**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/06/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA4-14-S
**Lab Code:** K0806166-014

**Units:** ug/Kg
**Basis:** Dry

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 83 | 25-125 | 08/01/08 | Acceptable |
| Decachlorobiphenyl | 88 | 22-142 | 08/01/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA3-22b-S
**Lab Code:** K0806166-015

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| **alpha-BHC** | **1.4** | P | 1.0 | 0.26 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Hexachlorobenzene | ND | U | 1.0 | 0.079 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| beta-BHC | ND | U | 1.0 | 0.30 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| gamma-BHC (Lindane) | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| delta-BHC | ND | Ui | 1.0 | 0.77 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Heptachlor | ND | U | 1.0 | 0.080 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Aldrin | ND | U | 1.0 | 0.15 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Heptachlor Epoxide | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| gamma-Chlordane† | ND | Ui | 1.0 | 0.25 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endosulfan I | ND | U | 1.0 | 0.17 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| alpha-Chlordane | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Dieldrin | ND | U | 1.0 | 0.29 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 4,4'-DDE | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endrin | ND | U | 1.0 | 0.20 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endosulfan II | ND | U | 1.0 | 0.19 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 4,4'-DDD | ND | U | 1.0 | 0.12 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endrin Aldehyde | ND | Ui | 9.7 | 9.7 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endosulfan Sulfate | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 4,4'-DDT | ND | U | 1.0 | 0.064 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endrin Ketone | ND | U | 1.0 | 0.082 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Methoxychlor | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Toxaphene | ND | Ui | 50 | 39 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Chlordane | ND | Ui | 10 | 9.2 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 2,4'-DDE | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 2,4'-DDD | ND | U | 1.0 | 0.21 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 2,4'-DDT | ND | U | 1.0 | 0.14 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Mirex | ND | U | 1.0 | 0.063 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA3-22b-S
**Lab Code:** K0806166-015

**Units:** ug/Kg
**Basis:** Dry

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 79 | 25-125 | 08/01/08 | Acceptable |
| Decachlorobiphenyl | 84 | 22-142 | 08/01/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

Analytical Results

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA4-30-S
**Lab Code:** K0806166-016

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| **alpha-BHC** | **0.66** | JP | 1.0 | 0.26 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Hexachlorobenzene | ND | U | 1.0 | 0.079 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| beta-BHC | ND | U | 1.0 | 0.30 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| gamma-BHC (Lindane) | ND | Ui | 1.0 | 0.71 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| delta-BHC | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Heptachlor | ND | U | 1.0 | 0.080 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Aldrin | ND | U | 1.0 | 0.15 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Heptachlor Epoxide | ND | U | 1.0 | 0.13 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| gamma-Chlordane† | ND | Ui | 1.0 | 0.34 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endosulfan I | ND | U | 1.0 | 0.17 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| alpha-Chlordane | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Dieldrin | ND | U | 1.0 | 0.29 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 4,4'-DDE | ND | Ui | 1.0 | 0.70 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endrin | ND | U | 1.0 | 0.20 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endosulfan II | ND | U | 1.0 | 0.19 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 4,4'-DDD | ND | U | 1.0 | 0.12 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endrin Aldehyde | ND | U | 1.0 | 0.053 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endosulfan Sulfate | ND | U | 1.0 | 0.079 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 4,4'-DDT | ND | Ui | 1.0 | 0.085 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Endrin Ketone | ND | U | 1.0 | 0.082 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Methoxychlor | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Toxaphene | ND | U | 50 | 9.2 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Chlordane | ND | U | 10 | 8.1 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 2,4'-DDE | ND | Ui | 1.0 | 0.30 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 2,4'-DDD | ND | U | 1.0 | 0.21 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| 2,4'-DDT | ND | Ui | 1.0 | 0.26 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |
| Mirex | ND | U | 1.0 | 0.063 | 1 | 07/17/08 | 08/01/08 | KWG0806851 | |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA4-30-S
**Lab Code:** K0806166-016

**Units:** ug/Kg
**Basis:** Dry

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 73 | 25-125 | 08/01/08 | Acceptable |
| Decachlorobiphenyl | 66 | 22-142 | 08/01/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA4-29-S
**Lab Code:** K0806166-017

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | ND | Ui | 1.0 | 0.51 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **Hexachlorobenzene** | **0.87** | J | 1.0 | 0.079 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| beta-BHC | ND | U | 1.0 | 0.30 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-BHC (Lindane) | ND | Ui | 1.0 | 0.63 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| delta-BHC | ND | U | 1.0 | 0.055 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor | ND | U | 1.0 | 0.080 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Aldrin | ND | Ui | 1.0 | 0.18 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor Epoxide | ND | U | 1.0 | 0.13 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-Chlordane† | ND | Ui | 1.0 | 0.14 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan I | ND | U | 1.0 | 0.17 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| alpha-Chlordane | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Dieldrin | ND | U | 1.0 | 0.29 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDE | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin | ND | U | 1.0 | 0.20 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan II | ND | U | 1.0 | 0.19 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **4,4'-DDD** | **0.81** | JP | 1.0 | 0.12 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **Endrin Aldehyde** | **1.7** | | 1.0 | 0.053 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan Sulfate | ND | U | 1.0 | 0.079 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **4,4'-DDT** | **0.70** | JP | 1.0 | 0.064 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin Ketone | ND | U | 1.0 | 0.082 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Methoxychlor | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Toxaphene | ND | Ui | 50 | 13 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Chlordane | ND | U | 10 | 8.1 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDE | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDD | ND | U | 1.0 | 0.21 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **2,4'-DDT** | **0.25** | J | 1.0 | 0.14 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Mirex | ND | U | 1.0 | 0.063 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA4-29-S
**Lab Code:** K0806166-017

**Units:** ug/Kg
**Basis:** Dry

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 70 | 25-125 | 07/30/08 | Acceptable |
| Decachlorobiphenyl | 70 | 22-142 | 07/30/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA4-28-S
**Lab Code:** K0806166-018

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | ND | U | 1.0 | 0.26 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **Hexachlorobenzene** | **0.27** | JP | 1.0 | 0.079 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| beta-BHC | ND | U | 1.0 | 0.30 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-BHC (Lindane) | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| delta-BHC | ND | U | 1.0 | 0.055 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor | ND | U | 1.0 | 0.080 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Aldrin | ND | Ui | 1.0 | 0.22 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor Epoxide | ND | U | 1.0 | 0.13 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-Chlordane† | ND | U | 1.0 | 0.064 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan I | ND | U | 1.0 | 0.17 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| alpha-Chlordane | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Dieldrin | ND | U | 1.0 | 0.29 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDE | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin | ND | U | 1.0 | 0.20 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan II | ND | U | 1.0 | 0.19 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDD | ND | U | 1.0 | 0.12 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin Aldehyde | ND | Ui | 1.1 | 1.1 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan Sulfate | ND | U | 1.0 | 0.079 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDT | ND | Ui | 1.0 | 0.45 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin Ketone | ND | U | 1.0 | 0.082 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Methoxychlor | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Toxaphene | ND | Ui | 50 | 19 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Chlordane | ND | U | 10 | 8.1 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDE | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDD | ND | U | 1.0 | 0.21 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDT | ND | U | 1.0 | 0.14 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Mirex | ND | U | 1.0 | 0.063 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |

**Comments:**

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/05/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/12/2007 |

## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-28-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-018 | **Basis:** | Dry |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 83 | 25-125 | 07/30/08 | Acceptable |
| Decachlorobiphenyl | 86 | 22-142 | 07/30/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/04/2007
**Date Received:** 09/06/2007

## Organochlorine Pesticides

**Sample Name:** FBA3-03-S
**Lab Code:** K0806166-019

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| **alpha-BHC** | **0.56** | JP | 1.0 | 0.26 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Hexachlorobenzene | ND | U | 1.0 | 0.079 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| beta-BHC | ND | U | 1.0 | 0.30 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-BHC (Lindane) | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| delta-BHC | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor | ND | Ui | 1.0 | 0.15 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Aldrin | ND | U | 1.0 | 0.15 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor Epoxide | ND | Ui | 1.0 | 0.29 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-Chlordane† | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan I | ND | U | 1.0 | 0.17 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| alpha-Chlordane | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Dieldrin | ND | U | 1.0 | 0.29 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDE | ND | Ui | 1.0 | 0.41 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin | ND | U | 1.0 | 0.20 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan II | ND | Ui | 1.0 | 0.26 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDD | ND | U | 1.0 | 0.12 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin Aldehyde | ND | Ui | 1.0 | 0.21 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan Sulfate | ND | Ui | 1.0 | 0.14 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **4,4'-DDT** | **0.65** | JP | 1.0 | 0.064 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | * |
| Endrin Ketone | ND | U | 1.0 | 0.082 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Methoxychlor | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Toxaphene | ND | Ui | 50 | 25 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Chlordane | ND | U | 10 | 8.1 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDE | ND | Ui | 1.0 | 0.80 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDD | ND | U | 1.0 | 0.21 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDT | ND | Ui | 1.0 | 0.71 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Mirex | ND | U | 1.0 | 0.063 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |

* See Case Narrative

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/04/2007
**Date Received:** 09/06/2007

## Organochlorine Pesticides

**Sample Name:** FBA3-03-S
**Lab Code:** K0806166-019

**Units:** ug/Kg
**Basis:** Dry

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 80 | 25-125 | 07/30/08 | Acceptable |
| Decachlorobiphenyl | 75 | 22-142 | 07/30/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/04/2007
**Date Received:** 09/06/2007

## Organochlorine Pesticides

**Sample Name:** FBA3-06-S
**Lab Code:** K0806166-020

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | ND | Ui | 1.0 | 0.48 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **Hexachlorobenzene** | **1.1** | | 1.0 | 0.079 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| beta-BHC | ND | U | 1.0 | 0.30 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-BHC (Lindane) | ND | U | 1.0 | 0.15 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| delta-BHC | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor | ND | U | 1.0 | 0.080 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Aldrin | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor Epoxide | ND | U | 1.0 | 0.13 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-Chlordane† | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **Endosulfan I** | **0.31** | J | 1.0 | 0.17 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| alpha-Chlordane | ND | U | 1.0 | 0.23 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Dieldrin | ND | U | 1.0 | 0.29 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDE | ND | U | 1.0 | 0.10 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin | ND | Ui | 1.0 | 0.25 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan II | ND | U | 1.0 | 0.19 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDD | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **Endrin Aldehyde** | **0.87** | J | 1.0 | 0.053 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan Sulfate | ND | Ui | 1.0 | 0.094 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDT | ND | U | 1.0 | 0.064 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin Ketone | ND | U | 1.0 | 0.082 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Methoxychlor | ND | Ui | 1.0 | 0.12 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Toxaphene | ND | Ui | 50 | 47 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Chlordane | ND | U | 10 | 8.1 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDE | ND | Ui | 1.0 | 1.0 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDD | ND | U | 1.0 | 0.21 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDT | ND | U | 1.0 | 0.14 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Mirex | ND | U | 1.0 | 0.063 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/04/2007
**Date Received:** 09/06/2007

## Organochlorine Pesticides

**Sample Name:** FBA3-06-S
**Lab Code:** K0806166-020

**Units:** ug/Kg
**Basis:** Dry

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 80 | 25-125 | 07/30/08 | Acceptable |
| Decachlorobiphenyl | 72 | 22-142 | 07/30/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA3-18-S
**Lab Code:** K0806166-021

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | ND | Ui | 1.1 | 0.54 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Hexachlorobenzene | ND | U | 1.1 | 0.082 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| beta-BHC | ND | Ui | 1.1 | 1.1 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-BHC (Lindane) | ND | U | 1.1 | 0.16 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| delta-BHC | ND | Ui | 1.1 | 1.1 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor | ND | Ui | 1.1 | 0.25 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Aldrin | ND | U | 1.1 | 0.16 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Heptachlor Epoxide | ND | U | 1.1 | 0.14 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| gamma-Chlordane† | ND | U | 1.1 | 0.067 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan I | ND | U | 1.1 | 0.18 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| alpha-Chlordane | ND | U | 1.1 | 0.24 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Dieldrin | ND | U | 1.1 | 0.30 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDE | ND | U | 1.1 | 0.11 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin | ND | U | 1.1 | 0.21 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endosulfan II | ND | U | 1.1 | 0.20 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDD | ND | U | 1.1 | 0.13 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **Endrin Aldehyde** | **4.8** | | 1.1 | 0.055 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| **Endosulfan Sulfate** | **0.23** | J | 1.1 | 0.082 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 4,4'-DDT | ND | Ui | 1.1 | 0.14 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Endrin Ketone | ND | U | 1.1 | 0.085 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Methoxychlor | ND | U | 1.1 | 0.11 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Toxaphene | ND | U | 52 | 9.6 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Chlordane | ND | U | 11 | 8.4 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDE | ND | U | 1.1 | 0.24 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDD | ND | U | 1.1 | 0.22 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| 2,4'-DDT | ND | Ui | 1.1 | 0.23 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |
| Mirex | ND | U | 1.1 | 0.066 | 1 | 07/17/08 | 07/30/08 | KWG0806851 | |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** 09/05/2007
**Date Received:** 09/12/2007

## Organochlorine Pesticides

**Sample Name:** FBA3-18-S
**Lab Code:** K0806166-021

**Units:** ug/Kg
**Basis:** Dry

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 78 | 25-125 | 07/30/08 | Acceptable |
| Decachlorobiphenyl | 71 | 22-142 | 07/30/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | NA |
| **Sample Matrix:** | Sediment | **Date Received:** | NA |

## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | Method Blank | **Units:** | ug/Kg |
| **Lab Code:** | KWG0806841-13 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8081A | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | ND | U | 0.48 | 0.26 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Hexachlorobenzene | ND | U | 0.48 | 0.079 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| beta-BHC | ND | U | 0.48 | 0.30 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| gamma-BHC (Lindane) | ND | U | 0.48 | 0.15 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| delta-BHC | ND | U | 0.48 | 0.055 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Heptachlor | ND | U | 0.48 | 0.080 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Aldrin | ND | U | 0.48 | 0.15 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Heptachlor Epoxide | ND | U | 0.48 | 0.13 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| gamma-Chlordane† | ND | U | 0.48 | 0.064 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Endosulfan I | ND | U | 0.48 | 0.17 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| alpha-Chlordane | ND | U | 0.48 | 0.23 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Dieldrin | ND | U | 0.48 | 0.29 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| 4,4'-DDE | ND | U | 0.48 | 0.10 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Endrin | ND | U | 0.48 | 0.20 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Endosulfan II | ND | U | 0.48 | 0.19 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| 4,4'-DDD | ND | U | 0.48 | 0.12 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Endrin Aldehyde | ND | U | 0.48 | 0.053 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Endosulfan Sulfate | ND | U | 0.48 | 0.079 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| 4,4'-DDT | ND | U | 0.48 | 0.064 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Endrin Ketone | ND | U | 0.48 | 0.082 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Methoxychlor | ND | U | 0.48 | 0.10 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Toxaphene | ND | U | 24 | 9.2 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Chlordane | ND | U | 8.1 | 8.1 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| 2,4'-DDE | ND | U | 0.48 | 0.23 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| 2,4'-DDD | ND | U | 0.48 | 0.21 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| 2,4'-DDT | ND | U | 0.48 | 0.14 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |
| Mirex | ND | U | 0.48 | 0.063 | 1 | 07/16/08 | 07/25/08 | KWG0806841 | |

**Comments:**

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | NA |
| **Sample Matrix:** | Sediment | **Date Received:** | NA |

## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | Method Blank | **Units:** | ug/Kg |
| **Lab Code:** | KWG0806841-13 | **Basis:** | Dry |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 73 | 25-125 | 07/25/08 | Acceptable |
| Decachlorobiphenyl | 96 | 22-142 | 07/25/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Collected:** NA
**Date Received:** NA

## Organochlorine Pesticides

**Sample Name:** Method Blank
**Lab Code:** KWG0806851-13

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | ND | U | 0.50 | 0.26 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Hexachlorobenzene | ND | U | 0.50 | 0.079 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| beta-BHC | ND | U | 0.50 | 0.30 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| gamma-BHC (Lindane) | ND | U | 0.50 | 0.15 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| delta-BHC | ND | Ui | 0.50 | 0.070 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Heptachlor | ND | U | 0.50 | 0.080 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Aldrin | ND | U | 0.50 | 0.15 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Heptachlor Epoxide | ND | U | 0.50 | 0.13 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| gamma-Chlordane† | ND | U | 0.50 | 0.064 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Endosulfan I | ND | U | 0.50 | 0.17 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| alpha-Chlordane | ND | U | 0.50 | 0.23 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Dieldrin | ND | U | 0.50 | 0.29 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| 4,4'-DDE | ND | U | 0.50 | 0.10 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Endrin | ND | U | 0.50 | 0.20 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Endosulfan II | ND | U | 0.50 | 0.19 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| 4,4'-DDD | ND | U | 0.50 | 0.12 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Endrin Aldehyde | ND | U | 0.50 | 0.053 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Endosulfan Sulfate | ND | U | 0.50 | 0.079 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| 4,4'-DDT | ND | U | 0.50 | 0.064 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Endrin Ketone | ND | U | 0.50 | 0.082 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Methoxychlor | ND | U | 0.50 | 0.10 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Toxaphene | ND | U | 25 | 9.2 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Chlordane | ND | U | 8.1 | 8.1 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| 2,4'-DDE | ND | U | 0.50 | 0.23 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| 2,4'-DDD | ND | U | 0.50 | 0.21 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| 2,4'-DDT | ND | U | 0.50 | 0.14 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |
| Mirex | ND | U | 0.50 | 0.063 | 1 | 07/17/08 | 07/31/08 | KWG0806851 | |

**Comments:**

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | NA |
| **Sample Matrix:** | Sediment | **Date Received:** | NA |

## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | Method Blank | **Units:** | ug/Kg |
| **Lab Code:** | KWG0806851-13 | **Basis:** | Dry |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Tetrachloro-m-xylene | 81 | 25-125 | 07/31/08 | Acceptable |
| Decachlorobiphenyl | 97 | 22-142 | 07/31/08 | Acceptable |

**† Analyte Comments**

| | |
|---|---|
| gamma-Chlordane | For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane. |

**Comments:**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166

## Surrogate Recovery Summary
## Organochlorine Pesticides

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Units:** PERCENT
**Level:** Low

| Sample Name | Lab Code | Sur1 | Sur2 |
|---|---|---|---|
| FB-A1-14 | K0806166-001 | 67 | 86 |
| FB-A1-18 | K0806166-002 | 56 | 83 |
| FB-A1-09 | K0806166-003 | 66 | 82 |
| FBA2-30-S | K0806166-004 | 70 | 70 |
| FBA2-40-S | K0806166-005 | 66 | 87 |
| FBA2-56-S | K0806166-006 | 52 | 69 |
| FBA3-36-S | K0806166-007 | 64 | 89 |
| FBA3-37-S | K0806166-008 | 67 | 87 |
| FBA3-42-S | K0806166-009 | 56 | 87 |
| FBA4-03-S | K0806166-010 | 67 | 84 |
| FBA4-06-S | K0806166-011 | 81 | 91 |
| FBA4-08-S | K0806166-012 | 86 | 87 |
| FBA4-11-S | K0806166-013 | 78 | 85 |
| FBA4-14-S | K0806166-014 | 83 | 88 |
| FBA3-22b-S | K0806166-015 | 79 | 84 |
| FBA4-30-S | K0806166-016 | 73 | 66 |
| FBA4-29-S | K0806166-017 | 70 | 70 |
| FBA4-28-S | K0806166-018 | 83 | 86 |
| FBA3-03-S | K0806166-019 | 80 | 75 |
| FBA3-06-S | K0806166-020 | 80 | 72 |
| FBA3-18-S | K0806166-021 | 78 | 71 |
| Method Blank | KWG0806841-13 | 73 | 96 |
| Method Blank | KWG0806851-13 | 81 | 97 |
| FB-A1-09MS | KWG0806841-1 | 47 | 66 |
| FBA2-30-SMS | KWG0806841-10 | 60 | 82 |
| FBA2-40-SMS | KWG0806841-4 | 54 | 73 |
| FBA2-56-SMS | KWG0806841-7 | 55 | 83 |
| FBA3-22b-SMS | KWG0806851-1 | 72 | 74 |
| FBA4-30-SMS | KWG0806851-10 | 68 | 75 |
| FBA4-29-SMS | KWG0806851-4 | 76 | 74 |
| FBA4-28-SMS | KWG0806851-7 | 76 | 77 |
| Lab Control Sample | KWG0806841-2 | 66 | 95 |
| Duplicate Lab Control Sample | KWG0806841-3 | 62 | 84 |
| Lab Control Sample | KWG0806851-2 | 85 | 95 |

**Surrogate Recovery Control Limits (%)**

| | | |
|---|---|---|
| Sur1 = | Tetrachloro-m-xylene | 25-125 |
| Sur2 = | Decachlorobiphenyl | 22-142 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166

## Surrogate Recovery Summary
## Organochlorine Pesticides

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Units:** PERCENT
**Level:** Low

| Sample Name | Lab Code | Sur1 | Sur2 |
|---|---|---|---|
| Duplicate Lab Control Sample | KWG0806851-3 | 82 | 91 |

**Surrogate Recovery Control Limits (%)**

| | | |
|---|---|---|
| Sur1 = | Tetrachloro-m-xylene | 25-125 |
| Sur2 = | Decachlorobiphenyl | 22-142 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**
**Results flagged with a pound (#) indicate the control criteria is not applicable.**

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Extracted:** | 07/16/2008 |
| **Sample Matrix:** | Sediment | **Date Analyzed:** | 07/26/2008 |

## Matrix Spike Summary
## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | FB-A1-09 | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-003 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8081A | **Extraction Lot:** | KWG0806841 |

| | | FB-A1-09MS KWG0806841-1 Matrix Spike | | | | |
|---|---|---|---|---|---|---|
| **Analyte Name** | **Sample Result** | **Result** | **Expected** | **%Rec** | | **%Rec Limits** |
| alpha-BHC | ND | 10.9 | 19.8 | 55 | | 36-145 |
| Hexachlorobenzene | ND | 11.1 | 19.8 | 56 | | 15-139 |
| beta-BHC | ND | 12.1 | 19.8 | 61 | # | 38-148 |
| gamma-BHC (Lindane) | ND | 10.5 | 19.8 | 53 | | 33-154 |
| delta-BHC | ND | 12.6 | 19.8 | 64 | | 40-164 |
| Heptachlor | ND | 9.71 | 19.8 | 49 | | 38-145 |
| Aldrin | ND | 10.1 | 19.8 | 51 | | 37-143 |
| Heptachlor Epoxide | ND | 10.8 | 19.8 | 55 | # | 29-150 |
| gamma-Chlordane | ND | 11.6 | 19.8 | 59 | | 27-149 |
| Endosulfan I | 2.8 | 10.8 | 19.8 | 41 | | 18-133 |
| alpha-Chlordane | ND | 11.9 | 19.8 | 60 | | 33-141 |
| Dieldrin | ND | 11.0 | 19.8 | 56 | | 37-146 |
| 4,4'-DDE | ND | 11.4 | 19.8 | 58 | | 32-156 |
| Endrin | ND | 12.3 | 19.8 | 62 | | 34-161 |
| Endosulfan II | ND | 10.3 | 19.8 | 52 | | 19-147 |
| 4,4'-DDD | ND | 10.7 | 19.8 | 54 | | 26-161 |
| Endrin Aldehyde | ND | 7.66 | 19.8 | 39 | | 11-147 |
| Endosulfan Sulfate | ND | 13.1 | 19.8 | 66 | | 28-149 |
| 4,4'-DDT | ND | 11.4 | 19.8 | 58 | | 22-174 |
| Endrin Ketone | ND | 11.3 | 19.8 | 57 | | 36-149 |
| Methoxychlor | ND | 12.0 | 19.8 | 61 | | 37-162 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Extracted:** | 07/16/2008 |
| **Sample Matrix:** | Sediment | **Date Analyzed:** | 07/26/2008 |

## Matrix Spike Summary
## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA2-30-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-004 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8081A | **Extraction Lot:** | KWG0806841 |

| | | FBA2-30-SMS<br>KWG0806841-10<br>Matrix Spike | | | |
|---|---|---|---|---|---|
| **Analyte Name** | **Sample Result** | **Result** | **Expected** | **%Rec** | **%Rec Limits** |
| Toxaphene | ND | 207 | 199 | 104 | 10-184 |
| Chlordane | ND | 188 | 199 | 94 | 41-153 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Extracted:** | 07/16/2008 |
| **Sample Matrix:** | Sediment | **Date Analyzed:** | 07/26/2008 |

## Matrix Spike Summary
## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA2-40-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-005 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8081A | **Extraction Lot:** | KWG0806841 |

| | | FBA2-40-SMS<br>KWG0806841-4<br>Matrix Spike | | | |
|---|---|---|---|---|---|
| **Analyte Name** | **Sample Result** | **Result** | **Expected** | **%Rec** | **%Rec Limits** |
| Mirex | ND | 14.3 | 19.9 | 72 | 10-168 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Extracted:** 07/16/2008
**Date Analyzed:** 07/26/2008

## Matrix Spike Summary
## Organochlorine Pesticides

**Sample Name:** FBA2-56-S
**Lab Code:** K0806166-006

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low
**Extraction Lot:** KWG0806841

| Analyte Name | Sample Result | FBA2-56-SMS KWG0806841-7 Matrix Spike Result | Expected | %Rec | %Rec Limits |
|---|---|---|---|---|---|
| 2,4'-DDD | ND | 16.4 | 19.8 | 83 | 10-184 |
| 2,4'-DDE | ND | 15.6 | 19.8 | 79 | 17-172 |
| 2,4'-DDT | ND | 16.2 | 19.8 | 82 | 10-180 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Extracted:** 07/17/2008
**Date Analyzed:** 08/01/2008

## Matrix Spike Summary
## Organochlorine Pesticides

**Sample Name:** FBA3-22b-S
**Lab Code:** K0806166-015

**Units:** ug/Kg
**Basis:** Dry

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Level:** Low
**Extraction Lot:** KWG0806851

| Analyte Name | Sample Result | FBA3-22b-SMS KWG0806851-1 Matrix Spike Result | Expected | %Rec | | %Rec Limits |
|---|---|---|---|---|---|---|
| alpha-BHC | 1.4 | 13.1 | 19.9 | 59 | | 36-145 |
| Hexachlorobenzene | ND | 12.1 | 19.9 | 61 | | 15-139 |
| beta-BHC | ND | 11.2 | 19.9 | 56 | | 38-148 |
| gamma-BHC (Lindane) | ND | 13.3 | 19.9 | 67 | | 33-154 |
| delta-BHC | ND | 14.4 | 19.9 | 72 | | 40-164 |
| Heptachlor | ND | 12.3 | 19.9 | 62 | | 38-145 |
| Aldrin | ND | 12.4 | 19.9 | 62 | | 37-143 |
| Heptachlor Epoxide | ND | 12.7 | 19.9 | 64 | | 29-150 |
| gamma-Chlordane | ND | 12.6 | 19.9 | 63 | | 27-149 |
| Endosulfan I | ND | 11.0 | 19.9 | 55 | | 18-133 |
| alpha-Chlordane | ND | 12.4 | 19.9 | 62 | | 33-141 |
| Dieldrin | ND | 12.9 | 19.9 | 65 | | 37-146 |
| 4,4'-DDE | ND | 13.9 | 19.9 | 70 | | 32-156 |
| Endrin | ND | 14.4 | 19.9 | 72 | | 34-161 |
| Endosulfan II | ND | 12.3 | 19.9 | 62 | | 19-147 |
| 4,4'-DDD | ND | 13.3 | 19.9 | 67 | | 26-161 |
| Endrin Aldehyde | ND | 8.11 | 19.9 | 41 | # | 11-147 |
| Endosulfan Sulfate | ND | 12.9 | 19.9 | 65 | | 28-149 |
| 4,4'-DDT | ND | 14.2 | 19.9 | 71 | | 22-174 |
| Endrin Ketone | ND | 12.5 | 19.9 | 63 | | 36-149 |
| Methoxychlor | ND | 13.5 | 19.9 | 68 | | 37-162 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Extracted:** | 07/17/2008 |
| **Sample Matrix:** | Sediment | **Date Analyzed:** | 07/30/2008 |

## Matrix Spike Summary
## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-30-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-016 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8081A | **Extraction Lot:** | KWG0806851 |

| | | FBA4-30-SMS<br>KWG0806851-10<br>Matrix Spike | | | |
|---|---|---|---|---|---|
| **Analyte Name** | **Sample Result** | **Result** | **Expected** | **%Rec** | **%Rec Limits** |
| Toxaphene | ND | 140 | 198 | 71 | 10-184 |
| Chlordane | ND | 164 | 198 | 83 | 41-153 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Extracted:** | 07/17/2008 |
| **Sample Matrix:** | Sediment | **Date Analyzed:** | 07/30/2008 |

## Matrix Spike Summary
## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-29-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-017 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8081A | **Extraction Lot:** | KWG0806851 |

| | | FBA4-29-SMS KWG0806851-4 Matrix Spike | | | |
|---|---|---|---|---|---|
| **Analyte Name** | **Sample Result** | **Result** | **Expected** | **%Rec** | **%Rec Limits** |
| Mirex | ND | 13.1 | 20.0 | 65 | 10-168 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Extracted:** | 07/17/2008 |
| **Sample Matrix:** | Sediment | **Date Analyzed:** | 07/30/2008 |

## Matrix Spike Summary
## Organochlorine Pesticides

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-28-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-018 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8081A | **Extraction Lot:** | KWG0806851 |

| | | FBA4-28-SMS<br>KWG0806851-7<br>Matrix Spike | | | |
|---|---|---|---|---|---|
| **Analyte Name** | **Sample Result** | **Result** | **Expected** | **%Rec** | **%Rec Limits** |
| 2,4'-DDD | ND | 13.3 | 19.9 | 67 | 10-184 |
| 2,4'-DDE | ND | 14.0 | 19.9 | 70 | 17-172 |
| 2,4'-DDT | ND | 13.1 | 19.9 | 66 | 10-180 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

**Results flagged with a pound (#) indicate the control criteria is not applicable.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Extracted:** 07/16/2008
**Date Analyzed:** 07/25/2008 - 07/26/2008

## Lab Control Spike/Duplicate Lab Control Spike Summary
## Organochlorine Pesticides

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Units:** ug/Kg
**Basis:** Dry
**Level:** Low
**Extraction Lot:** KWG0806841

| | Lab Control Sample KWG0806841-2 Lab Control Spike | | | Duplicate Lab Control Sample KWG0806841-3 Duplicate Lab Control Spike | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte Name** | **Result** | **Expected** | **%Rec** | **Result** | **Expected** | **%Rec** | **%Rec Limits** | **RPD** | **RPD Limit** |
| alpha-BHC | 14.2 | 20.0 | 71 | 14.0 | 20.0 | 70 | 45-150 | 2 | 40 |
| Hexachlorobenzene | 14.4 | 20.0 | 72 | 13.9 | 20.0 | 69 | 18-122 | 4 | 40 |
| beta-BHC | 17.3 | 20.0 | 87 | 16.4 | 20.0 | 82 | 47-149 | 5 | 40 |
| gamma-BHC (Lindane) | 15.0 | 20.0 | 75 | 14.7 | 20.0 | 74 | 48-146 | 2 | 40 |
| delta-BHC | 18.4 | 20.0 | 92 | 17.3 | 20.0 | 87 | 59-162 | 6 | 40 |
| Heptachlor | 14.1 | 20.0 | 70 | 13.8 | 20.0 | 69 | 47-142 | 2 | 40 |
| Aldrin | 15.0 | 20.0 | 75 | 14.6 | 20.0 | 73 | 43-141 | 3 | 40 |
| Heptachlor Epoxide | 17.0 | 20.0 | 85 | 15.7 | 20.0 | 79 | 48-140 | 8 | 40 |
| gamma-Chlordane | 17.7 | 20.0 | 89 | 16.2 | 20.0 | 81 | 42-145 | 9 | 40 |
| Endosulfan I | 15.8 | 20.0 | 79 | 14.6 | 20.0 | 73 | 36-124 | 8 | 40 |
| alpha-Chlordane | 16.4 | 20.0 | 82 | 15.3 | 20.0 | 77 | 42-145 | 7 | 40 |
| Dieldrin | 17.1 | 20.0 | 86 | 15.8 | 20.0 | 79 | 50-142 | 8 | 40 |
| 4,4'-DDE | 17.4 | 20.0 | 87 | 16.0 | 20.0 | 80 | 51-149 | 8 | 40 |
| Endrin | 18.3 | 20.0 | 91 | 16.5 | 20.0 | 82 | 54-155 | 10 | 40 |
| Endosulfan II | 15.9 | 20.0 | 79 | 14.5 | 20.0 | 72 | 42-130 | 9 | 40 |
| 4,4'-DDD | 17.7 | 20.0 | 89 | 16.0 | 20.0 | 80 | 51-152 | 10 | 40 |
| Endrin Aldehyde | 14.5 | 20.0 | 72 | 13.6 | 20.0 | 68 | 31-139 | 6 | 40 |
| Endosulfan Sulfate | 19.0 | 20.0 | 95 | 17.3 | 20.0 | 87 | 48-143 | 9 | 40 |
| 4,4'-DDT | 19.4 | 20.0 | 97 | 17.4 | 20.0 | 87 | 59-151 | 11 | 40 |
| Endrin Ketone | 17.8 | 20.0 | 89 | 16.1 | 20.0 | 81 | 41-158 | 10 | 40 |
| Methoxychlor | 19.4 | 20.0 | 97 | 17.3 | 20.0 | 86 | 55-153 | 12 | 40 |
| Toxaphene | 194 | 200 | 97 | 195 | 200 | 97 | 37-155 | 1 | 40 |
| Chlordane | 204 | 200 | 102 | 210 | 200 | 105 | 61-142 | 3 | 40 |
| 2,4'-DDE | 17.0 | 20.0 | 85 | 17.6 | 20.0 | 88 | 36-145 | 3 | 40 |
| 2,4'-DDD | 17.3 | 20.0 | 87 | 18.4 | 20.0 | 92 | 36-148 | 6 | 40 |
| 2,4'-DDT | 16.9 | 20.0 | 84 | 17.9 | 20.0 | 90 | 34-148 | 6 | 40 |
| Mirex | 17.4 | 20.0 | 87 | 17.9 | 20.0 | 90 | 46-128 | 3 | 40 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200
**Sample Matrix:** Sediment

**Service Request:** K0806166
**Date Extracted:** 07/17/2008
**Date Analyzed:** 07/31/2008 - 08/01/2008

## Lab Control Spike/Duplicate Lab Control Spike Summary
## Organochlorine Pesticides

**Extraction Method:** EPA 3540C
**Analysis Method:** 8081A

**Units:** ug/Kg
**Basis:** Dry
**Level:** Low
**Extraction Lot:** KWG0806851

| | Lab Control Sample KWG0806851-2 Lab Control Spike | | | Duplicate Lab Control Sample KWG0806851-3 Duplicate Lab Control Spike | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte Name** | **Result** | **Expected** | **%Rec** | **Result** | **Expected** | **%Rec** | **%Rec Limits** | **RPD** | **RPD Limit** |
| alpha-BHC | 17.5 | 20.0 | 87 | 16.7 | 20.0 | 83 | 45-150 | 5 | 40 |
| Hexachlorobenzene | 15.8 | 20.0 | 79 | 14.6 | 20.0 | 73 | 18-122 | 8 | 40 |
| beta-BHC | 18.2 | 20.0 | 91 | 16.6 | 20.0 | 83 | 47-149 | 9 | 40 |
| gamma-BHC (Lindane) | 17.7 | 20.0 | 88 | 16.9 | 20.0 | 85 | 48-146 | 4 | 40 |
| delta-BHC | 20.2 | 20.0 | 101 | 19.1 | 20.0 | 96 | 59-162 | 5 | 40 |
| Heptachlor | 17.0 | 20.0 | 85 | 16.3 | 20.0 | 82 | 47-142 | 4 | 40 |
| Aldrin | 17.5 | 20.0 | 87 | 16.7 | 20.0 | 84 | 43-141 | 4 | 40 |
| Heptachlor Epoxide | 17.3 | 20.0 | 86 | 16.5 | 20.0 | 82 | 48-140 | 5 | 40 |
| gamma-Chlordane | 17.7 | 20.0 | 89 | 16.5 | 20.0 | 83 | 42-145 | 7 | 40 |
| Endosulfan I | 15.7 | 20.0 | 78 | 15.2 | 20.0 | 76 | 36-124 | 3 | 40 |
| alpha-Chlordane | 17.5 | 20.0 | 87 | 16.2 | 20.0 | 81 | 42-145 | 8 | 40 |
| Dieldrin | 18.3 | 20.0 | 92 | 17.9 | 20.0 | 89 | 50-142 | 3 | 40 |
| 4,4'-DDE | 18.6 | 20.0 | 93 | 18.1 | 20.0 | 91 | 51-149 | 3 | 40 |
| Endrin | 19.7 | 20.0 | 98 | 19.5 | 20.0 | 97 | 54-155 | 1 | 40 |
| Endosulfan II | 16.2 | 20.0 | 81 | 15.8 | 20.0 | 79 | 42-130 | 2 | 40 |
| 4,4'-DDD | 18.6 | 20.0 | 93 | 20.1 | 20.0 | 100 | 51-152 | 8 | 40 |
| Endrin Aldehyde | 15.3 | 20.0 | 77 | 15.1 | 20.0 | 75 | 31-139 | 2 | 40 |
| Endosulfan Sulfate | 17.4 | 20.0 | 87 | 16.9 | 20.0 | 84 | 48-143 | 3 | 40 |
| 4,4'-DDT | 19.5 | 20.0 | 97 | 19.1 | 20.0 | 95 | 59-151 | 2 | 40 |
| Endrin Ketone | 17.3 | 20.0 | 86 | 16.9 | 20.0 | 85 | 41-158 | 2 | 40 |
| Methoxychlor | 18.7 | 20.0 | 94 | 18.2 | 20.0 | 91 | 55-153 | 3 | 40 |
| Toxaphene | 231 | 200 | 115 | 204 | 200 | 102 | 37-155 | 12 | 40 |
| Chlordane | 230 | 200 | 115 | 209 | 200 | 104 | 61-142 | 10 | 40 |
| 2,4'-DDE | 19.1 | 20.0 | 96 | 17.0 | 20.0 | 85 | 36-145 | 11 | 40 |
| 2,4'-DDD | 19.0 | 20.0 | 95 | 17.1 | 20.0 | 86 | 36-148 | 10 | 40 |
| 2,4'-DDT | 18.5 | 20.0 | 93 | 16.8 | 20.0 | 84 | 34-148 | 10 | 40 |
| Mirex | 15.6 | 20.0 | 78 | 15.0 | 20.0 | 75 | 46-128 | 4 | 40 |

**Results flagged with an asterisk (*) indicate values outside control criteria.**

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

# Polychlorinated Biphenyls
# PCB's
# EPA Method 8082

**COLUMBIA ANALYTICAL SERVICES, INC.**

**Client:** Science Application International Corpor
**Project:** Fidalgo Bay Sediment Investigation/01-0236-00-1204-200

**Service Request:** K0806166

## Cover Page - Organic Analysis Data Package
## Polychlorinated Biphenyls (PCBs)

| Sample Name | Lab Code | Date Collected | Date Received |
|---|---|---|---|
| FB-A1-14 | K0806166-001 | 09/20/2007 | 09/25/2007 |
| FB-A1-18 | K0806166-002 | 09/20/2007 | 09/25/2007 |
| FB-A1-09 | K0806166-003 | 09/20/2007 | 09/25/2007 |
| FBA2-30-S | K0806166-004 | 08/30/2007 | 09/06/2007 |
| FBA2-40-S | K0806166-005 | 08/30/2007 | 09/06/2007 |
| FBA2-56-S | K0806166-006 | 08/30/2007 | 09/06/2007 |
| FBA3-36-S | K0806166-007 | 09/04/2007 | 09/06/2007 |
| FBA3-37-S | K0806166-008 | 09/04/2007 | 09/06/2007 |
| FBA3-42-S | K0806166-009 | 09/04/2007 | 09/06/2007 |
| FBA4-03-S | K0806166-010 | 09/06/2007 | 09/12/2007 |
| FBA4-06-S | K0806166-011 | 09/06/2007 | 09/12/2007 |
| FBA4-08-S | K0806166-012 | 09/06/2007 | 09/12/2007 |
| FBA4-11-S | K0806166-013 | 09/06/2007 | 09/12/2007 |
| FBA4-14-S | K0806166-014 | 09/06/2007 | 09/12/2007 |
| FBA3-22b-S | K0806166-015 | 09/05/2007 | 09/12/2007 |
| FBA4-30-S | K0806166-016 | 09/05/2007 | 09/12/2007 |
| FBA4-29-S | K0806166-017 | 09/05/2007 | 09/12/2007 |
| FBA4-28-S | K0806166-018 | 09/05/2007 | 09/12/2007 |
| FBA3-03-S | K0806166-019 | 09/04/2007 | 09/06/2007 |
| FBA3-06-S | K0806166-020 | 09/04/2007 | 09/06/2007 |
| FBA3-18-S | K0806166-021 | 09/05/2007 | 09/12/2007 |
| FB-A1-18MS | KWG0806840-1 | 09/20/2007 | 09/25/2007 |
| FBA4-14-SMS | KWG0806850-1 | 09/06/2007 | 09/12/2007 |

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Les Kennedy

Date: 8/8/08 Title: Project Chemist

# Organic Analysis:
# Polychlorinated Biphenyls (PCBs)

## Summary Package

### Sample and QC Results

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/20/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/25/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FB-A1-14 | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-001 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 3.1 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 94 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/20/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/25/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FB-A1-18 | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-002 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 8.0 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 92 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/20/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/25/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FB-A1-09 | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-003 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 13 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 91 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 08/30/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/06/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA2-30-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-004 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 3.9 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 76 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 08/30/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/06/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA2-40-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-005 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 20 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 94 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 08/30/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/06/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA2-56-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-006 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 11 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | Ui | 9.9 | 1.8 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | Ui | 9.9 | 3.8 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 75 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/04/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/06/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA3-36-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-007 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 11 | 1.8 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 21 | 17 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | U | 11 | 1.8 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 11 | 1.8 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 11 | 1.8 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 11 | 1.8 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 11 | 1.8 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 98 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/04/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/06/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA3-37-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-008 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 20 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | Ui | 10 | 3.0 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 96 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/04/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/06/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA3-42-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-009 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 20 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | Ui | 10 | 10 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 95 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/06/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/12/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-03-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-010 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1221 | ND | Ui | 20 | 3.3 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1232 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1242 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1248 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1254 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |
| Aroclor 1260 | ND | U | 9.9 | 1.7 | 1 | 07/16/08 | 07/30/08 | KWG0806840 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 91 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/06/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/12/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-06-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-011 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1221 | ND | U | 20 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| **Aroclor 1260** | **2.5** | J | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 100 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/06/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/12/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-08-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-012 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1221 | ND | U | 20 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 97 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/06/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/12/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-11-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-013 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1221 | ND | U | 20 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1232 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1242 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1248 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1254 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1260 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 94 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/06/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/12/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-14-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-014 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | Ui | 9.9 | 1.8 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1221 | ND | Ui | 20 | 20 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1232 | ND | Ui | 9.9 | 9.9 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1242 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1248 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1254 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |
| Aroclor 1260 | ND | U | 9.9 | 1.7 | 1 | 07/17/08 | 07/30/08 | KWG0806850 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 95 | 38-144 | 07/30/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/05/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/12/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA3-22b-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-015 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | Ui | 10 | 3.8 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1221 | ND | Ui | 20 | 3.6 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1242 | ND | Ui | 10 | 10 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 99 | 38-144 | 07/31/08 | Acceptable |

**Comments:**

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Science Application International Corpor | **Service Request:** | K0806166 |
| **Project:** | Fidalgo Bay Sediment Investigation/01-0236-00-1204-200 | **Date Collected:** | 09/05/2007 |
| **Sample Matrix:** | Sediment | **Date Received:** | 09/12/2007 |

## Polychlorinated Biphenyls (PCBs)

| | | | |
|---|---|---|---|
| **Sample Name:** | FBA4-30-S | **Units:** | ug/Kg |
| **Lab Code:** | K0806166-016 | **Basis:** | Dry |
| **Extraction Method:** | EPA 3540C | **Level:** | Low |
| **Analysis Method:** | 8082 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | Ui | 10 | 10 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1221 | ND | Ui | 20 | 20 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1232 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1242 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1248 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1254 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |
| Aroclor 1260 | ND | U | 10 | 1.7 | 1 | 07/17/08 | 07/31/08 | KWG0806850 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|---|---|---|---|---|
| Decachlorobiphenyl | 84 | 38-144 | 07/31/08 | Acceptable |

**Comments:**