1320 | 45.4 | 8.17 | 86.3 |
| PCB208 | 52663-77-1 | pg/g | 70 | 60 | 85.7 | 5.24 | 1480 | 80.6 | 25.3 | 216 | 4.74 U | 1480 | 69.9 | 20.6 | 210 |
| PCB209 | 2051-24-3 | pg/g | 70 | 68 | 97.1 | 7.32 | 1110 | 104 | 61.9 | 331 | 4.97 U | 1110 | 101 | 60.8 | 325 |
| Total PCB Congeners | 1336-36-3 | pg/g | 70 | 70 | 100 | 290 JT | 2750000 JT | 81500 | 10900 | 243000 | 290 JT | 2750000 JT | 81500 | 10900 | 243000 |
| **PCB Homologs** | | | | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 70 | 69 | 98.6 | 13.9 T | 66900 T | 1510 | 255 | 2630 | 13.9 T | 66900 T | 1490 | 253 | 2590 |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 70 | 70 | 100 | 44.4 T | 927000 JT | 22400 | 1810 | 57300 | 44.4 T | 927000 JT | 22400 | 1810 | 57300 |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 70 | 70 | 100 | 85.1 JT | 1070000 JT | 25800 | 2730 | 70300 | 85.1 JT | 1070000 JT | 25800 | 2730 | 70300 |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 70 | 60 | 85.7 | 5.03 T | 5020 T | 131 | 24.8 | 176 | 4.74 UT | 5020 T | 113 | 22.3 | 153 |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 70 | 67 | 95.7 | 8.01 T | 11700 T | 468 | 94.3 | 1170 | 4.95 UT | 11700 T | 448 | 93.8 | 1120 |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 70 | 70 | 100 | 12.6 T | 235000 T | 6430 | 499 | 13800 | 12.6 T | 235000 T | 6430 | 499 | 13800 |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 70 | 70 | 100 | 86.7 T | 315000 T | 11300 | 2580 | 47200 | 86.7 T | 315000 T | 11300 | 2580 | 47200 |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 70 | 70 | 100 | 41.2 T | 167000 JT | 8970 | 1790 | 44300 | 41.2 T | 167000 JT | 8970 | 1790 | 44300 |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 70 | 70 | 100 | 6.29 T | 158000 T | 4360 | 686 | 11700 | 6.29 T | 158000 T | 4360 | 686 | 11700 |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 201 | 76 | 37.8 | 0.25 | 28 | 2.37 | 1.05 | 6.55 | 0.16 U | 28 | 1.27 | 0.64 | 4.8 |
| 2,4'-DDE | 3424-82-6 | ug/kg | 201 | 12 | 5.97 | 0.06 J | 1.5 | 0.352 | 0.2 | 0.983 | 0.046 U | 5.4 U | 0.277 | 0.17 | 0.87 |
| 2,4'-DDT | 789-02-6 | ug/kg | 201 | 81 | 40.3 | 0.11 NJ | 8.8 NJ | 1.42 | 0.85 | 6.3 | 0.061 U | 41 U | 1.22 | 0.53 | 4.5 |
| 4,4'-DDD | 72-54-8 | ug/kg | 201 | 191 | 95 | 0.11 J | 110 | 2.26 | 0.93 | 5.6 | 0.073 U | 110 | 2.17 | 0.86 | 5.6 |
| 4,4'-DDE | 72-55-9 | ug/kg | 201 | 188 | 93.5 | 0.052 J | 10 J | 1.67 | 1.5 | 3.5 | 0.027 U | 13 U | 1.72 | 1.5 | 3.9 |
| 4,4'-DDT | 50-29-3 | ug/kg | 201 | 99 | 49.3 | 0.33 J | 120 | 6.21 | 2.2 | 19.4 | 0.18 U | 120 | 3.52 | 1.1 | 12 |
| Aldrin | 309-00-2 | ug/kg | 200 | 42 | 21 | 0.16 NJ | 1.4 NJ | 0.533 | 0.47 | 1.09 | 0.12 U | 2.6 U | 0.368 | 0.295 | 0.902 |
| alpha-Endosulfan | 959-98-8 | ug/kg | 201 | 112 | 55.7 | 0.044 NJ | 6.5 | 0.266 | 0.18 | 0.408 | 0.037 U | 13 U | 0.308 | 0.17 | 0.55 |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 201 | 5 | 2.49 | 0.17 J | 1.8 J | 0.904 | 0.85 | 1.66 | 0.097 U | 1.8 J | 0.142 | 0.11 | 0.25 |
| beta-Endosulfan | 33213-65-9 | ug/kg | 201 | 19 | 9.45 | 0.071 NJ | 2.2 JT | 0.53 | 0.18 | 1.57 | 0.031 U | 5.6 U | 0.221 | 0.11 | 0.63 |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 201 | 24 | 11.9 | 0.14 | 0.81 NJ | 0.333 | 0.28 | 0.753 | 0.14 U | 4.3 U | 0.27 | 0.16 | 0.65 |
| cis-Chlordane | 5103-71-9 | ug/kg | 201 | 39 | 19.4 | 0.049 J | 2.1 | 0.241 | 0.14 | 0.555 | 0.031 U | 2.1 | 0.127 | 0.062 | 0.29 |
| cis-Nonachlor | 5103-73-1 | ug/kg | 201 | 4 | 1.99 | 0.25 J | 3.9 NJ | 1.24 | 0.395 | 3.4 | 0.087 U | 700 U | 4.26 | 0.41 | 3.7 |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 201 | 6 | 2.99 | 0.12 J | 0.53 NJ | 0.247 | 0.175 | 0.488 | 0.11 U | 2.1 U | 0.186 | 0.12 | 0.55 |
| Dieldrin | 60-57-1 | ug/kg | 201 | 70 | 34.8 | 0.038 J | 5.3 J | 0.407 | 0.285 | 0.903 | 0.03 U | 5.3 J | 0.298 | 0.2 | 0.74 |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 201 | 2 | 0.995 | 0.078 J | 0.56 J | 0.319 | 0.319 | 0.536 | 0.058 U | 2.1 U | 0.247 | 0.21 | 0.58 |
| Endrin | 72-20-8 | ug/kg | 201 | 4 | 1.99 | 0.079 J | 2.5 NJ | 0.719 | 0.148 | 2.16 | 0.071 U | 4.3 U | 0.248 | 0.083 | 0.96 |

Table 4-3. Summary Statistics for Round 3B Surface Sediment Samples

| | | | | | | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **N Detected** | **% Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| Endrin aldehyde | 7421-93-4 | ug/kg | 201 | 10 | 4.98 | 0.045 JT | 14 NJ | 1.65 | 0.235 | 7.95 | 0.042 U | 14 NJ | 0.416 | 0.19 | 1.5 |
| Endrin ketone | 53494-70-5 | ug/kg | 201 | 37 | 18.4 | 0.089 J | 10 JT | 0.984 | 0.35 | 6.82 | 0.029 U | 27 U | 0.659 | 0.23 | 1.8 |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 201 | 17 | 8.46 | 0.1 J | 9.9 NJ | 1.61 | 0.44 | 6.46 | 0.062 U | 9.9 NJ | 0.367 | 0.23 | 0.91 |
| Heptachlor | 76-44-8 | ug/kg | 201 | 20 | 9.95 | 0.12 J | 1.6 J | 0.5 | 0.49 | 0.821 | 0.076 U | 3.2 U | 0.195 | 0.087 | 0.59 |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 201 | 23 | 11.4 | 0.072 J | 1.9 JT | 0.481 | 0.31 | 1.37 | 0.068 U | 2.1 U | 0.257 | 0.22 | 0.63 |
| Methoxychlor | 72-43-5 | ug/kg | 201 | 1 | 0.498 | 0.92 J | 0.92 J | 0.92 | 0.92 | | 0.075 U | 11 U | 0.534 | 0.39 | 1.5 |
| Mirex | 2385-85-5 | ug/kg | 201 | 3 | 1.49 | 0.47 | 16 NJ | 7.19 | 5.1 | 14.9 | 0.12 U | 16 NJ | 0.254 | 0.13 | 0.16 |
| Oxychlordane | 27304-13-8 | ug/kg | 201 | 13 | 6.47 | 0.077 J | 11 J | 1.31 | 0.3 | 6.08 | 0.061 U | 11 J | 0.368 | 0.23 | 1.1 |
| Total Chlordanes | TOTCHLDANE | ug/kg | 201 | 166 | 82.6 | 0.031 JT | 11 JT | 0.692 | 0.47 | 1.58 | 0.031 JT | 700 UT | 4.27 | 0.47 | 2.8 |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 201 | 123 | 61.2 | 0.044 JT | 6.5 T | 0.329 | 0.19 | 1.18 | 0.044 JT | 13 UT | 0.406 | 0.2 | 1.4 |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 201 | 193 | 96 | 0.11 JT | 140 T | 3.18 | 1 | 8.82 | 0.11 JT | 140 T | 3.09 | 1 | 8.7 |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 201 | 199 | 99 | 0.052 JT | 160 T | 8.31 | 3.8 | 22.4 | 0.052 JT | 160 T | 8.23 | 3.6 | 22 |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 201 | 188 | 93.5 | 0.052 JT | 10 JT | 1.7 | 1.5 | 3.6 | 0.046 UT | 13 UT | 1.77 | 1.5 | 4.1 |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 201 | 126 | 62.7 | 0.15 JT | 120 T | 5.8 | 2.45 | 17.8 | 0.15 JT | 120 T | 4.1 | 1.2 | 12 |
| Toxaphene | 8001-35-2 | ug/kg | 201 | 1 | 0.498 | 48 NJ | 48 NJ | 48 | 48 | | 3.4 U | 1300 U | 42 | 22 | 91 |
| trans-Chlordane | 5103-74-2 | ug/kg | 201 | 138 | 68.7 | 0.031 J | 3.9 J | 0.464 | 0.37 | 0.918 | 0.027 U | 4 U | 0.48 | 0.35 | 1.1 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 201 | 89 | 44.3 | 0.051 J | 1.5 | 0.218 | 0.17 | 0.424 | 0.034 U | 10 U | 0.246 | 0.14 | 0.44 |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 201 | 194 | 96.5 | 2.6 T | 3500 J | 118 | 61 | 234 | 1.3 U | 3500 J | 114 | 60 | 215 |
| Diesel Range Hydrocarbons (silica gel treated) | DRHSGT | mg/kg | 201 | 189 | 94 | 1.7 T | 1900 J | 77.4 | 41 | 182 | 1.3 U | 1900 J | 73.1 | 39 | 170 |
| Residual Range Hydrocarbons | RRH | mg/kg | 201 | 200 | 99.5 | 9.2 J | 3400 J | 376 | 360 | 622 | 9.2 J | 3400 J | 374 | 360 | 620 |
| Residual Range Hydrocarbons (silica gel treated) | RRHSGT | mg/kg | 201 | 197 | 98 | 6.9 T | 1400 J | 173 | 160 | 360 | 3.1 U | 1400 J | 170 | 160 | 360 |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 201 | 201 | 100 | 7.2 JA | 6900 JA | 488 | 425 | 920 | 7.2 JA | 6900 JA | 488 | 425 | 920 |
| Total Petroleum Hydrocarbons (silica gel treated) | TPHSGT | mg/kg | 201 | 198 | 98.5 | 4.1 JA | 3300 JA | 246 | 197 | 545 | 3.1 UA | 3300 JA | 243 | 197 | 530 |
| **Phenols** | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 201 | 7 | 3.48 | 0.62 J | 7.5 J | 2.82 | 1.2 | 7.5 | 0.23 U | 11 U | 0.806 | 0.44 | 2.6 |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 201 | 11 | 5.47 | 0.38 NJ | 9.7 J | 1.85 | 1 | 5.7 | 0.18 U | 9.7 J | 0.482 | 0.34 | 1 |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 201 | 0 | 0 | | | | | | 0.64 U | 9.8 U | 1.38 | 1.1 | 1.8 |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 201 | 10 | 4.98 | 0.21 NJ | 0.48 NJ | 0.327 | 0.32 | 0.467 | 0.12 U | 0.55 U | 0.231 | 0.23 | 0.31 |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 201 | 0 | 0 | | | | | | 1 U | 50 U | 2.96 | 1.2 | 6.3 |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 173 | 0 | 0 | | | | | | 5.5 U | 280 UJ | 16.7 | 6.3 | 34.4 |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 200 | 0 | 0 | | | | | | 17 U | 350 U | 46.3 | 20 | 110 |
| 2-Chlorophenol | 95-57-8 | ug/kg | 201 | 0 | 0 | | | | | | 2 U | 100 U | 5.96 | 2.3 | 13 |
| 2-Methylphenol | 95-48-7 | ug/kg | 201 | 1 | 0.498 | 2.6 J | 2.6 J | 2.6 | 2.6 | | 1.5 U | 75 U | 4.43 | 1.8 | 9.5 |
| 2-Nitrophenol | 88-75-5 | ug/kg | 201 | 0 | 0 | | | | | | 1.5 U | 75 U | 4.42 | 1.8 | 9.5 |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 201 | 0 | 0 | | | | | | 1.4 U | 70 U | 4.13 | 1.6 | 8.8 |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 201 | 1 | 0.498 | 2.4 J | 2.4 J | 2.4 | 2.4 | | 1.4 U | 70 U | 4.13 | 1.6 | 8.8 |
| 4-Methylphenol | 106-44-5 | ug/kg | 201 | 151 | 75.1 | 2 J | 380 J | 17.2 | 9.8 | 41 | 1.5 U | 380 J | 14.5 | 8.4 | 37 |
| 4-Nitrophenol | 100-02-7 | ug/kg | 201 | 0 | 0 | | | | | | 18 U | 900 U | 53.4 | 21 | 120 |
| Pentachlorophenol | 87-86-5 | ug/kg | 201 | 60 | 29.9 | 0.27 J | 59 | 7.1 | 4.1 | 33.2 | 0.17 U | 59 | 2.82 | 0.39 | 9.7 |
| Phenol | 108-95-2 | ug/kg | 201 | 88 | 43.8 | 2.2 J | 130 | 9.38 | 5.75 | 33.6 | 2 U | 470 U | 14.1 | 10 | 31 |
| **Phthalates** | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 201 | 183 | 91 | 7.3 J | 3300 J | 160 | 120 | 329 | 7 U | 3300 J | 156 | 110 | 330 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 201 | 88 | 43.8 | 3.4 J | 130 | 15.3 | 9.95 | 33 | 3.2 U | 160 U | 13.5 | 8.7 | 32 |
| Dibutyl phthalate | 84-74-2 | ug/kg | 201 | 119 | 59.2 | 8.1 J | 1500 | 34.2 | 18 | 37.3 | 7.9 U | 1500 | 39.1 | 23 | 60 |
| Diethyl phthalate | 84-66-2 | ug/kg | 201 | 140 | 69.7 | 1.5 J | 11 J | 4.22 | 3.55 | 9.01 | 1.3 U | 65 U | 5.45 | 4.3 | 10 |
| Dimethyl phthalate | 131-11-3 | ug/kg | 201 | 21 | 10.4 | 1.1 J | 22 J | 2.89 | 1.8 | 4.7 | 1 U | 50 U | 3.11 | 1.2 | 6.5 |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 201 | 0 | 0 | | | | | | 1.7 U | 85 U | 5.03 | 2 | 11 |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 201 | 0 | 0 | | | | | | 2.6 U | 130 U | 7.71 | 3 | 17 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 201 | 0 | 0 | | | | | | 2.9 U | 150 U | 8.66 | 3.3 | 19 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 201 | 0 | 0 | | | | | | 3 U | 150 U | 8.86 | 3.5 | 19 |

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Table 4-3. Summary Statistics for Round 3B Surface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations[1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 201 | 7 | 3.48 | 3.6 J | 42 J | 14.5 | 4.5 | 36.9 | 2.9 U | 150 U | 8.94 | 3.4 | 20 |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 201 | 0 | 0 | | | | | | 1.5 U | 75 U | 4.42 | 1.8 | 9.5 |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 201 | 0 | 0 | | | | | | 2 U | 100 U | 5.96 | 2.3 | 13 |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 201 | 1 | 0.498 | 83 | 83 | 83 | 83 | | 1.6 U | 83 | 5.09 | 1.9 | 11 |
| 2-Nitroaniline | 88-74-4 | ug/kg | 201 | 0 | 0 | | | | | | 3.2 U | 160 U | 9.47 | 3.7 | 21 |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 192 | 0 | 0 | | | | | | 3.7 U | 190 U | 11.1 | 4.25 | 24 |
| 3-Nitroaniline | 99-09-2 | ug/kg | 198 | 0 | 0 | | | | | | 2.5 U | 130 U | 7.56 | 2.9 | 16.2 |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 201 | 0 | 0 | | | | | | 1.6 U | 80 U | 4.72 | 1.9 | 11 |
| 4-Chloroaniline | 106-47-8 | ug/kg | 197 | 3 | 1.52 | 12 J | 14 J | 13 | 13 | 13.9 | 1.9 U | 95 U | 5.76 | 2.2 | 13 |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 201 | 0 | 0 | | | | | | 1.4 U | 70 U | 4.13 | 1.6 | 8.8 |
| 4-Nitroaniline | 100-01-6 | ug/kg | 201 | 0 | 0 | | | | | | 1.8 U | 90 U | 5.34 | 2.1 | 12 |
| Aniline | 62-53-3 | ug/kg | 191 | 16 | 8.38 | 5.1 J | 21 J | 12.9 | 12.5 | 19.5 | 1.5 U | 31 U | 4.97 | 1.8 | 15 |
| Azobenzene | 103-33-3 | ug/kg | 201 | 1 | 0.498 | 1.2 JT | 1.2 JT | 1.2 | 1.2 | | 1.1 U | 55 U | 3.24 | 1.3 | 6.9 |
| Benzoic acid | 65-85-0 | ug/kg | 200 | 54 | 27 | 97 J | 550 J | 152 | 135 | 214 | 96 U | 4800 U | 294 | 140 | 611 |
| Benzyl alcohol | 100-51-6 | ug/kg | 201 | 131 | 65.2 | 2.2 J | 36 J | 9.13 | 7.2 | 17.5 | 2.1 U | 110 U | 10.2 | 9.8 | 21 |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 201 | 0 | 0 | | | | | | 1.5 U | 75 U | 4.42 | 1.8 | 9.5 |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 201 | 0 | 0 | | | | | | 1.9 U | 95 U | 5.64 | 2.2 | 12 |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 201 | 0 | 0 | | | | | | 2.6 U | 130 U | 7.71 | 3 | 17 |
| Carbazole | 86-74-8 | ug/kg | 201 | 126 | 62.7 | 1.4 J | 720 | 30.2 | 4.7 | 112 | 1.3 U | 720 | 20.7 | 4.1 | 49 |
| Dibenzofuran | 132-64-9 | ug/kg | 201 | 176 | 87.6 | 0.62 J | 1400 | 26.4 | 2.15 | 76.8 | 0.59 U | 1400 | 23.2 | 1.9 | 69 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 201 | 72 | 35.8 | 0.075 J | 180 | 2.84 | 0.195 | 1.35 | 0.068 U | 180 | 1.33 | 0.22 | 1.4 |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 201 | 20 | 9.95 | 0.19 J | 1.1 J | 0.441 | 0.385 | 0.787 | 0.14 U | 16 U | 0.617 | 0.16 | 2.6 |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 200 | 0 | 0 | | | | | | 29 U | 590 U | 79.5 | 33 | 190 |
| Hexachloroethane | 67-72-1 | ug/kg | 201 | 3 | 1.49 | 0.25 | 0.46 | 0.36 | 0.37 | 0.451 | 0.16 U | 3.2 U | 0.251 | 0.17 | 0.37 |
| Isophorone | 78-59-1 | ug/kg | 201 | 0 | 0 | | | | | | 1 U | 50 U | 2.96 | 1.2 | 6.3 |
| Nitrobenzene | 98-95-3 | ug/kg | 201 | 0 | 0 | | | | | | 2.2 U | 110 U | 6.54 | 2.5 | 14 |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 200 | 1 | 0.5 | 6.6 JT | 6.6 JT | 6.6 | 6.6 | | 6.1 U | 310 U | 18.1 | 7 | 39.1 |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 201 | 10 | 4.98 | 1.8 J | 9.9 J | 5.65 | 6.35 | 9.5 | 1.6 U | 80 U | 4.84 | 1.9 | 11 |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 201 | 0 | 0 | | | | | | 2.4 U | 120 U | 7.12 | 2.8 | 16 |

**Notes:**

[1] Summary statistics were calculated using the detection limit at full value for nondetected concentrations.

PAH - polycyclic aromatic hydrocarbon
PCB - polychlorinated biphenyl
SVOC - semivolatile organic compound

Table 4-4. Summary Statistics for Round 3B Subsurface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| **PCB Aroclors** | | | | | | | | | | | | | | | |
| Aroclor 1016 | 12674-11-2 | ug/kg | 216 | 0 | 0 | | | | | | 0.73 U | 13 U | 2.02 | 1.3 | 5 |
| Aroclor 1221 | 11104-28-2 | ug/kg | 216 | 0 | 0 | | | | | | 0.73 U | 21 U | 2.18 | 1.3 | 5.03 |
| Aroclor 1232 | 11141-16-5 | ug/kg | 216 | 0 | 0 | | | | | | 0.73 U | 16 U | 2.18 | 1.3 | 5.4 |
| Aroclor 1242 | 53469-21-9 | ug/kg | 216 | 91 | 42.1 | 2 J | 600 | 35 | 14 | 105 | 0.73 U | 600 | 16.5 | 3.7 | 55 |
| Aroclor 1248 | 12672-29-6 | ug/kg | 216 | 0 | 0 | | | | | | 0.73 U | 13 U | 2 | 1.3 | 5 |
| Aroclor 1254 | 11097-69-1 | ug/kg | 216 | 131 | 60.6 | 0.82 J | 2000 | 62.8 | 28 | 115 | 0.73 U | 2000 | 40.7 | 11 | 94.3 |
| Aroclor 1260 | 11096-82-5 | ug/kg | 216 | 146 | 67.6 | 0.88 J | 590 NJ | 34.8 | 24.5 | 87.5 | 0.73 U | 590 NJ | 24.2 | 11.5 | 77.3 |
| Aroclor 1262 | 37324-23-5 | ug/kg | 216 | 1 | 0.463 | 95 | 95 | 95 | 95 | | 0.73 U | 95 | 2.69 | 1.3 | 5 |
| Aroclor 1268 | 11100-14-4 | ug/kg | 216 | 4 | 1.85 | 1.6 NJ | 14 | 8.1 | 8.4 | 13.9 | 0.73 U | 29 U | 2.3 | 1.3 | 5.03 |
| Aroclors | 12767-79-2 | ug/kg | 216 | 153 | 70.8 | 0.82 JT | 2860 JT | 109 | 55.4 | 228 | 0.73 UT | 2860 JT | 77.7 | 28.3 | 215 |
| **Conventionals** | | | | | | | | | | | | | | | |
| Specific Gravity | SPEC_GRAV | NA | 207 | 207 | 100 | 1.03 | 3.39 | 1.75 | 1.68 | 2.29 | 1.03 | 3.39 | 1.75 | 1.68 | 2.29 |
| Total organic carbon | TOC | percent | 216 | 213 | 98.6 | 0.02 J | 23.1 | 1.56 | 1.63 | 2.56 | 0.02 U | 23.1 | 1.54 | 1.58 | 2.54 |
| Total solids | TSO | percent | 216 | 216 | 100 | 44.7 | 94.3 | 63.4 | 61.6 | 10.5 | 44.7 | 94.3 | 63.4 | 61.6 | 10.5 |
| **Dioxins/Furans** | | | | | | | | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 | pg/g | 29 | 26 | 89.7 | 0.0262 JT | 1000 | 90.7 | 20.1 | 390 | 0.00869 UT | 1000 | 81.3 | 10.9 | 349 |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 | pg/g | 29 | 25 | 86.2 | 0.788 J | 5970 J | 390 | 59.1 | 1480 | 0.0501 UT | 5970 J | 336 | 50.2 | 1200 |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 55673-89-7 | pg/g | 29 | 22 | 75.9 | 0.199 J | 91.8 | 12.8 | 2.11 | 71.7 | 0.00874 UT | 91.8 | 9.8 | 1.02 | 58.5 |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 70648-26-9 | pg/g | 29 | 24 | 82.8 | 0.048 J | 336 | 34.2 | 3.44 | 114 | 0.00399 U | 336 | 28.3 | 2.66 | 105 |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 | pg/g | 29 | 17 | 58.6 | 0.242 J | 33.3 | 3.23 | 0.748 | 11.9 | 0.00718 UT | 33.3 | 1.94 | 0.437 | 5.36 |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 57117-44-9 | pg/g | 29 | 23 | 79.3 | 0.209 J | 90.7 | 11.4 | 2.39 | 37 | 0.00431 U | 90.7 | 9.02 | 1.46 | 34.4 |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 | pg/g | 29 | 22 | 75.9 | 0.344 J | 265 | 19.9 | 4.16 | 43.4 | 0.00831 UT | 265 | 15.1 | 3.09 | 43.2 |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 72918-21-9 | pg/g | 29 | 10 | 34.5 | 0.138 J | 3.61 | 1.15 | 0.754 | 3.12 | 0.00423 U | 3.61 | 0.452 | 0.105 | 2.26 |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 | pg/g | 29 | 23 | 79.3 | 0.244 J | 103 | 8.24 | 1.97 | 24.8 | 0.00725 UT | 103 | 6.53 | 1.55 | 22.9 |
| 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | pg/g | 29 | 19 | 65.5 | 0.19 J | 98.9 | 13 | 1.86 | 52.3 | 0.00323 UT | 175 U | 14.6 | 0.611 | 78.2 |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 | pg/g | 29 | 21 | 72.4 | 0.102 J | 17.6 | 1.87 | 0.465 | 7.41 | 0.0044 U | 17.6 | 1.36 | 0.405 | 5.6 |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 60851-34-5 | pg/g | 29 | 23 | 79.3 | 0.122 J | 43.2 | 6.16 | 1.82 | 21 | 0.00442 U | 43.2 | 4.9 | 0.954 | 20.1 |
| 2,3,4,7,8-Pentachlorodibenzofuran | 57117-31-4 | pg/g | 29 | 23 | 79.3 | 0.0449 J | 67.5 | 8.45 | 0.805 | 45 | 0.00345 UT | 67.5 | 6.7 | 0.546 | 36.8 |
| 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | pg/g | 29 | 19 | 65.5 | 0.234 J | 129 | 16.9 | 2.62 | 76.7 | 0.00322 U | 129 | 11.1 | 0.686 | 64.9 |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-6 | pg/g | 29 | 13 | 44.8 | 0.136 J | 2.83 | 0.841 | 0.441 | 2.69 | 0.002 U | 2.83 | 0.422 | 0.155 | 2.03 |
| Dioxin/furan TCDD toxicity equivalent (ND = 0) | TEQ_DIOXIN.0 | pg/g | 29 | 26 | 89.7 | 0.000262 JT | 173 JT | 19.2 | 2.76 | 82.6 | 0.000262 JT | 173 JT | 17.2 | 2.33 | 75.9 |
| Total TCDD toxicity equivalent (ND = 0) | TEQ_TOTAL.0 | pg/g | 95 | 89 | 93.7 | 6.96E-05 JT | 175 JT | 10.9 | 1.73 | 49.4 | 0.0000696 JT | 175 JT | 10.2 | 1.52 | 47.6 |
| **Dioxin/Furan Homologs** | | | | | | | | | | | | | | | |
| Heptachlorodibenzofuran homologs | 38998-75-3 | pg/g | 29 | 25 | 86.2 | 0.528 J | 5980 | 425 | 62.2 | 1860 | 0.00869 UT | 5980 | 367 | 39.3 | 1510 |
| Heptachlorodibenzo-p-dioxin homologs | 37871-00-4 | pg/g | 29 | 26 | 89.7 | 1.11 JT | 10900 | 754 | 142 | 3280 | 0.0501 UT | 10900 | 676 | 105 | 2760 |
| Hexachlorodibenzofuran homologs | 55684-94-1 | pg/g | 29 | 25 | 86.2 | 0.183 J | 2010 | 167 | 28.5 | 557 | 0.00399 U | 2010 | 144 | 17.8 | 496 |
| Hexachlorodibenzo-p-dioxin homologs | 34465-46-8 | pg/g | 29 | 29 | 100 | 0.0578 JT | 1210 | 85.4 | 24.6 | 330 | 0.0578 JT | 1210 | 85.4 | 24.6 | 330 |
| Octachlorodibenzofuran | 39001-02-0 | pg/g | 29 | 25 | 86.2 | 0.411 J | 7420 | 495 | 48.3 | 2120 | 0.0107 UT | 7420 | 426 | 38.7 | 1740 |
| Octachlorodibenzo-p-dioxin | 3268-87-9 | pg/g | 29 | 25 | 86.2 | 8.43 | 59500 J | 4110 | 636 | 15200 | 0.365 UT | 59500 J | 3540 | 537 | 12500 |
| Pentachlorodibenzofuran homologs | 30402-15-4 | pg/g | 29 | 25 | 86.2 | 0.108 J | 443 | 82.6 | 24.9 | 354 | 0.00345 UT | 443 | 71.2 | 11.3 | 340 |
| Pentachlorodibenzo-p-dioxin homologs | 36088-22-9 | pg/g | 29 | 23 | 79.3 | 0.152 J | 129 | 13 | 3.05 | 55.3 | 0.0044 U | 129 | 10.3 | 2.25 | 45.5 |
| Tetrachlorodibenzofuran homologs | 30402-14-3 | pg/g | 29 | 25 | 86.2 | 0.05 J | 351 | 42.6 | 11.1 | 197 | 0.00322 U | 351 | 36.7 | 7.95 | 179 |
| Tetrachlorodibenzo-p-dioxin homologs | 41903-57-5 | pg/g | 29 | 25 | 86.2 | 0.0537 JT | 26.6 | 3.9 | 0.81 | 11.8 | 0.00219 U | 26.6 | 3.37 | 0.692 | 11.7 |
| Total PCDD/F | TOTPCDD_F | pg/g | 29 | 29 | 100 | 0.0578 JT | 87600 JT | 5360 | 936 | 19700 | 0.0578 JT | 87600 JT | 5360 | 936 | 19700 |
| **Grain Size** | | | | | | | | | | | | | | | |
| >9 Phi clay | GS_MFCLAY | percent | 207 | 207 | 100 | 0.06 | 20.6 | 6.05 | 6.15 | 12.6 | 0.06 | 20.6 | 6.05 | 6.15 | 12.6 |
| 8-9 Phi clay | GS_CCLAY | percent | 207 | 207 | 100 | | 11.3 | 3.41 | 3.55 | 7.12 | 0 | 11.3 | 3.41 | 3.55 | 7.12 |
| Coarse sand | GS_CS | percent | 207 | 207 | 100 | 0.12 | 43.2 | 5.84 | 1.82 | 28.8 | 0.12 | 43.2 | 5.84 | 1.82 | 28.8 |
| Coarse silt | GS_CSILT | percent | 207 | 207 | 100 | 0.03 T | 54.4 | 14.3 | 14.7 | 28.8 | 0.03 T | 54.4 | 14.3 | 14.7 | 28.8 |
| Fine gravel | GS_FG | percent | 207 | 207 | 100 | | 18.3 T | 1.82 | 0.9 | 7.6 | 0 | 18.3 T | 1.82 | 0.9 | 7.6 |

Table 4-4. Summary Statistics for Round 3B Subsurface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| Fine sand | GS_FS | percent | 207 | 207 | 100 | 0.527 T | 60.7 | 11.3 | 7.76 | 34.2 | 0.527 T | 60.7 | 11.3 | 7.76 | 34.2 |
| Fine silt | GS_FSILT | percent | 207 | 207 | 100 | | 27.4 | 8.91 | 9.43 | 18.1 | 0 | 27.4 | 8.91 | 9.43 | 18.1 |
| Fines | GS_FINES | percent | 207 | 207 | 100 | 0.29 T | 94.1 T | 50.8 | 60.8 | 87.8 | 0.29 T | 94.1 T | 50.8 | 60.8 | 87.8 |
| Medium gravel | GS_MG | percent | 207 | 207 | 100 | | 36.6 JT | 1.69 | 0.14 | 10.8 | 0 | 36.6 JT | 1.69 | 0.14 | 10.8 |
| Medium sand | GS_MS | percent | 207 | 207 | 100 | 0.24 | 87.2 | 16.4 | 5.07 | 69.4 | 0.24 | 87.2 | 16.4 | 5.07 | 69.4 |
| Medium silt | GS_MSILT | percent | 207 | 207 | 100 | | 41.9 | 12.5 | 14 | 23.8 | 0 | 41.9 | 12.5 | 14 | 23.8 |
| Very coarse sand | GS_VCS | percent | 207 | 207 | 100 | 0.01 | 17.1 T | 1.87 | 1.12 | 6.1 | 0.01 | 17.1 T | 1.87 | 1.12 | 6.1 |
| Very fine sand | GS_VFS | percent | 207 | 207 | 100 | 0.07 T | 29.5 | 10.9 | 10.6 | 23.7 | 0.07 T | 29.5 | 10.9 | 10.6 | 23.7 |
| Very fine silt | GS_VFSILT | percent | 207 | 207 | 100 | T | 16.4 | 5.55 | 5.85 | 11.3 | 0 T | 16.4 | 5.55 | 5.85 | 11.3 |
| **Metals** | | | | | | | | | | | | | | | |
| Aluminum | 7429-90-5 | mg/kg | 216 | 216 | 100 | 5940 | 37800 | 22500 | 24500 | 32400 | 5940 | 37800 | 22500 | 24500 | 32400 |
| Antimony | 7440-36-0 | mg/kg | 216 | 216 | 100 | 0.02 J | 6.59 J | 0.403 | 0.253 | 0.726 | 0.02 J | 6.59 J | 0.403 | 0.253 | 0.726 |
| Arsenic | 7440-38-2 | mg/kg | 216 | 216 | 100 | 0.8 | 51.4 | 3.45 | 3.11 | 5.69 | 0.8 | 51.4 | 3.45 | 3.11 | 5.69 |
| Cadmium | 7440-43-9 | mg/kg | 216 | 213 | 98.6 | 0.016 J | 43.7 | 0.477 | 0.226 | 0.757 | 0.016 J | 43.7 | 0.471 | 0.222 | 0.756 |
| Chromium | 7440-47-3 | mg/kg | 216 | 206 | 95.4 | 5.19 | 180 | 23.6 | 23.6 | 34.9 | 5.19 | 180 | 23.4 | 23.5 | 34.6 |
| Copper | 7440-50-8 | mg/kg | 216 | 216 | 100 | 9.48 | 2510 | 58.9 | 35.9 | 73.1 | 9.48 | 2510 | 58.9 | 35.9 | 73.1 |
| Lead | 7439-92-1 | mg/kg | 216 | 216 | 100 | 1.36 | 711 | 31.9 | 19.3 | 80.1 | 1.36 | 711 | 31.9 | 19.3 | 80.1 |
| Mercury | 7439-97-6 | mg/kg | 216 | 213 | 98.6 | 0.006 J | 16.8 | 0.263 | 0.0798 | 0.522 | 0.005 UJ | 16.8 | 0.26 | 0.0788 | 0.51 |
| Nickel | 7440-02-0 | mg/kg | 216 | 216 | 100 | 9.64 | 57.3 | 22.3 | 22.9 | 29.2 | 9.64 | 57.3 | 22.3 | 22.9 | 29.2 |
| Silver | 7440-22-4 | mg/kg | 216 | 216 | 100 | 0.03 | 7.18 | 0.401 | 0.28 | 0.902 | 0.03 | 7.18 | 0.401 | 0.28 | 0.902 |
| Zinc | 7440-66-6 | mg/kg | 216 | 216 | 100 | 37.1 | 1100 | 131 | 116 | 253 | 37.1 | 1100 | 131 | 116 | 253 |
| **PAHs** | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 90-12-0 | ug/kg | 216 | 176 | 81.5 | 0.33 J | 1300000 | 8420 | 7.65 | 1280 | 0.31 U | 1300000 | 6860 | 4.55 | 843 |
| 2-Methylnaphthalene | 91-57-6 | ug/kg | 216 | 178 | 82.4 | 0.39 J | 2200000 | 13900 | 13 | 711 | 0.39 U | 2200000 | 11400 | 8.05 | 465 |
| Acenaphthene | 83-32-9 | ug/kg | 216 | 185 | 85.6 | 0.23 J | 2200000 | 13200 | 16 | 2260 | 0.23 U | 2200000 | 11300 | 12 | 1550 |
| Acenaphthylene | 208-96-8 | ug/kg | 216 | 174 | 80.6 | 0.26 J | 92000 J | 1280 | 8.45 | 150 | 0.24 U | 92000 J | 1030 | 6.15 | 120 |
| Anthracene | 120-12-7 | ug/kg | 216 | 176 | 81.5 | 0.47 J | 830000 | 6030 | 18 | 1530 | 0.47 U | 830000 | 4910 | 11 | 1020 |
| Benzo(a)anthracene | 56-55-3 | ug/kg | 216 | 185 | 85.6 | 0.5 JT | 490000 | 3690 | 50 | 2260 | 0.48 U | 490000 | 3160 | 38 | 1300 |
| Benzo(a)pyrene | 50-32-8 | ug/kg | 216 | 186 | 86.1 | 0.25 J | 570000 | 4220 | 63 | 2900 | 0.14 U | 570000 | 3630 | 46 | 1630 |
| Benzo(b)fluoranthene | 205-99-2 | ug/kg | 216 | 186 | 86.1 | 0.31 J | 520000 | 3900 | 74 | 2650 | 0.25 U | 520000 | 3360 | 58.5 | 1680 |
| Benzo(e)pyrene | 192-97-2 | ug/kg | 123 | 104 | 84.6 | 0.52 J | 340000 | 4400 | 52 | 2340 | 0.18 U | 340000 | 3720 | 40 | 1890 |
| Benzo(g,h,i)perylene | 191-24-2 | ug/kg | 216 | 180 | 83.3 | 0.65 J | 380000 | 3010 | 55 | 2010 | 0.64 U | 380000 | 2510 | 36.5 | 1380 |
| Benzo(k)fluoranthene | 207-08-9 | ug/kg | 216 | 184 | 85.2 | 0.22 J | 150000 | 1160 | 26 | 866 | 0.15 U | 150000 | 987 | 18 | 553 |
| C1-Chrysene | C1_218-01-9 | ug/kg | 123 | 103 | 83.7 | 0.61 J | 210000 | 3060 | 60 | 2870 | 0.25 U | 210000 | 2560 | 46 | 1670 |
| C1-Dibenzothiophene | C1_132-65-0 | ug/kg | 123 | 96 | 78 | 1.2 J | 68000 | 1020 | 27 | 1400 | 0.21 U | 68000 | 794 | 12 | 864 |
| C1-Fluoranthene/pyrene | C1_FLRANPYRN | ug/kg | 123 | 104 | 84.6 | 0.84 J | 510000 | 7100 | 84 | 5760 | 0.61 U | 510000 | 6010 | 58 | 3290 |
| C1-Fluorene | C1_86-73-7 | ug/kg | 123 | 99 | 80.5 | 0.52 J | 150000 | 2140 | 16 | 1530 | 0.5 U | 150000 | 1720 | 7.1 | 1350 |
| C1-Phenanthrene/anthracene | C1_PHANANTH | ug/kg | 123 | 102 | 82.9 | 0.95 J | 880000 | 12600 | 90.5 | 7300 | 0.75 U | 880000 | 10500 | 39 | 5450 |
| C2-Chrysene | C2_218-01-9 | ug/kg | 123 | 99 | 80.5 | 0.87 J | 97000 | 1560 | 52 | 2010 | 0.25 U | 97000 | 1260 | 36 | 1180 |
| C2-Dibenzothiophene | C2_132-65-0 | ug/kg | 123 | 97 | 78.9 | 1.4 J | 140000 | 2310 | 40 | 2900 | 0.21 U | 140000 | 1820 | 19 | 1370 |
| C2-Fluoranthene/pyrene | C2_FLRANPYRN | ug/kg | 123 | 102 | 82.9 | 0.88 J | 210000 | 3140 | 64.5 | 2880 | 0.61 U | 210000 | 2600 | 41 | 2420 |
| C2-Fluorene | C2_86-73-7 | ug/kg | 123 | 99 | 80.5 | 0.72 J | 180000 | 2720 | 44 | 2840 | 0.5 U | 180000 | 2190 | 18 | 1860 |
| C2-Naphthalene | C2_91-20-3 | ug/kg | 123 | 106 | 86.2 | 0.47 J | 1300000 | 14900 | 22.5 | 6530 | 0.37 U | 1300000 | 12900 | 16 | 4610 |
| C2-Phenanthrene/anthracene | C2_PHANANTH | ug/kg | 123 | 103 | 83.7 | 1 J | 370000 | 5670 | 96 | 6110 | 0.75 U | 370000 | 4750 | 45 | 3470 |
| C3-Chrysene | C3_218-01-9 | ug/kg | 123 | 96 | 78 | 3.3 | 46000 | 825 | 42.5 | 1130 | 0.25 U | 46000 | 644 | 27 | 944 |
| C3-Dibenzothiophene | C3_132-65-0 | ug/kg | 123 | 96 | 78 | 1.6 J | 87000 | 1110 | 43 | 998 | 0.21 U | 87000 | 865 | 18 | 804 |
| C3-Fluoranthene/pyrene | C3_FLRANPYRN | ug/kg | 123 | 97 | 78.9 | 1.3 J | 89000 | 1550 | 51 | 1940 | 0.61 U | 89000 | 1230 | 32 | 1360 |
| C3-Fluorene | C3_86-73-7 | ug/kg | 123 | 97 | 78.9 | 2 J | 170000 | 2840 | 62 | 2740 | 0.5 U | 170000 | 2240 | 28 | 2390 |
| C3-Naphthalene | C3_91-20-3 | ug/kg | 123 | 103 | 83.7 | 0.48 J | 570000 | 7490 | 52 | 5770 | 0.37 U | 570000 | 6270 | 17 | 5400 |
| C3-Phenanthrene/anthracene | C3_PHANANTH | ug/kg | 123 | 104 | 84.6 | 0.84 J | 230000 | 3570 | 93 | 3600 | 0.75 U | 230000 | 3020 | 51 | 1900 |
| C4-Chrysene | C4_218-01-9 | ug/kg | 123 | 61 | 49.6 | 11 | 6900 | 209 | 38 | 490 | 0.25 U | 6900 | 108 | 12 | 288 |
| C4-Naphthalene | C4_91-20-3 | ug/kg | 123 | 99 | 80.5 | 0.74 J | 290000 | 4100 | 61 | 4500 | 0.37 U | 290000 | 3300 | 26 | 3100 |

Table 4-4. Summary Statistics for Round 3B Subsurface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| C4-Phenanthrene/anthracene | C4_PHANANTH | ug/kg | 123 | 97 | 78.9 | 1.1 J | 95000 | 1550 | 46 | 1300 | 0.75 U | 95000 | 1220 | 29 | 1200 |
| Chrysene | 218-01-9 | ug/kg | 216 | 185 | 85.6 | 0.29 J | 530000 | 4080 | 66 | 2660 | 0.25 U | 530000 | 3490 | 51 | 1400 |
| Dibenzo(a,h)anthracene | 53-70-3 | ug/kg | 216 | 172 | 79.6 | 0.29 J | 44000 | 373 | 9.25 | 330 | 0.28 U | 44000 | 297 | 6.1 | 155 |
| Dibenzothiophene | 132-65-0 | ug/kg | 216 | 171 | 79.2 | 0.21 J | 570000 | 4200 | 11 | 890 | 0.21 U | 570000 | 3330 | 5.3 | 690 |
| Fluoranthene | 206-44-0 | ug/kg | 216 | 186 | 86.1 | 0.67 JT | 1900000 | 14000 | 145 | 7250 | 0.61 U | 1900000 | 12000 | 97 | 5830 |
| Fluorene | 86-73-7 | ug/kg | 216 | 171 | 79.2 | 0.53 J | 860000 | 6160 | 19 | 2100 | 0.5 U | 860000 | 4870 | 11 | 1030 |
| High Molecular Weight PAH | HPAH | ug/kg | 216 | 195 | 90.3 | 0.31 JT | 7000000 T | 62500 | 630 | 25300 | 0.31 JT | 7000000 T | 56400 | 475 | 17500 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/kg | 216 | 179 | 82.9 | 0.19 J | 410000 | 3180 | 57 | 2410 | 0.16 U | 410000 | 2630 | 37 | 1300 |
| Low Molecular Weight PAH | LPAH | ug/kg | 216 | 197 | 91.2 | 0.39 JT | 22000000 T | 150000 | 170 | 14000 | 0.39 JT | 22000000 T | 137000 | 150 | 12300 |
| Naphthalene | 91-20-3 | ug/kg | 216 | 169 | 78.2 | 0.39 J | 12000000 | 76000 | 33 | 1210 | 0.37 U | 12000000 | 59500 | 19.5 | 643 |
| Perylene | 198-55-0 | ug/kg | 123 | 110 | 89.4 | 0.35 J | 140000 | 1730 | 67.5 | 917 | 0.32 U | 140000 | 1550 | 56 | 798 |
| Phenanthrene | 85-01-8 | ug/kg | 216 | 186 | 86.1 | 1 J | 4900000 | 53300 | 100 | 9680 | 0.75 U | 4900000 | 45900 | 68.5 | 7730 |
| Pyrene | 129-00-0 | ug/kg | 216 | 189 | 87.5 | 0.37 J | 2800000 | 27900 | 150 | 6160 | 0.37 U | 2800000 | 24400 | 94.5 | 4830 |
| Total PAHs | 130498-29-2 | ug/kg | 216 | 202 | 93.5 | 0.37 JT | 29000000 T | 206000 | 775 | 37600 | 0.37 JT | 29000000 T | 193000 | 675 | 32000 |
| **PCB Congeners** | | | | | | | | | | | | | | | |
| Dioxin-like PCB congener TCDD toxicity equivalen | TEQ_PCB.0 | pg/g | 93 | 87 | 93.5 | 6.96E-05 JT | 165 T | 5.42 | 1.2 | 10.3 | 0.0000696 JT | 165 T | 5.08 | 0.873 | 9.07 |
| PCB001 | 2051-60-7 | pg/g | 93 | 64 | 68.8 | 5.28 | 5320 T | 176 | 51.7 | 371 | 4.75 UT | 5320 T | 123 | 19.7 | 343 |
| PCB002 | 2051-61-8 | pg/g | 93 | 65 | 69.9 | 5.01 | 599 T | 36.8 | 23.2 | 83.4 | 4.32 U | 599 T | 27.2 | 14.8 | 67.1 |
| PCB003 | 2051-62-9 | pg/g | 93 | 69 | 74.2 | 5.02 | 2650 T | 108 | 41.1 | 285 | 4.75 UT | 2650 T | 81.8 | 20.8 | 249 |
| PCB004 & 010 | PCB004_010 | pg/g | 93 | 61 | 65.6 | 10.1 | 5090 T | 416 | 126 | 2380 | 9.51 UT | 5090 T | 277 | 43.7 | 958 |
| PCB005 & 008 | PCB005_008 | pg/g | 93 | 68 | 73.1 | 13.8 | 15300 T | 1410 | 355 | 7500 | 9.51 UT | 15300 T | 1040 | 173 | 3930 |
| PCB006 | 25569-80-6 | pg/g | 93 | 60 | 64.5 | 10.3 | 3660 | 351 | 128 | 1280 | 9.51 UT | 3660 | 231 | 37.7 | 789 |
| PCB007 & 009 | PCB007_009 | pg/g | 93 | 48 | 51.6 | 10.1 | 1650 T | 148 | 77.2 | 433 | 8.64 U | 1650 T | 83.1 | 12.8 | 278 |
| PCB011 | 2050-67-1 | pg/g | 93 | 54 | 58.1 | 11 | 414 | 117 | 84.5 | 319 | 8.64 U | 414 | 75.5 | 36.5 | 289 |
| PCB012 & 013 | PCB012_013 | pg/g | 93 | 53 | 57 | 13.4 | 998 T | 110 | 79.9 | 247 | 8.64 U | 998 T | 67.5 | 18.8 | 190 |
| PCB014 | 34883-41-5 | pg/g | 93 | 0 | 0 | | | | | | 8.64 U | 103 U | 14.4 | 9.91 | 49.7 |
| PCB015 | 2050-68-2 | pg/g | 93 | 64 | 68.8 | 10.5 | 6140 T | 617 | 269 | 1800 | 9.51 UT | 6140 T | 428 | 156 | 1450 |
| PCB016 & 032 | PCB016_032 | pg/g | 93 | 75 | 80.6 | 5.06 | 25400 | 1820 | 479 | 7480 | 4.75 UT | 25400 | 1470 | 212 | 4750 |
| PCB017 | 37680-66-3 | pg/g | 93 | 69 | 74.2 | 6.54 | 18800 | 1580 | 441 | 6830 | 4.75 UT | 18800 | 1170 | 167 | 4280 |
| PCB018 | 37680-65-2 | pg/g | 93 | 75 | 80.6 | 5.18 | 50300 | 3160 | 659 | 13700 | 4.75 UT | 50300 | 2550 | 384 | 8880 |
| PCB019 | 38444-73-4 | pg/g | 93 | 63 | 67.7 | 5.6 | 2950 | 271 | 78.2 | 1170 | 4.75 UT | 2950 | 185 | 38.7 | 684 |
| PCB020 & 021 & 033 | PCB020_021_033 | pg/g | 93 | 77 | 82.8 | 5.23 | 33300 | 1980 | 485 | 5480 | 4.75 UT | 33300 | 1640 | 316 | 5040 |
| PCB022 | 38444-85-8 | pg/g | 93 | 70 | 75.3 | 5.62 | 19300 | 1200 | 337 | 2950 | 4.75 UT | 19300 | 904 | 171 | 2730 |
| PCB023 | 55720-44-0 | pg/g | 93 | 14 | 15.1 | 5.33 | 62.4 | 16.2 | 8.32 | 56 | 4.32 U | 62.4 | 7.78 | 4.97 | 25.2 |
| PCB024 & 027 | PCB024_027 | pg/g | 93 | 63 | 67.7 | 4.97 | 2180 T | 207 | 62.9 | 964 | 4.75 UT | 2180 T | 142 | 31.3 | 512 |
| PCB025 | 55712-37-3 | pg/g | 93 | 68 | 73.1 | 7.41 | 3940 | 422 | 157 | 1930 | 4.75 UT | 3940 | 310 | 61.4 | 1340 |
| PCB026 | 38444-81-4 | pg/g | 93 | 69 | 74.2 | 6.22 | 6270 | 682 | 204 | 3080 | 4.75 UT | 6270 | 507 | 95.1 | 2140 |
| PCB028 | 7012-37-5 | pg/g | 93 | 77 | 82.8 | 6.46 | 70500 | 4480 | 1440 | 16600 | 4.75 UT | 70500 | 3710 | 737 | 13000 |
| PCB029 | 15862-07-4 | pg/g | 93 | 29 | 31.2 | 6.31 | 217 T | 29 | 17.2 | 84.8 | 4.32 U | 217 T | 13.4 | 4.99 | 41 |
| PCB030 | 35693-92-6 | pg/g | 93 | 2 | 2.15 | 9.65 | 20.3 JT | 15 | 15 | 19.8 | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB031 | 16606-02-3 | pg/g | 93 | 76 | 81.7 | 5.44 | 60600 | 3710 | 912 | 13300 | 4.75 UT | 60600 | 3040 | 489 | 10000 |
| PCB034 | 37680-68-5 | pg/g | 93 | 53 | 57 | 5.18 | 732 T | 76.8 | 39.2 | 319 | 4.75 UT | 732 T | 46.1 | 8.28 | 154 |
| PCB035 | 37680-69-6 | pg/g | 93 | 60 | 64.5 | 4.93 | 532 T | 50.2 | 34.5 | 137 | 4.75 UT | 532 T | 34.4 | 12.3 | 97 |
| PCB036 | 38444-87-0 | pg/g | 93 | 8 | 8.6 | 5.35 | 36.6 | 12.6 | 6.4 | 32.6 | 4.32 U | 51.6 U | 7.66 | 4.96 | 25.2 |
| PCB037 | 38444-90-5 | pg/g | 93 | 71 | 76.3 | 6.7 | 12900 T | 931 | 431 | 2380 | 4.75 UT | 12900 T | 712 | 238 | 2010 |
| PCB038 | 53555-66-1 | pg/g | 93 | 56 | 60.2 | 5.02 | 1080 | 88.1 | 36.5 | 251 | 4.75 UT | 1080 | 55.2 | 15 | 133 |
| PCB039 | 38444-88-1 | pg/g | 93 | 50 | 53.8 | 5.04 | 353 | 38.2 | 22.7 | 127 | 4.75 UT | 353 | 23.1 | 6.06 | 69.6 |
| PCB040 | 38444-93-8 | pg/g | 93 | 69 | 74.2 | 5.29 | 6940 T | 619 | 264 | 2610 | 4.75 UT | 6940 T | 461 | 126 | 1690 |
| PCB041 & 064 & 071 & 072 | PCB041_064_071_ | pg/g | 93 | 77 | 82.8 | 6.18 | 111000 | 4970 | 1250 | 12300 | 4.75 UT | 111000 | 4110 | 786 | 8680 |
| PCB042 & 059 | PCB042_059 | pg/g | 93 | 72 | 77.4 | 5.98 | 32500 T | 1640 | 547 | 4620 | 4.75 UT | 32500 T | 1270 | 252 | 3130 |
| PCB043 & 049 | PCB043_049 | pg/g | 93 | 77 | 82.8 | 5.23 | 150000 T | 6910 | 1750 | 11800 | 4.75 UT | 150000 T | 5720 | 934 | 10600 |
| PCB044 | 41464-39-5 | pg/g | 93 | 78 | 83.9 | 4.98 | 193000 | 7250 | 1430 | 14500 | 4.75 UT | 193000 | 6080 | 836 | 12300 |

Table 4-4. Summary Statistics for Round 3B Subsurface Sediment Samples

| | | | | | | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **N Detected** | **% Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| PCB045 | 70362-45-7 | pg/g | 93 | 68 | 73.1 | 7 | 13800 | 787 | 233 | 2560 | 4.75 UT | 13800 | 576 | 107 | 1690 |
| PCB046 | 41464-47-5 | pg/g | 93 | 66 | 71 | 5.48 | 6010 | 401 | 119 | 1100 | 4.75 UT | 6010 | 286 | 49.8 | 999 |
| PCB047 | 2437-79-8 | pg/g | 93 | 76 | 81.7 | 4.82 T | 43100 T | 2250 | 720 | 5410 | 4.78 U | 43100 T | 1840 | 335 | 4040 |
| PCB048 & 075 | PCB048_075 | pg/g | 93 | 69 | 74.2 | 8.2 | 22200 | 1220 | 329 | 3260 | 4.75 UT | 22200 | 906 | 143 | 2430 |
| PCB050 | 62796-65-0 | pg/g | 93 | 43 | 46.2 | 5.36 | 404 T | 38.5 | 15.5 | 158 | 4.32 U | 404 T | 20.9 | 5.06 | 48.1 |
| PCB051 | 68194-04-7 | pg/g | 93 | 67 | 72 | 6.57 | 4420 T | 380 | 145 | 2110 | 4.75 UT | 4420 T | 275 | 67.2 | 837 |
| PCB052 & 069 | PCB052_069 | pg/g | 93 | 79 | 84.9 | 5.4 | 304000 | 10600 | 2000 | 16700 | 4.75 UT | 304000 | 9030 | 1220 | 16200 |
| PCB053 | 41464-41-9 | pg/g | 93 | 71 | 76.3 | 5.79 | 16100 | 987 | 295 | 2670 | 4.75 UT | 16100 | 754 | 168 | 2300 |
| PCB054 | 15968-05-5 | pg/g | 93 | 46 | 49.5 | 5.11 | 195 T | 26.3 | 10.6 | 160 | 4.32 U | 195 T | 16.4 | 5.53 | 54.8 |
| PCB055 | 74338-24-2 | pg/g | 93 | 62 | 66.7 | 5.64 | 2200 | 113 | 34.3 | 181 | 4.75 UT | 2200 | 77.2 | 15 | 145 |
| PCB056 & 060 | PCB056_060 | pg/g | 93 | 73 | 78.5 | 9.74 | 69600 | 3150 | 930 | 7720 | 4.75 UT | 69600 | 2470 | 522 | 6120 |
| PCB057 | 70424-67-8 | pg/g | 93 | 54 | 58.1 | 5.05 | 520 T | 49.8 | 22.5 | 183 | 4.75 UT | 520 T | 31.2 | 8.57 | 78.8 |
| PCB058 | 41464-49-7 | pg/g | 93 | 57 | 61.3 | 5.2 | 1490 T | 73.6 | 28.7 | 116 | 4.75 UT | 1490 T | 47.3 | 8.37 | 76.5 |
| PCB061 & 070 | PCB061_070 | pg/g | 93 | 80 | 86 | 4.9 | 261000 | 9420 | 2070 | 16300 | 4.75 UT | 261000 | 8110 | 1130 | 15300 |
| PCB062 | 54230-22-7 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB063 | 74472-34-7 | pg/g | 93 | 67 | 72 | 5.19 | 6470 T | 335 | 94.4 | 681 | 4.75 UT | 6470 T | 242 | 39.2 | 468 |
| PCB065 | 33284-54-7 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB066 & 076 | PCB066_076 | pg/g | 93 | 77 | 82.8 | 4.99 | 146000 | 6450 | 1790 | 13100 | 4.75 UT | 146000 | 5340 | 990 | 10200 |
| PCB067 | 73575-53-8 | pg/g | 93 | 66 | 71 | 5 | 1950 | 144 | 57.9 | 356 | 4.75 UT | 1950 | 104 | 23 | 309 |
| PCB068 | 73575-52-7 | pg/g | 93 | 64 | 68.8 | 5.15 | 3810 T | 153 | 50.2 | 279 | 4.75 UT | 3810 T | 107 | 25.4 | 161 |
| PCB073 | 74338-23-1 | pg/g | 93 | 1 | 1.08 | 7.02 | 7.02 | 7.02 | 7.02 | | 4.32 U | 51.6 U | 7.23 | 4.96 | 24.9 |
| PCB074 | 32690-93-0 | pg/g | 93 | 72 | 77.4 | 6.79 | 75900 | 3200 | 799 | 6450 | 4.75 UT | 75900 | 2480 | 375 | 5100 |
| PCB077 | 32598-13-3 | pg/g | 93 | 71 | 76.3 | 1.21 JT | 6970 T | 434 | 176 | 1120 | 0.839 U | 6970 T | 332 | 105 | 818 |
| PCB078 | 70362-49-1 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB079 | 41464-48-6 | pg/g | 93 | 66 | 71 | 6.89 | 4940 | 233 | 68.5 | 309 | 4.75 UT | 4940 | 167 | 34.2 | 293 |
| PCB080 | 33284-52-5 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB081 | 70362-50-4 | pg/g | 93 | 55 | 59.1 | 0.896 J | 650 | 31.1 | 9.89 | 68.6 | 0.336 UT | 650 | 19.2 | 3.97 | 41.3 |
| PCB082 | 52663-62-4 | pg/g | 93 | 69 | 74.2 | 7.67 | 53400 | 1850 | 328 | 2920 | 4.75 UT | 53400 | 1370 | 161 | 2490 |
| PCB083 | 60145-20-2 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB084 & 092 | PCB084_092 | pg/g | 93 | 76 | 81.7 | 5.91 | 208000 | 7660 | 1670 | 13400 | 4.75 UT | 208000 | 6260 | 1050 | 12500 |
| PCB085 & 116 | PCB085_116 | pg/g | 93 | 72 | 77.4 | 5.84 | 74100 | 2440 | 437 | 3760 | 4.75 UT | 74100 | 1890 | 232 | 3020 |
| PCB086 | 55312-69-1 | pg/g | 93 | 52 | 55.9 | 5.09 | 1290 | 72.2 | 21.3 | 155 | 4.32 U | 1290 | 43.3 | 7.45 | 86.2 |
| PCB087 & 117 & 125 | PCB087_117_125 | pg/g | 93 | 74 | 79.6 | 7.57 | 183000 | 5610 | 851 | 10100 | 4.75 UT | 183000 | 4470 | 438 | 6500 |
| PCB088 & 091 | PCB088_091 | pg/g | 93 | 75 | 80.6 | 6.84 | 62700 | 2460 | 613 | 3970 | 4.75 UT | 62700 | 1990 | 362 | 3770 |
| PCB089 | 73575-57-2 | pg/g | 93 | 64 | 68.8 | 5.14 | 3940 | 179 | 45.7 | 270 | 4.75 UT | 3940 | 125 | 20.6 | 245 |
| PCB090 & 101 | PCB090_101 | pg/g | 93 | 83 | 89.2 | 5.06 T | 511000 | 16900 | 3140 | 29400 | 4.78 U | 511000 | 15100 | 2640 | 28600 |
| PCB093 | 73575-56-1 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB094 | 73575-55-0 | pg/g | 93 | 58 | 62.4 | 5.79 J | 1870 T | 109 | 29.6 | 292 | 4.75 UT | 1870 T | 69.6 | 15.2 | 108 |
| PCB095 & 098 & 102 | PCB095_098_102 | pg/g | 93 | 79 | 84.9 | 6.05 | 405000 | 14000 | 2750 | 23200 | 4.75 UT | 405000 | 11900 | 1980 | 19700 |
| PCB096 | 73575-54-9 | pg/g | 93 | 65 | 69.9 | 5.38 | 2910 T | 156 | 40.1 | 372 | 4.75 UT | 2910 T | 111 | 20.4 | 241 |
| PCB097 | 41464-51-1 | pg/g | 93 | 73 | 78.5 | 7.32 | 152000 | 5190 | 847 | 7690 | 4.75 UT | 152000 | 4080 | 411 | 5550 |
| PCB099 | 38380-01-7 | pg/g | 93 | 77 | 82.8 | 5.76 | 208000 | 7840 | 1760 | 12600 | 4.75 UT | 208000 | 6490 | 1160 | 11900 |
| PCB100 | 39485-83-1 | pg/g | 93 | 66 | 71 | 4.92 | 2330 T | 162 | 54.9 | 506 | 4.75 UT | 2330 T | 117 | 30.8 | 321 |
| PCB103 | 60145-21-3 | pg/g | 93 | 71 | 76.3 | 5.11 | 8040 T | 339 | 110 | 1230 | 4.75 UT | 8040 T | 260 | 74.4 | 720 |
| PCB104 | 56558-16-8 | pg/g | 93 | 6 | 6.45 | 6.03 | 90.7 | 31.4 | 15 | 81.8 | 4.32 U | 90.7 | 8.7 | 4.96 | 25.2 |
| PCB105 | 32598-14-4 | pg/g | 93 | 82 | 88.2 | 0.933 JT | 118000 | 3390 | 564 | 7140 | 0.933 JT | 118000 | 2990 | 370 | 5040 |
| PCB106 & 118 | PCB106_118 | pg/g | 93 | 86 | 92.5 | 2.04 JT | 425000 | 12300 | 1660 | 18500 | 1.45 U | 425000 | 11400 | 1230 | 14800 |
| PCB107 & 109 | PCB107_109 | pg/g | 93 | 72 | 77.4 | 8.16 | 32100 T | 1270 | 303 | 1770 | 4.75 UT | 32100 T | 988 | 159 | 1600 |
| PCB108 & 112 | PCB108_112 | pg/g | 93 | 70 | 75.3 | 5.67 | 22700 | 892 | 173 | 1190 | 4.75 UT | 22700 | 673 | 76.9 | 1080 |
| PCB110 | 38380-03-9 | pg/g | 93 | 81 | 87.1 | 4.88 T | 624000 | 19400 | 3330 | 30700 | 4.78 U | 624000 | 16900 | 1990 | 22800 |
| PCB111 & 115 | PCB111_115 | pg/g | 93 | 66 | 71 | 5.2 | 7050 | 251 | 43.9 | 426 | 4.75 UT | 7050 | 180 | 22.2 | 320 |
| PCB113 | 68194-10-5 | pg/g | 93 | 57 | 61.3 | 5.08 | 1100 T | 77.2 | 29.1 | 258 | 4.75 UT | 1100 T | 49.5 | 12.5 | 140 |
| PCB114 | 74472-37-0 | pg/g | 93 | 67 | 72 | 1.43 J | 7160 | 257 | 42.5 | 463 | 0.566 UT | 7160 | 186 | 25.2 | 338 |

Table 4-4. Summary Statistics for Round 3B Subsurface Sediment Samples

| | | | | | | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **N Detected** | **% Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| PCB119 | 56558-17-9 | pg/g | 93 | 71 | 76.3 | 6.43 | 16900 T | 642 | 183 | 1120 | 4.75 UT | 16900 T | 492 | 101 | 753 |
| PCB120 | 68194-12-7 | pg/g | 93 | 60 | 64.5 | 5.01 | 2250 T | 112 | 32.3 | 143 | 4.75 UT | 2250 T | 74 | 13.4 | 135 |
| PCB121 | 56558-18-0 | pg/g | 93 | 4 | 4.3 | 7.17 | 106 | 44.2 | 31.8 | 98.4 | 4.32 U | 106 | 8.9 | 4.96 | 25.2 |
| PCB122 | 76842-07-4 | pg/g | 93 | 64 | 68.8 | 5.79 | 3240 | 134 | 29.8 | 228 | 4.75 UT | 3240 | 93.7 | 14.5 | 175 |
| PCB123 | 65510-44-3 | pg/g | 93 | 66 | 71 | 1.87 J | 5200 | 184 | 36.5 | 312 | 0.569 UT | 5200 | 131 | 20.3 | 199 |
| PCB124 | 70424-70-3 | pg/g | 93 | 65 | 69.9 | 5.99 | 15400 | 536 | 97.1 | 1060 | 4.75 UT | 15400 | 376 | 45.4 | 555 |
| PCB126 | 57465-28-8 | pg/g | 93 | 67 | 72 | 1 J | 1460 | 62.7 | 15.9 | 126 | 0.642 UT | 1460 | 45.7 | 7.99 | 82.2 |
| PCB127 | 39635-33-1 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB128 & 162 | PCB128_162 | pg/g | 93 | 74 | 79.6 | 5.64 | 63800 | 2250 | 428 | 3880 | 4.75 UT | 63800 | 1790 | 319 | 2750 |
| PCB129 | 55215-18-4 | pg/g | 93 | 70 | 75.3 | 5.09 | 18900 | 679 | 118 | 1280 | 4.75 UT | 18900 | 512 | 76.3 | 783 |
| PCB130 | 52663-66-8 | pg/g | 93 | 72 | 77.4 | 10.2 | 29400 T | 1130 | 303 | 1920 | 4.75 UT | 29400 T | 874 | 185 | 1800 |
| PCB131 | 61798-70-7 | pg/g | 93 | 5 | 5.38 | 8.08 | 90.7 | 39 | 18.1 | 84.9 | 4.32 U | 90.7 | 8.35 | 4.96 | 25 |
| PCB132 & 161 | PCB132_161 | pg/g | 93 | 76 | 81.7 | 6.43 | 122000 T | 4640 | 1030 | 9170 | 4.75 UT | 122000 T | 3790 | 771 | 8520 |
| PCB133 & 142 | PCB133_142 | pg/g | 93 | 72 | 77.4 | 7.02 | 12000 T | 612 | 202 | 1430 | 4.75 UT | 12000 T | 475 | 97.2 | 1340 |
| PCB134 & 143 | PCB134_143 | pg/g | 93 | 71 | 76.3 | 5.27 | 22600 T | 927 | 195 | 1740 | 4.75 UT | 22600 T | 709 | 139 | 1600 |
| PCB135 | 52744-13-5 | pg/g | 93 | 75 | 80.6 | 5.59 | 61400 T | 2540 | 835 | 5820 | 4.75 UT | 61400 T | 2050 | 443 | 4450 |
| PCB136 | 38411-22-2 | pg/g | 93 | 75 | 80.6 | 6.21 | 58700 T | 2360 | 676 | 5000 | 4.75 UT | 58700 T | 1900 | 449 | 4070 |
| PCB137 | 35694-06-5 | pg/g | 93 | 70 | 75.3 | 5.95 | 23300 | 760 | 116 | 1340 | 4.75 UT | 23300 | 573 | 63.3 | 763 |
| PCB138 & 163 & 164 | PCB138_163_164 | pg/g | 93 | 84 | 90.3 | 5.1 T | 378000 T | 13200 | 3100 | 27900 | 4.78 U | 378000 T | 12000 | 2780 | 27100 |
| PCB139 & 149 | PCB139_149 | pg/g | 93 | 81 | 87.1 | 5.93 T | 358000 T | 13000 | 3600 | 27100 | 4.78 U | 358000 T | 11300 | 2740 | 23400 |
| PCB140 | 59291-64-4 | pg/g | 93 | 68 | 73.1 | 4.97 | 4170 T | 216 | 68.1 | 496 | 4.75 UT | 4170 T | 159 | 31.6 | 454 |
| PCB141 | 52712-04-6 | pg/g | 93 | 73 | 78.5 | 7.79 | 62000 T | 2560 | 662 | 5240 | 4.75 UT | 62000 T | 2010 | 459 | 4890 |
| PCB144 | 68194-14-9 | pg/g | 93 | 69 | 74.2 | 5.57 | 16900 T | 724 | 182 | 1360 | 4.75 UT | 16900 T | 538 | 119 | 1230 |
| PCB145 | 74472-40-5 | pg/g | 93 | 6 | 6.45 | 5.41 | 184 | 62.1 | 11.1 | 176 | 4.32 U | 184 | 10.2 | 4.96 | 25 |
| PCB146 & 165 | PCB146_165 | pg/g | 93 | 76 | 81.7 | 6.38 | 65200 T | 2980 | 1130 | 6870 | 4.75 UT | 65200 T | 2430 | 581 | 6560 |
| PCB147 | 68194-13-8 | pg/g | 93 | 69 | 74.2 | 5.16 | 9900 | 454 | 108 | 754 | 4.75 UT | 9900 | 338 | 73.7 | 676 |
| PCB148 | 74472-41-6 | pg/g | 93 | 60 | 64.5 | 5.71 | 1070 | 103 | 37.5 | 355 | 4.75 UT | 1070 | 68.9 | 15.2 | 310 |
| PCB150 | 68194-08-1 | pg/g | 93 | 58 | 62.4 | 5.59 | 662 | 76.3 | 25.3 | 438 | 4.75 UT | 662 | 49.6 | 12.3 | 230 |
| PCB151 | 52663-63-5 | pg/g | 93 | 75 | 80.6 | 10.2 | 95600 T | 3760 | 1330 | 8810 | 4.75 UT | 95600 T | 3040 | 782 | 6520 |
| PCB152 | 68194-09-2 | pg/g | 93 | 24 | 25.8 | 5.02 | 427 | 47.8 | 9.08 | 354 | 4.32 U | 427 | 17.1 | 4.99 | 26.2 |
| PCB153 | 35065-27-1 | pg/g | 93 | 81 | 87.1 | 6.72 T | 358000 T | 13500 | 3650 | 26700 | 4.78 U | 358000 T | 11700 | 3040 | 25300 |
| PCB154 | 60145-22-4 | pg/g | 93 | 72 | 77.4 | 7.07 | 9000 T | 557 | 197 | 2220 | 4.75 UT | 9000 T | 432 | 105 | 1400 |
| PCB155 | 33979-03-2 | pg/g | 93 | 8 | 8.6 | 4.94 | 36.2 | 14 | 11.7 | 31.1 | 4.32 U | 51.6 U | 7.78 | 4.97 | 25 |
| PCB156 | 38380-08-4 | pg/g | 93 | 80 | 86 | 0.614 J | 38600 | 1330 | 259 | 2370 | 0.431 U | 38600 | 1140 | 206 | 1900 |
| PCB157 | 69782-90-7 | pg/g | 93 | 72 | 77.4 | 0.612 J | 8420 | 293 | 50.8 | 502 | 0.4 U | 8420 | 227 | 30.6 | 299 |
| PCB158 & 160 | PCB158_160 | pg/g | 93 | 73 | 78.5 | 5.66 | 41300 | 1600 | 308 | 2890 | 4.75 UT | 41300 | 1260 | 230 | 2340 |
| PCB159 | 39635-35-3 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB166 | 41411-63-6 | pg/g | 93 | 48 | 51.6 | 5.09 | 1760 | 83.7 | 12.3 | 118 | 4.75 UT | 1760 | 45.6 | 5.88 | 58.7 |
| PCB167 | 52663-72-6 | pg/g | 93 | 76 | 81.7 | 0.792 J | 14500 T | 533 | 108 | 916 | 0.464 U | 14500 T | 436 | 86 | 726 |
| PCB168 | 59291-65-5 | pg/g | 93 | 50 | 53.8 | 5.02 | 678 T | 47.9 | 18.8 | 162 | 4.75 UT | 678 T | 28.3 | 8.06 | 65.3 |
| PCB169 | 32774-16-6 | pg/g | 93 | 5 | 5.38 | 0.796 J | 37.8 T | 9.51 | 3.04 | 31 | 0.365 U | 51.6 U | 3.5 | 1.82 | 8.54 |
| PCB170 | 35065-30-6 | pg/g | 93 | 77 | 82.8 | 5.36 | 80200 T | 3190 | 1130 | 7050 | 4.75 UT | 80200 T | 2640 | 762 | 5800 |
| PCB171 | 52663-71-5 | pg/g | 93 | 73 | 78.5 | 6.23 | 23600 T | 970 | 343 | 2110 | 4.75 UT | 23600 T | 763 | 221 | 1620 |
| PCB172 | 52663-74-8 | pg/g | 93 | 72 | 77.4 | 6.6 | 13500 T | 589 | 228 | 1380 | 4.75 UT | 13500 T | 457 | 136 | 1000 |
| PCB173 | 68194-16-1 | pg/g | 93 | 64 | 68.8 | 6.03 | 2050 T | 101 | 33.6 | 225 | 4.75 UT | 2050 T | 70.7 | 20.5 | 159 |
| PCB174 | 38411-25-5 | pg/g | 93 | 78 | 83.9 | 5.55 | 92800 T | 3770 | 1390 | 8750 | 4.75 UT | 92800 T | 3170 | 971 | 7180 |
| PCB175 | 40186-70-7 | pg/g | 93 | 68 | 73.1 | 5.21 | 5260 T | 217 | 77.3 | 475 | 4.75 UT | 5260 T | 160 | 46.9 | 349 |
| PCB176 | 52663-65-7 | pg/g | 93 | 72 | 77.4 | 7.75 | 14700 T | 612 | 235 | 1400 | 4.75 UT | 14700 T | 475 | 134 | 982 |
| PCB177 | 52663-70-4 | pg/g | 93 | 75 | 80.6 | 5.15 | 54500 T | 2390 | 1020 | 5820 | 4.75 UT | 54500 T | 1930 | 539 | 5040 |
| PCB178 | 52663-67-9 | pg/g | 93 | 74 | 79.6 | 8.74 | 20300 T | 950 | 413 | 2730 | 4.75 UT | 20300 T | 757 | 219 | 2490 |
| PCB179 | 52663-64-6 | pg/g | 93 | 74 | 79.6 | 11.5 | 45200 T | 2000 | 873 | 5240 | 4.75 UT | 45200 T | 1590 | 474 | 3690 |
| PCB180 | 35065-29-3 | pg/g | 93 | 81 | 87.1 | 5.01 T | 187000 T | 7410 | 2770 | 16800 | 4.78 U | 187000 T | 6450 | 2020 | 14500 |
| PCB181 | 74472-47-2 | pg/g | 93 | 49 | 52.7 | 5.37 T | 638 | 56 | 16.1 | 171 | 4.32 U | 638 | 31.8 | 6.94 | 94 |

Table 4-4. Summary Statistics for Round 3B Subsurface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| PCB182 & 187 | PCB182_187 | pg/g | 93 | 77 | 82.8 | 6.93 | 122000 T | 5310 | 2150 | 14500 | 4.75 UT | 122000 T | 4390 | 1420 | 11600 |
| PCB183 | 52663-69-1 | pg/g | 93 | 76 | 81.7 | 5.28 | 55900 T | 2210 | 795 | 5050 | 4.75 UT | 55900 T | 1810 | 534 | 3780 |
| PCB184 | 74472-48-3 | pg/g | 93 | 10 | 10.8 | 5.14 | 103 T | 25.6 | 13.8 | 84.1 | 4.32 U | 103 T | 8.74 | 4.97 | 25.2 |
| PCB185 | 52712-05-7 | pg/g | 93 | 69 | 74.2 | 6.47 | 8660 T | 420 | 168 | 1030 | 4.75 UT | 8660 T | 313 | 104 | 723 |
| PCB186 | 74472-49-4 | pg/g | 93 | 4 | 4.3 | 7.64 | 25.6 J | 15.5 | 14.3 | 24.9 | 4.32 U | 51.6 U | 6.97 | 4.96 | 24.9 |
| PCB188 | 74487-85-7 | pg/g | 93 | 34 | 36.6 | 5.2 | 158 T | 25 | 10.1 | 108 | 4.32 U | 158 T | 12.9 | 5 | 46.6 |
| PCB189 | 39635-31-9 | pg/g | 93 | 74 | 79.6 | 0.639 J | 3220 T | 130 | 41.6 | 266 | 0.202 U | 3220 T | 103 | 30.3 | 213 |
| PCB190 | 41411-64-7 | pg/g | 93 | 73 | 78.5 | 6.12 | 16100 T | 690 | 255 | 1590 | 4.75 UT | 16100 T | 542 | 162 | 1130 |
| PCB191 | 74472-50-7 | pg/g | 93 | 65 | 69.9 | 5.18 | 3850 T | 167 | 56.4 | 382 | 4.75 UT | 3850 T | 118 | 33.5 | 233 |
| PCB192 | 74472-51-8 | pg/g | 93 | 0 | 0 | | | | | | 4.32 U | 51.6 U | 7.21 | 4.96 | 24.9 |
| PCB193 | 69782-91-8 | pg/g | 93 | 73 | 78.5 | 5.04 | 9770 T | 437 | 186 | 1070 | 4.75 UT | 9770 T | 344 | 96.5 | 869 |
| PCB194 | 35694-08-7 | pg/g | 93 | 75 | 80.6 | 5.01 | 32900 T | 1740 | 753 | 5190 | 4.75 UT | 32900 T | 1410 | 534 | 4550 |
| PCB195 | 52663-78-2 | pg/g | 93 | 73 | 78.5 | 6.63 | 13400 T | 764 | 312 | 2340 | 4.75 UT | 13400 T | 601 | 224 | 1980 |
| PCB196 & 203 | PCB196_203 | pg/g | 93 | 77 | 82.8 | 5.07 | 53000 T | 2450 | 910 | 7850 | 4.75 UT | 53000 T | 2030 | 654 | 6280 |
| PCB197 | 33091-17-7 | pg/g | 93 | 64 | 68.8 | 5.45 | 1860 T | 97.9 | 35.5 | 242 | 4.75 UT | 1860 T | 68.9 | 21 | 197 |
| PCB198 | 68194-17-2 | pg/g | 93 | 66 | 71 | 7.49 | 2550 T | 147 | 54.7 | 421 | 4.75 UT | 2550 T | 106 | 34.6 | 347 |
| PCB199 | 52663-75-9 | pg/g | 93 | 77 | 82.8 | 5.12 | 49800 T | 2310 | 892 | 7190 | 4.75 UT | 49800 T | 1910 | 639 | 5600 |
| PCB200 | 52663-73-7 | pg/g | 93 | 69 | 74.2 | 6.89 | 6240 T | 320 | 125 | 841 | 4.75 UT | 6240 T | 239 | 81.3 | 662 |
| PCB201 | 40186-71-8 | pg/g | 93 | 70 | 75.3 | 5.35 | 6420 T | 317 | 123 | 830 | 4.75 UT | 6420 T | 240 | 78.7 | 790 |
| PCB202 | 2136-99-4 | pg/g | 93 | 73 | 78.5 | 6.26 | 8840 T | 445 | 189 | 1350 | 4.75 UT | 8840 T | 350 | 121 | 1010 |
| PCB204 | 74472-52-9 | pg/g | 93 | 3 | 3.23 | 8.74 | 15.7 JT | 11.3 | 9.59 | 15.1 | 4.32 U | 51.6 U | 7.2 | 4.96 | 24.9 |
| PCB205 | 74472-53-0 | pg/g | 93 | 64 | 68.8 | 5.48 | 1580 T | 93.4 | 37 | 260 | 4.75 UT | 1580 T | 65.8 | 25.2 | 190 |
| PCB206 | 40186-72-9 | pg/g | 93 | 75 | 80.6 | 5.25 | 12000 T | 934 | 371 | 3530 | 4.75 UT | 12000 T | 754 | 263 | 2580 |
| PCB207 | 52663-79-3 | pg/g | 93 | 69 | 74.2 | 5 | 1660 T | 117 | 50.6 | 261 | 4.75 UT | 1660 T | 88.2 | 32.5 | 234 |
| PCB208 | 52663-77-1 | pg/g | 93 | 71 | 76.3 | 9.01 | 2980 T | 288 | 121 | 1470 | 4.75 UT | 2980 T | 221 | 72.9 | 951 |
| PCB209 | 2051-24-3 | pg/g | 93 | 74 | 79.6 | 11.1 | 5110 | 649 | 265 | 2410 | 4.75 UT | 5110 | 517 | 197 | 2020 |
| Total PCB Congeners | 1336-36-3 | pg/g | 93 | 89 | 95.7 | 1.38 JT | 7050000 JT | 264000 | 70700 | 522000 | 1.38 JT | 7050000 JT | 253000 | 62700 | 514000 |
| **PCB Homologs** | | | | | | | | | | | | | | | |
| Dichlorobiphenyl homologs | 25512-42-9 | pg/g | 93 | 68 | 73.1 | 13.8 T | 32600 T | 2960 | 1020 | 13500 | 9.51 UT | 32600 T | 2170 | 544 | 7500 |
| Heptachlorobiphenyl homologs | 28655-71-2 | pg/g | 93 | 81 | 87.1 | 5.01 T | 760000 JT | 30000 | 10800 | 70300 | 4.78 UT | 760000 JT | 26100 | 7740 | 57800 |
| Hexachlorobiphenyl homologs | 26601-64-9 | pg/g | 93 | 85 | 91.4 | 1.14 JT | 1850000 JT | 65500 | 15400 | 137000 | 1.14 JT | 1850000 JT | 59800 | 13900 | 132000 |
| Monochlorobiphenyl homologs | 27323-18-8 | pg/g | 93 | 70 | 75.3 | 5.28 T | 8570 T | 302 | 108 | 677 | 4.75 UT | 8570 T | 229 | 68.1 | 637 |
| Nonachlorobiphenyl homologs | 53742-07-7 | pg/g | 93 | 75 | 80.6 | 5.25 T | 16600 T | 1310 | 534 | 5170 | 4.75 UT | 16600 T | 1060 | 371 | 3750 |
| Octachlorobiphenyl homologs | 55722-26-4 | pg/g | 93 | 77 | 82.8 | 10.2 T | 177000 JT | 8460 | 3350 | 27100 | 4.75 UT | 177000 JT | 7010 | 2480 | 22000 |
| Pentachlorobiphenyl homologs | 25429-29-2 | pg/g | 93 | 86 | 92.5 | 2.32 JT | 3150000 T | 95900 | 16600 | 157000 | 2.32 JT | 3150000 T | 88700 | 12400 | 140000 |
| Tetrachlorobiphenyl homologs | 26914-33-0 | pg/g | 93 | 85 | 91.4 | 1.21 JT | 1460000 T | 55600 | 13400 | 111000 | 1.21 JT | 1460000 T | 50900 | 8990 | 97600 |
| Trichlorobiphenyl homologs | 25323-68-6 | pg/g | 93 | 78 | 83.9 | 5.06 T | 304000 T | 19700 | 5090 | 68200 | 4.75 UT | 304000 T | 16500 | 2570 | 52900 |
| **Organochlorine Pesticides** | | | | | | | | | | | | | | | |
| 2,4'-DDD | 53-19-0 | ug/kg | 216 | 113 | 52.3 | 0.19 NJ | 380 | 11 | 3 | 27 | 0.16 U | 380 | 7.72 | 1.3 | 17.5 |
| 2,4'-DDE | 3424-82-6 | ug/kg | 216 | 29 | 13.4 | 0.058 J | 73 | 5.28 | 0.3 | 15.2 | 0.046 U | 73 | 1.86 | 0.3 | 6.38 |
| 2,4'-DDT | 789-02-6 | ug/kg | 216 | 123 | 56.9 | 0.084 J | 560 | 17.9 | 2.6 | 34.5 | 0.061 U | 560 | 10.8 | 1.15 | 17 |
| 4,4'-DDD | 72-54-8 | ug/kg | 216 | 158 | 73.1 | 0.11 J | 1300 J | 21.1 | 3.05 | 45.9 | 0.073 U | 1300 J | 15.9 | 1.8 | 39.5 |
| 4,4'-DDE | 72-55-9 | ug/kg | 216 | 142 | 65.7 | 0.066 J | 500 J | 16.1 | 4.45 | 26.9 | 0.027 U | 500 J | 11.2 | 2.75 | 20.3 |
| 4,4'-DDT | 50-29-3 | ug/kg | 216 | 108 | 50 | 0.39 J | 3200 | 61.2 | 4.75 | 131 | 0.18 U | 3200 | 32 | 2.1 | 53.3 |
| Aldrin | 309-00-2 | ug/kg | 216 | 20 | 9.26 | 0.17 NJ | 1.7 NJ | 0.614 | 0.52 | 1.51 | 0.12 U | 18 U | 0.605 | 0.12 | 1.33 |
| alpha-Endosulfan | 959-98-8 | ug/kg | 216 | 48 | 22.2 | 0.087 J | 90 NJ | 2.27 | 0.255 | 0.7 | 0.037 U | 110 U | 1.46 | 0.18 | 1.8 |
| alpha-Hexachlorocyclohexane | 319-84-6 | ug/kg | 216 | 13 | 6.02 | 0.1 NJ | 38 J | 3.77 | 0.22 | 20.1 | 0.097 U | 38 J | 0.531 | 0.097 | 0.97 |
| beta-Endosulfan | 33213-65-9 | ug/kg | 216 | 42 | 19.4 | 0.047 J | 3.2 | 0.712 | 0.58 | 1.78 | 0.031 U | 32 U | 0.771 | 0.19 | 1.8 |
| beta-Hexachlorocyclohexane | 319-85-7 | ug/kg | 216 | 20 | 9.26 | 0.27 | 3.1 NJ | 0.836 | 0.6 | 1.68 | 0.14 U | 46 U | 0.843 | 0.22 | 1.65 |
| cis-Chlordane | 5103-71-9 | ug/kg | 216 | 37 | 17.1 | 0.058 NJ | 9.2 J | 0.811 | 0.37 | 2.66 | 0.031 U | 18 U | 0.57 | 0.11 | 1.4 |
| cis-Nonachlor | 5103-73-1 | ug/kg | 216 | 4 | 1.85 | 0.12 J | 4.4 NJ | 2.88 | 3.5 | 4.28 | 0.087 U | 170 U | 3.68 | 0.845 | 7.58 |
| delta-Hexachlorocyclohexane | 319-86-8 | ug/kg | 216 | 12 | 5.56 | 0.12 NJ | 13 J | 1.58 | 0.39 | 6.78 | 0.11 U | 13 J | 0.476 | 0.11 | 1.1 |

Table 4-4. Summary Statistics for Round 3B Subsurface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations[1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| Dieldrin | 60-57-1 | ug/kg | 216 | 46 | 21.3 | 0.038 NJ | 6.9 NJ | 0.484 | 0.295 | 0.948 | 0.03 U | 39 U | 0.693 | 0.195 | 1.63 |
| Endosulfan sulfate | 1031-07-8 | ug/kg | 216 | 6 | 2.78 | 0.077 J | 0.44 NJ | 0.223 | 0.165 | 0.42 | 0.058 U | 90 U | 0.916 | 0.17 | 0.918 |
| Endrin | 72-20-8 | ug/kg | 216 | 15 | 6.94 | 0.18 | 64 NJ | 5.58 | 1 | 22.9 | 0.071 U | 64 NJ | 0.952 | 0.17 | 1.95 |
| Endrin aldehyde | 7421-93-4 | ug/kg | 216 | 16 | 7.41 | 0.06 J | 91 J | 6.42 | 0.31 | 25.3 | 0.042 U | 91 J | 1.53 | 0.19 | 2.7 |
| Endrin ketone | 53494-70-5 | ug/kg | 216 | 18 | 8.33 | 0.053 J | 260 NJ | 15.9 | 0.735 | 45.7 | 0.029 U | 260 NJ | 2.42 | 0.32 | 3.68 |
| gamma-Hexachlorocyclohexane | 58-89-9 | ug/kg | 216 | 28 | 13 | 0.075 J | 7.9 J | 1.2 | 0.445 | 7.03 | 0.062 U | 77 U | 1.24 | 0.21 | 4.5 |
| Heptachlor | 76-44-8 | ug/kg | 216 | 23 | 10.6 | 0.11 J | 1.1 NJ | 0.519 | 0.46 | 1.1 | 0.076 U | 66 U | 0.693 | 0.17 | 1.13 |
| Heptachlor epoxide | 1024-57-3 | ug/kg | 216 | 46 | 21.3 | 0.091 J | 5.9 NJ | 1.27 | 0.735 | 4.25 | 0.068 U | 68 U | 1.32 | 0.265 | 3.43 |
| Methoxychlor | 72-43-5 | ug/kg | 216 | 17 | 7.87 | 0.14 | 4 J | 1.18 | 0.91 | 2.64 | 0.075 U | 96 U | 1.54 | 0.38 | 2.33 |
| Mirex | 2385-85-5 | ug/kg | 216 | 7 | 3.24 | 0.12 J | 170 NJ | 30.8 | 0.19 | 133 | 0.12 U | 170 NJ | 1.37 | 0.12 | 1.2 |
| Oxychlordane | 27304-13-8 | ug/kg | 216 | 37 | 17.1 | 0.092 NJ | 130 J | 6.78 | 0.3 | 34.8 | 0.061 U | 130 J | 1.43 | 0.175 | 1.3 |
| Total Chlordanes | TOTCHLDANE | ug/kg | 216 | 119 | 55.1 | 0.038 JT | 310 JT | 9.09 | 1 | 26 | 0.038 JT | 310 JT | 5.71 | 0.75 | 6.85 |
| Total Endosulfan | TOTENDOSLFN | ug/kg | 216 | 81 | 37.5 | 0.047 JT | 90 JT | 1.73 | 0.41 | 1.8 | 0.047 JT | 110 UT | 1.89 | 0.28 | 2.55 |
| Total of 2,4' and 4,4'-DDD | E17075011 | ug/kg | 216 | 162 | 75 | 0.11 JT | 1700 JT | 28.3 | 4.4 | 67.8 | 0.11 JT | 1700 JT | 21.3 | 2.7 | 58.3 |
| Total of 2,4' and 4,4'-DDD, -DDE, -DDT | E966176 | ug/kg | 216 | 176 | 81.5 | 0.058 JT | 3400 T | 90 | 13.5 | 188 | 0.058 JT | 3400 T | 73.4 | 9.95 | 145 |
| Total of 2,4' and 4,4'-DDE | E17075029 | ug/kg | 216 | 157 | 72.7 | 0.058 JT | 500 JT | 15.6 | 4.1 | 29.6 | 0.046 UT | 500 JT | 11.7 | 2.65 | 21.8 |
| Total of 2,4' and 4,4'-DDT | E17075037 | ug/kg | 216 | 148 | 68.5 | 0.084 JT | 3300 T | 59.4 | 5.65 | 130 | 0.084 JT | 3300 T | 41.1 | 2.95 | 83.8 |
| Toxaphene | 8001-35-2 | ug/kg | 216 | 0 | 0 | | | | | | 3.4 U | 6500 U | 142 | 30.5 | 263 |
| trans-Chlordane | 5103-74-2 | ug/kg | 216 | 71 | 32.9 | 0.038 J | 310 NJ | 10.7 | 1.2 | 13 | 0.027 U | 310 NJ | 4.03 | 0.525 | 5 |
| trans-Nonachlor | 39765-80-5 | ug/kg | 216 | 55 | 25.5 | 0.042 JT | 6.3 | 0.563 | 0.23 | 2.28 | 0.034 U | 61 U | 0.743 | 0.17 | 1.55 |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | |
| Diesel Range Hydrocarbons | DRH | mg/kg | 216 | 196 | 90.7 | 1.5 J | 110000 J | 966 | 163 | 1260 | 1.3 UT | 110000 J | 876 | 149 | 1140 |
| Diesel Range Hydrocarbons, SGT | DRHSGT | mg/kg | 216 | 174 | 80.6 | 1.6 J | 88000 J | 865 | 160 | 1200 | 1.3 UT | 88000 J | 697 | 117 | 930 |
| Residual Range Hydrocarbons | RRH | mg/kg | 216 | 191 | 88.4 | 3.1 J | 37000 J | 915 | 510 | 1950 | 3.1 J | 37000 J | 811 | 458 | 1680 |
| Residual Range Hydrocarbons, SGT | RRHSGT | mg/kg | 216 | 171 | 79.2 | 3.6 J | 15000 J | 632 | 380 | 1450 | 3 U | 15000 J | 502 | 270 | 1330 |
| Total Petroleum Hydrocarbons | TPH | mg/kg | 216 | 200 | 92.6 | 1.8 JA | 147000 JA | 1820 | 680 | 2910 | 1.8 JA | 147000 JA | 1690 | 610 | 2900 |
| Total Petroleum Hydrocarbons, SGT | TPHSGT | mg/kg | 216 | 181 | 83.8 | 2.6 JA | 103000 JA | 1430 | 530 | 2600 | 2.6 JA | 103000 JA | 1200 | 395 | 2150 |
| **Phenols** | | | | | | | | | | | | | | | |
| 2,3,4,5-Tetrachlorophenol | 4901-51-3 | ug/kg | 216 | 9 | 4.17 | 0.47 J | 110 | 13.9 | 2.6 | 67.4 | 0.23 U | 110 | 1.12 | 0.35 | 2.6 |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | ug/kg | 216 | 27 | 12.5 | 0.32 J | 240 | 10.6 | 1.4 | 6.91 | 0.18 U | 240 | 1.68 | 0.29 | 1.8 |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/kg | 216 | 16 | 7.41 | 1.5 NJ | 13 NJ | 6.23 | 5.6 | 12.3 | 0.68 U | 31 U | 4.28 | 3.8 | 8.93 |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/kg | 216 | 49 | 22.7 | 0.17 J | 3.6 J | 0.79 | 0.58 | 1.66 | 0.12 U | 3.8 U | 0.392 | 0.21 | 1.3 |
| 2,4-Dichlorophenol | 120-83-2 | ug/kg | 216 | 0 | 0 | | | | | | 1 U | 850 U | 13.9 | 1 | 50 |
| 2,4-Dimethylphenol | 105-67-9 | ug/kg | 86 | 1 | 1.16 | 28 JT | 28 JT | 28 | 28 | | 5.5 U | 4700 U | 154 | 11 | 550 |
| 2,4-Dinitrophenol | 51-28-5 | ug/kg | 216 | 0 | 0 | | | | | | 17 U | 15000 U | 238 | 17 | 850 |
| 2-Chlorophenol | 95-57-8 | ug/kg | 216 | 0 | 0 | | | | | | 2 U | 1700 U | 27.7 | 2 | 100 |
| 2-Methylphenol | 95-48-7 | ug/kg | 216 | 2 | 0.926 | 1.8 J | 6.6 J | 4.2 | 4.2 | 6.36 | 1.5 U | 1300 U | 20.9 | 1.6 | 75 |
| 2-Nitrophenol | 88-75-5 | ug/kg | 216 | 0 | 0 | | | | | | 1.5 U | 1300 U | 20.9 | 1.5 | 75 |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/kg | 216 | 0 | 0 | | | | | | 1.4 U | 1200 U | 19.5 | 1.4 | 70 |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/kg | 216 | 0 | 0 | | | | | | 1.4 U | 1200 U | 19.5 | 1.4 | 70 |
| 4-Methylphenol | 106-44-5 | ug/kg | 216 | 110 | 50.9 | 1.6 J | 390 | 50 | 25 | 190 | 1.5 U | 1300 U | 41.9 | 10 | 175 |
| 4-Nitrophenol | 100-02-7 | ug/kg | 216 | 0 | 0 | | | | | | 18 U | 16000 U | 253 | 18 | 900 |
| Pentachlorophenol | 87-86-5 | ug/kg | 216 | 102 | 47.2 | 0.32 J | 1300 | 21.9 | 3.3 | 30 | 0.17 U | 1300 | 11.4 | 1.9 | 15 |
| Phenol | 108-95-2 | ug/kg | 216 | 28 | 13 | 2.1 J | 89 J | 11.4 | 7.85 | 20.7 | 2 U | 1700 U | 31.1 | 10 | 100 |
| **Phthalates** | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | ug/kg | 216 | 113 | 52.3 | 7.6 J | 3500 | 187 | 98 | 664 | 7 U | 6000 U | 181 | 70 | 700 |
| Butylbenzyl phthalate | 85-68-7 | ug/kg | 216 | 22 | 10.2 | 3.2 J | 41 J | 14.3 | 12.5 | 28.7 | 3.2 U | 2800 U | 46 | 6.4 | 160 |
| Dibutyl phthalate | 84-74-2 | ug/kg | 216 | 67 | 31 | 8.1 | 110 | 15.2 | 12 | 23.7 | 7.9 U | 6800 U | 112 | 16 | 400 |
| Diethyl phthalate | 84-66-2 | ug/kg | 216 | 51 | 23.6 | 1.3 J | 7.8 JT | 2.63 | 2.2 | 4.95 | 1.3 U | 1200 U | 18.9 | 3.05 | 65 |
| Dimethyl phthalate | 131-11-3 | ug/kg | 216 | 4 | 1.85 | 1 J | 18 | 6.58 | 3.65 | 16.2 | 1 U | 850 U | 14 | 1.1 | 50 |
| Di-n-octyl phthalate | 117-84-0 | ug/kg | 216 | 2 | 0.926 | 8.1 | 11 T | 9.55 | 9.55 | 10.9 | 1.7 U | 1500 U | 23.9 | 1.8 | 85 |

Table 4-4. Summary Statistics for Round 3B Subsurface Sediment Samples

| | | | | N | % | Detected Concentrations | | | | | Detected and Nondetected Concentrations [1] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **CAS RN** | **Units** | **N** | **Detected** | **Detected** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** | **Minimum** | **Maximum** | **Mean** | **Median** | **95th** |
| **SVOCs** | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/kg | 216 | 1 | 0.463 | 4.9 J | 4.9 J | 4.9 | 4.9 | | 2.6 U | 2300 U | 36.7 | 2.65 | 130 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/kg | 216 | 1 | 0.463 | 6.9 J | 6.9 J | 6.9 | 6.9 | | 2.9 U | 2500 U | 40.7 | 2.95 | 150 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/kg | 216 | 0 | 0 | | | | | | 2.9 UT | 2600 U | 42.1 | 3 | 150 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/kg | 216 | 8 | 3.7 | 3.2 J | 220 J | 33.2 | 7.65 | 146 | 2.9 U | 2500 U | 41.8 | 5.8 | 150 |
| 2,4-Dinitrotoluene | 121-14-2 | ug/kg | 216 | 1 | 0.463 | 17 | 17 | 17 | 17 | | 1.5 U | 1300 U | 21 | 1.55 | 75 |
| 2,6-Dinitrotoluene | 606-20-2 | ug/kg | 216 | 0 | 0 | | | | | | 2 U | 1700 U | 27.7 | 2 | 100 |
| 2-Chloronaphthalene | 91-58-7 | ug/kg | 216 | 1 | 0.463 | 120 J | 120 J | 120 | 120 | | 1.6 U | 1400 U | 22.5 | 1.6 | 80 |
| 2-Nitroaniline | 88-74-4 | ug/kg | 216 | 0 | 0 | | | | | | 3.2 U | 2800 U | 45 | 3.2 | 160 |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/kg | 206 | 1 | 0.485 | 6.6 J | 6.6 J | 6.6 | 6.6 | | 3.7 U | 3200 U | 54 | 3.85 | 190 |
| 3-Nitroaniline | 99-09-2 | ug/kg | 213 | 0 | 0 | | | | | | 2.5 U | 2200 U | 35.7 | 2.5 | 130 |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/kg | 216 | 0 | 0 | | | | | | 1.6 U | 1400 U | 22.3 | 1.6 | 80 |
| 4-Chloroaniline | 106-47-8 | ug/kg | 213 | 5 | 2.35 | 2.5 J | 13 J | 6.48 | 6.7 | 11.8 | 1.9 U | 1700 U | 27.2 | 2 | 95 |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/kg | 216 | 0 | 0 | | | | | | 1.4 U | 1200 U | 19.5 | 1.4 | 70 |
| 4-Nitroaniline | 100-01-6 | ug/kg | 215 | 1 | 0.465 | 12 J | 12 J | 12 | 12 | | 1.8 U | 1600 U | 25.4 | 1.8 | 90 |
| Aniline | 62-53-3 | ug/kg | 160 | 1 | 0.625 | 5.1 J | 5.1 J | 5.1 | 5.1 | | 1.5 U | 150 U | 12.3 | 1.55 | 75 |
| Azobenzene | 103-33-3 | ug/kg | 216 | 1 | 0.463 | 1.1 JT | 1.1 JT | 1.1 | 1.1 | | 1.1 U | 940 U | 15.3 | 1.1 | 55 |
| Benzoic acid | 65-85-0 | ug/kg | 165 | 21 | 12.7 | 100 J | 500 J | 180 | 130 | 500 | 96 U | 82000 U | 1480 | 150 | 4640 |
| Benzyl alcohol | 100-51-6 | ug/kg | 216 | 81 | 37.5 | 2.2 J | 160 | 8.72 | 5.1 | 17 | 2.1 U | 1800 U | 32 | 6.6 | 110 |
| Bis(2-chloroethoxy) methane | 111-91-1 | ug/kg | 216 | 0 | 0 | | | | | | 1.5 U | 1300 U | 20.9 | 1.5 | 75 |
| Bis(2-chloroethyl) ether | 111-44-4 | ug/kg | 216 | 0 | 0 | | | | | | 1.9 U | 1700 U | 26.7 | 1.9 | 95 |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | ug/kg | 216 | 2 | 0.926 | 2.6 JT | 13 JT | 7.8 | 7.8 | 12.5 | 2.6 UJ | 2300 U | 36.7 | 2.6 | 130 |
| Carbazole | 86-74-8 | ug/kg | 216 | 91 | 42.1 | 1.4 J | 210000 | 2990 | 12 | 1070 | 1.3 U | 210000 | 1260 | 5.75 | 130 |
| Dibenzofuran | 132-64-9 | ug/kg | 216 | 158 | 73.1 | 0.68 J | 140000 | 1120 | 9.3 | 508 | 0.59 U | 140000 | 819 | 4.6 | 393 |
| Hexachlorobenzene | 118-74-1 | ug/kg | 216 | 43 | 19.9 | 0.068 JT | 2.8 J | 0.583 | 0.34 | 1.5 | 0.068 U | 24 U | 0.881 | 0.175 | 6 |
| Hexachlorobutadiene | 87-68-3 | ug/kg | 216 | 15 | 6.94 | 0.25 J | 3.2 | 0.838 | 0.41 | 2.22 | 0.14 U | 130 U | 1.35 | 0.14 | 2.58 |
| Hexachlorocyclopentadiene | 77-47-4 | ug/kg | 213 | 0 | 0 | | | | | | 29 U | 25000 U | 410 | 29 | 1500 |
| Hexachloroethane | 67-72-1 | ug/kg | 216 | 14 | 6.48 | 0.24 J | 8.8 | 1.97 | 0.62 | 7.31 | 0.16 U | 16 U | 0.801 | 0.16 | 3.13 |
| Isophorone | 78-59-1 | ug/kg | 216 | 1 | 0.463 | 20 | 20 | 20 | 20 | | 1 U | 850 U | 14 | 1.05 | 50 |
| Nitrobenzene | 98-95-3 | ug/kg | 216 | 0 | 0 | | | | | | 2.2 U | 1900 U | 30.8 | 2.2 | 110 |
| N-Nitrosodimethylamine | 62-75-9 | ug/kg | 216 | 0 | 0 | | | | | | 6.1 U | 5200 U | 85.6 | 6.1 | 310 |
| N-Nitrosodiphenylamine | 86-30-6 | ug/kg | 216 | 3 | 1.39 | 1.7 J | 52 J | 19.9 | 6.1 | 47.4 | 1.6 U | 1400 U | 22.5 | 1.65 | 80 |
| N-Nitrosodipropylamine | 621-64-7 | ug/kg | 216 | 0 | 0 | | | | | | 2.4 U | 2100 U | 33.7 | 2.4 | 120 |

**Notes:**

[1] Summary statistics were calculated using the detection limit at full value for nondetected concentrations

PAH - polycyclic aromatic hydrocarbon
PCB - polychlorinated biphenyl
SVOC - semivolatile organic compound