N60200.AR.002817
NAS CECIL FIELD, FL
5090.3a

# FINAL ACTION MEMORANDUM FOR POTENTIAL SOURCE OF CONTAMINATION 42 FORMER BOILERHOUSE/STEAM PLANT AND GENERAL STOREHOUSE YELLOW WATER WEAPONS AREA REVISION 1 NAS CECIL FIELD FL

1/31/2001

TETRA TECH NUS INC

**ACTION MEMORANDUM**

**DATE:** January 31, 2001

**SUBJECT:** Action Memorandum for Potential Source of Contamination (PSC) 42 – Former Boiler House/Steam Plant and General Storehouse (Yellow Water Weapons Area) at Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. (FL-517-002-2474)

**PREPARED BY:** Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

**PREPARED FOR:** Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

**THRU:** Scott Glass
BRAC Environmental Coordinator (BEC)

**TO:** NAS Cecil Field Administrative Record

## 1.0 PURPOSE

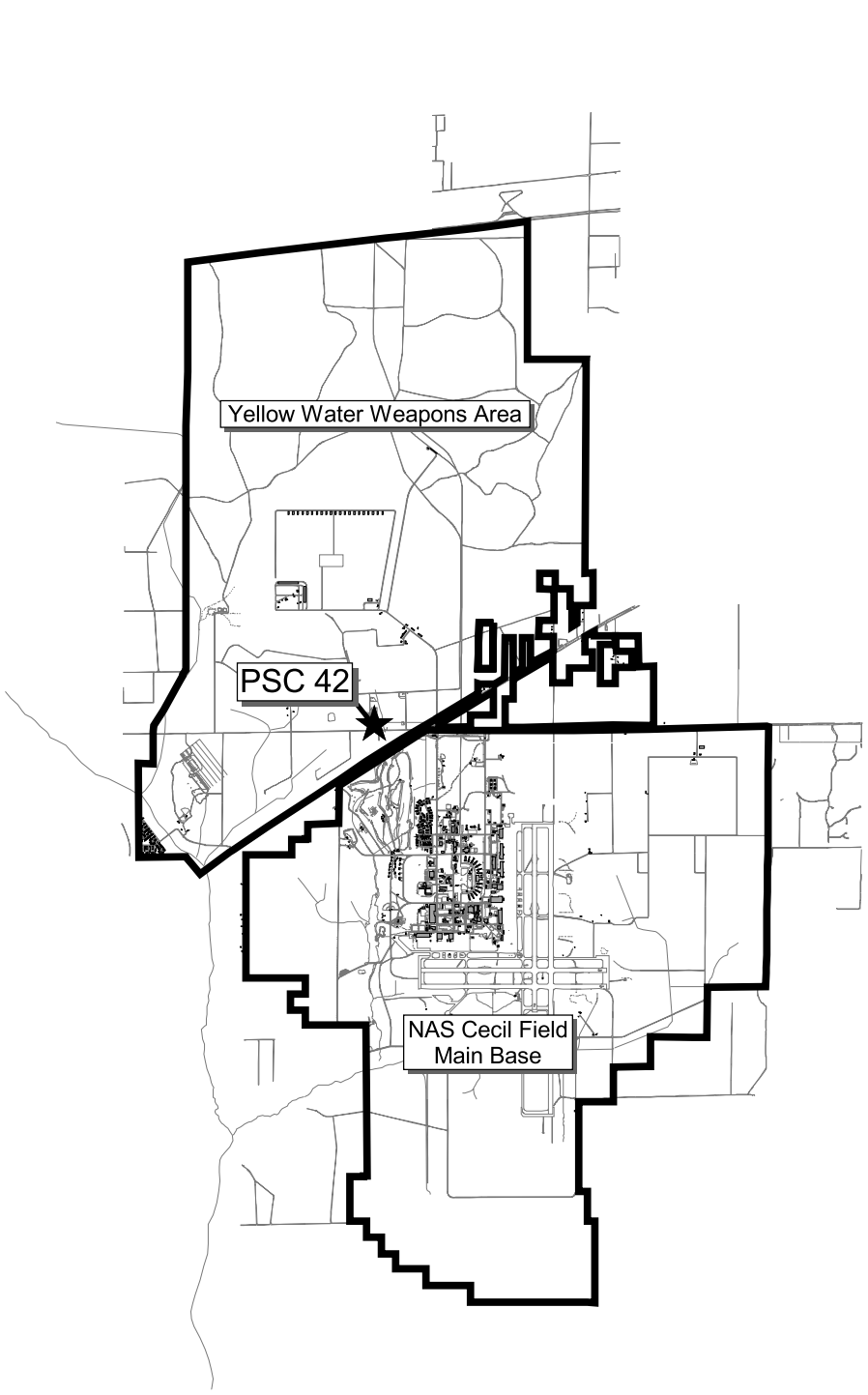
The purpose of this Action Memorandum for Potential Source of Contamination (PSC) 42 is to discuss the investigations performed, to identify the need for a removal action, and to present the proposed removal action to be conducted. This removal action will be performed in accordance with the National Contingency Plan (NCP), 40 CFR 300.415.

This Action Memorandum has been prepared by Tetra Tech NUS, Inc. (TtNUS) for the Department of the Navy Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM). The work was conducted under the Navy Comprehensive Long-Term Environmental Action Navy (CLEAN) Program, Contract Number N62467-94-D-0888, Contract Task Order (CTO) 0078.

## 2.0 SITE CONDITIONS AND BACKGROUND

### 2.1 Site Description

PSC 42 consists of the former Boiler House/Steam Plant and General Storehouse and immediate vicinity in the Yellow Water Weapons Area (YWWA) (Figure 2-1). The site is on Former “B” Street, near former Mariner Street. The buildings serviced the Naval Air Gunnery School (NAGS) that occupied much of the




| | | | |
|---|---|---|---|
| DRAWN BY MJJ | DATE 08May00 | GENERAL LOCATION MAP<br>PSC 42, YWWA STEAM PLANT<br>NAVAL AIR STATION CECIL FIELD<br>JACKSONVILLE, FLORIDA | CONTRACT NUMBER 0039 |
| CHECKED BY | DATE | | APPROVED BY DATE |
| COST/SCHEDULE-AREA | | | APPROVED BY DATE |
| SCALE AS NOTED | | | DRAWING NO. FIGURE 2-1 / REV 0 |

p:\gis\cecil\PSC42_ActionMemo 08May00 MJJ Site Location Map Layout

southwest portion of YWWA during the late 1940s and early 1950s. The Steam Plant and Storehouse were demolished about 40 years ago, along with most of the other NAGS facilities. Currently, all that remains of the structures are the foundations of the two buildings. The storehouse foundation is fairly intact, while the steam plant foundation is largely broken up. Other concrete rubble is on or near the steam plant foundation. A coal pocket for coal storage was located on the east side of the steam plant. A railroad spur once served the buildings, but was removed decades ago. The site is overgrown with vegetation. A small block structure, Building 311, is located at the west end of the steam plant foundation. This building was built in 1959 and was used for munitions storage. The site is flat and is surrounded by undeveloped or overgrown land (Figure 2-2). The area is in a former industrial setting, and the reuse plan identifies this area for educational uses.

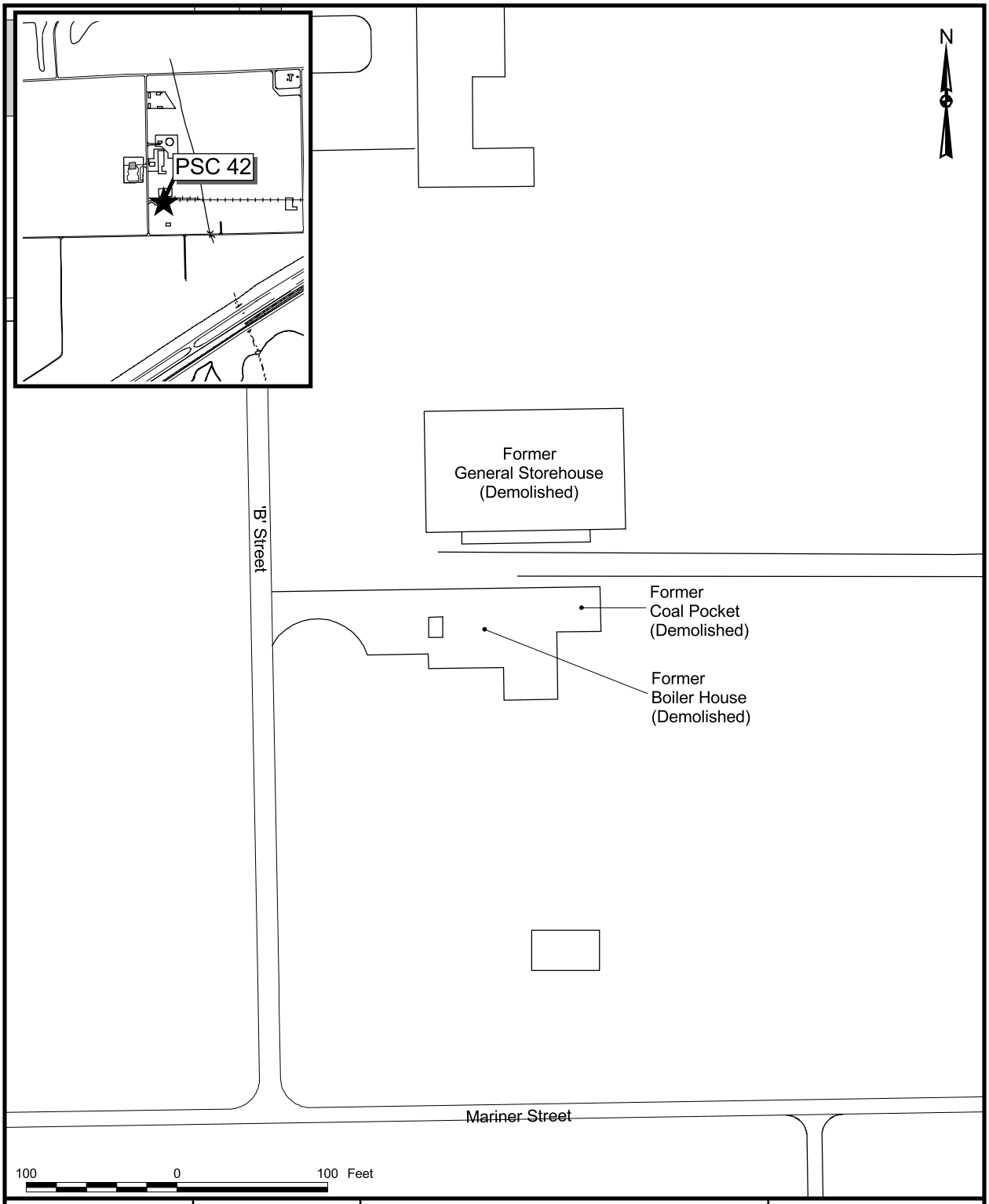
## 2.2 Site History

There is little information on the operations history of the steam plant and storehouse because the buildings were demolished in the late 1950s or early 1960s. The storehouse appears to have had a solid slab foundation and a loading dock along the railroad siding. The steam plant appears to have had a solid foundation also. Coal was used to fire the boilers based on the presence of the coal pocket. None of the existing drawings or aerial photographs show tanks, so petroleum fuels probably were not used to fire the boilers. The railroad spur that serviced the buildings also appears to have been removed during the NAGS demolition.

## 2.3 Previous Investigations

This area was initially evaluated during the Environmental Baseline Survey (EBS) (ABB Environmental Services, Inc. [ABB-ES], 1994). No specific environmental problems were identified in the report. The report speculated on the presence of an underground storage tank, but none was ever found. The EBS recommended additional evaluation for the area. A Phase II Sampling and Analysis program was conducted by ABB-ES. The results of the investigation were presented in the Sampling and Analysis Outline and Report (SAOR) for the Yellow Water Weapons Area (HLA, 1999). The investigation identified soil sample locations containing benzo(a)pyrene (BaP), arsenic, and barium at levels that exceeded the Florida Department of Environmental Protection (FDEP) soil cleanup target levels (SCTLs). At a well installed at the site, all groundwater concentrations were less than FDEP criteria or site-specific inorganic background data set values (HLA, 1998). No specific conclusions were made in the SAOR. The site was designated as PSC 42 in January 1999.

PSC 42 was investigated by TtNUS from April 1999 through April 2000. Eight sampling events were conducted to delineate the extent of polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TRPH), arsenic, chromium, barium, and antimony contamination in the soils.




| | | | |
|---|---|---|---|
| DRAWN BY MJJ | DATE 08May00 | SITE LAYOUT MAP<br>PSC 42, YWWA STEAM PLANT<br>NAVAL AIR STATION CECIL FIELD<br>JACKSONVILLE, FLORIDA | CONTRACT NUMBER 0039 |
| CHECKED BY | DATE | | APPROVED BY DATE |
| COST/SCHEDULE-AREA | | | APPROVED BY DATE |
| SCALE AS NOTED | | | DRAWING NO. FIGURE 2-2 / REV 0 |

p:\gis\cecil\PSC42_ActionMemo 08May00 MJJ Facility Location Layout

Sample locations are shown in Figure 2-3, and the analytical results are provided in Appendix A. Table 2-1 provides a summary of the positive analytical results for the samples collected. This table also provides the frequency and ranges of detected concentrations and the locations of the maximum concentrations of contaminants in soil.

### 2.4 Regulatory Agencies

NAS Cecil Field is on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List (NPL). Therefore the Navy is the lead agency and the United States Environmental Protection Agency (U.S. EPA) and the FDEP are the oversight agencies. U.S. EPA and FDEP have concurred on the removal determination. The Navy, U.S. EPA, FDEP, and Navy Contractors make up the BRAC Cleanup Team (BCT). Members of the BCT have been provided the authorization to expedite cleanups at NAS Cecil Field.

A Restoration Advisory Board (RAB) has been established, and remedial actions of this nature are presented to the RAB and the public for comment and input. The remedial action at PSC 42 has been identified as a time-critical removal action and will follow the appropriate measures with regards to public input and regulatory requirements.

## 3.0 ENDANGERMENT DETERMINATION

The removal action objective for PSC 42 is to prevent migration of contaminated soils. Due to current and future activities at the site, there is a potential exposure to nearby human populations.

Actual or threatened releases of contaminants at PSC 42, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

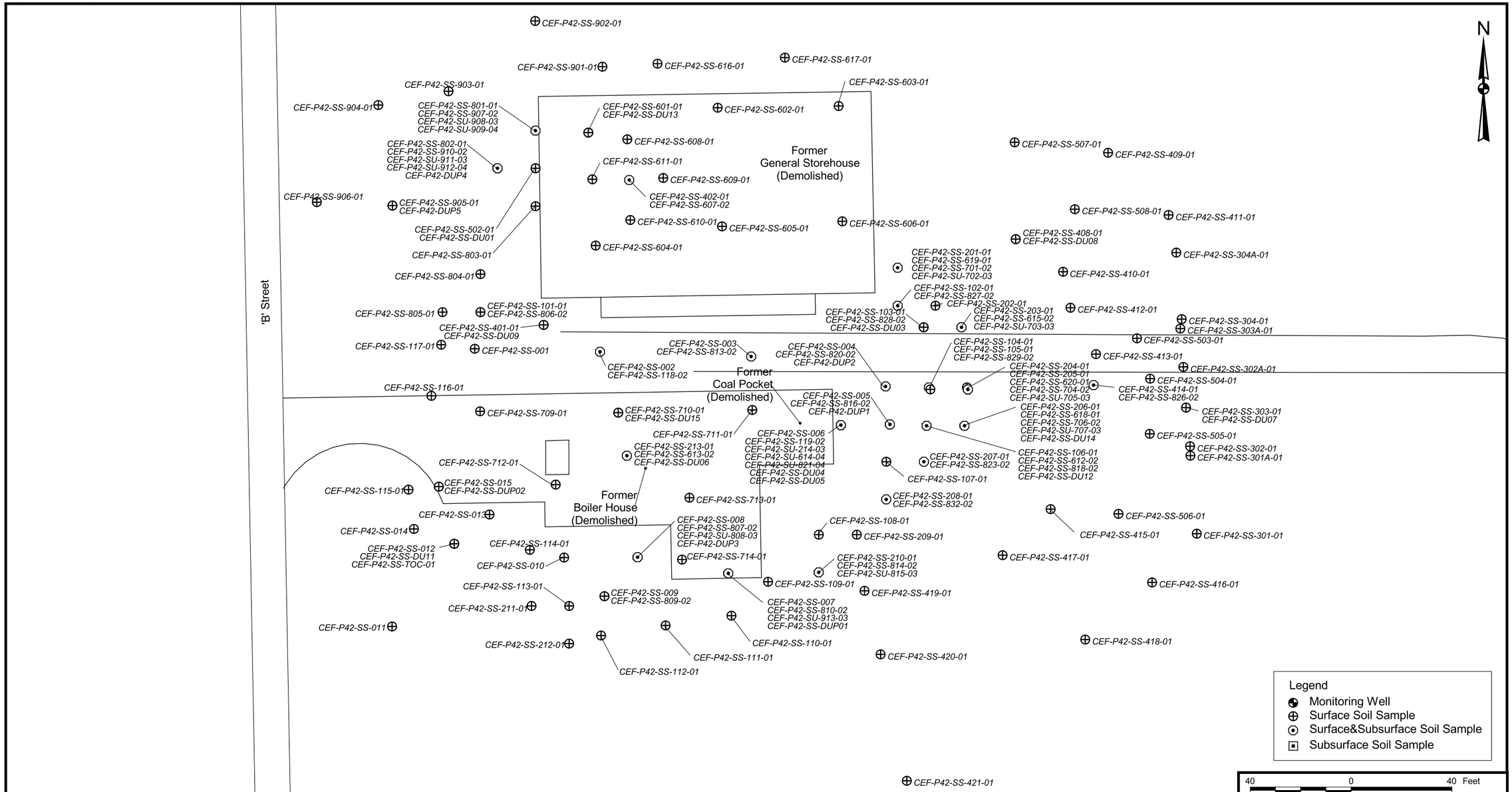
## 4.0 PROPOSED ACTIONS AND ESTIMATED COSTS

### 4.1 Proposed Action

The proposed remedial action is designed to address for soil in the area of PSC 42. There are no groundwater issues at this site. Investigations were conducted to delineate the extent of BaP, TRPH, arsenic, chromium, barium, and antimony contamination identified in the soils at PSC 42.

As documented in BCT meeting minutes number 1256 on August 22, 2000, the soils at this site shall be remediated to residential land use and protection of groundwater. This remedial action consists of the

p:\gis\cecil\PSC42_ActionMemo 06Sept00 MJJ Sample Location Layout




| NO. | DATE | REVISIONS | BY | CHKD | APPD | REFERENCES |
|---|---|---|---|---|---|---|
| | | | | | | |

| | |
|---|---|
| DRAWN BY MJJ | DATE 06Sept00 |
| CHECKED BY | DATE |
| COST/SCHED-AREA | |
| SCALE AS NOTED | |

SAMPLE LOCATIONS
PSC 42, YWWA STEAM PLANT
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

| | |
|---|---|
| CONTRACT NO. 0039 | |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| DRAWING NO. FIGURE 2-3 | REV. 0 |

**TABLE 2-1**

**SOIL ANALYTICAL RESULTS SUMMARY**
**PSC 42**
**NAVAL AIR STATION CECIL FIELD**
**JACKSONVILLE, FLORIDA**

| Parameter | Frequency of Detection | Range of Detections | Sample of Maximum Detection | Average of Positive Detections |
|---|---|---|---|---|
| **Semivolatile Organics Compounds (ug/kg)** | | | | |
| 1-Methylnaphthalene | 52/140 | 38 - 90200 | CEF-P42-SS-613-02 | 8909.6365 |
| 2-Methylnaphthalene | 67/140 | 74 - 187000 | CEF-P42-SS-613-02 | 12729.0604 |
| Acenaphthene | 52/140 | 22.6 - 239000 | CEF-P42-SS-613-02 | 11715.3375 |
| Acenaphthylene | 31/140 | 77 - 10900 | CEF-P42-SS-402-01 | 2463.7435 |
| Anthracene | 40/140 | 9.9 - 240000 | CEF-P42-SS-613-02 | 9183.635 |
| Benzo(a)anthracene | 81/140 | 10 - 93600 | CEF-P42-SS-613-02 | 4639.6821 |
| Benzo(a)pyrene | 79/140 | 8.9 - 55800 | CEF-P42-SS-613-02 | 2713.5152 |
| Benzo(b)fluoranthene | 86/140 | 14.5 - 44200 | CEF-P42-SS-613-02 | 2563.8733 |
| Benzo(g,h,i)perylene | 79/140 | 11 - 24900 | CEF-P42-SS-402-01 | 1598.2715 |
| Benzo(k)fluoranthene | 79/140 | 7.3 - 33600 | CEF-P42-SS-613-02 | 1719.0703 |
| Chrysene | 81/140 | 6 - 83200 | CEF-P42-SS-613-02 | 3367.8463 |
| Dibenzo(a,h)anthracene | 32/140 | 11 - 26400 | CEF-P42-SS-402-01 | 1299.9859 |
| Fluoranthene | 86/140 | 19.5 - 248000 | CEF-P42-SS-613-02 | 10085.4721 |
| Fluorene | 30/140 | 6.4 - 53100 | CEF-P42-SS-613-02 | 3328.53 |
| Indeno(1,2,3-cd)pyrene | 67/140 | 7.4 - 29400 | CEF-P42-SS-613-02 | 2081.0537 |
| Naphthalene | 47/140 | 52 - 68700 | CEF-P42-SS-613-02 | 8056.2532 |
| Phenanthrene | 70/140 | 15 - 216000 | CEF-P42-SS-613-02 | 11236.54 |
| Pyrene | 84/140 | 12.2 - 165000 | CEF-P42-SS-613-02 | 7891.994 |
| **Pesticides/PCBs (ug/kg)** | | | | |
| 4,4'-DDE | 1/4 | 76 | CEF-P42-SS-213-01 | 76 |
| 4,4'-DDT | 2/4 | 60 - 342 | CEF-P42-SS-008-01 | 201 |
| **Inorganics (mg/kg)** | | | | |
| Aluminum | 15/15 | 30.9 - 3320 | CEF-P42-SS-009-01 | 1324.16 |
| Antimony | 27/96 | 0.34 - 61.1 | CEF-P42-SS-213-01-D | 5.5273 |
| Arsenic | 39/102 | 0.47 - 42.1 | CEF-P42-SS-807-02 | 7.1149 |
| Barium | 86/95 | 1.9 - 442 | CEF-P42-SS-213-01-D | 33.9788 |
| Cadmium | 1/15 | 0.71 | CEF-P42-SS-008-01 | 0.71 |
| Calcium | 15/15 | 234 - 6680 | CEF-P42-SS-010-01 | 2001.0667 |
| Chromium | 48/73 | 0.57 - 257 | CEF-P42-SS-301-01 | 10.8593 |
| Cobalt | 9/15 | 0.04 - 2 | CEF-P42-SS-006-01 | 1.1939 |
| Copper | 15/15 | 1.6 - 23.1 | CEF-P42-SS-009-01 | 8.75 |
| Iron | 15/15 | 24.6 - 10400 | CEF-P42-SS-001-01 | 2745.84 |
| Lead | 44/44 | 0.51 - 637 | CEF-P42-SS-302-01 | 56.6775 |
| Magnesium | 14/15 | 48.4 - 1780 | CEF-P42-SS-008-01 | 287.4679 |
| Manganese | 15/15 | 0.78 - 353 | CEF-P42-SS-008-01 | 48.6887 |
| Nickel | 13/15 | 0.91 - 10.9 | CEF-P42-SS-008-01 | 3.235 |
| Potassium | 10/15 | 45.7 - 245 | CEF-P42-SS-008-01 | 126.04 |
| Selenium | 12/15 | 0.36 - 1.5 | CEF-P42-SS-006-01 | 0.84 |
| Silver | 2/15 | 1.8 - 1.9 | CEF-P42-SS-009-01 | 1.85 |
| Sodium | 15/15 | 305 - 454 | CEF-P42-SS-008-01 | 369.6333 |
| Vanadium | 14/15 | 0.88 - 7.1 | CEF-P42-SS-005-01 | 3.5943 |
| Vanadium | 14/15 | 0.88 - 7.1 | CEF-P42-SS-006-01 | 3.5943 |
| Zinc | 14/15 | 6.6 - 494 | CEF-P42-SS-008-01 | 102.9964 |
| **Petroleum Hydrocarbons (mg/kg)** | | | | |
| TRPH | 42/81 | 7.49 - 35500 | CEF-P42-SS-402-01 | 1513.228 |

excavation and off-site disposal of approximately 1,390 cy of soil with concentrations greater than three times the FDEP residential SCTLs or greater than the FDEP leachability to groundwater criteria. Excavation of these soils ensures that exposure concentrations, represented by the 95% upper confidence limit of the mean are less than the FDEP residential criteria and that leachability to groundwater exceedances are removed.

The remedial design to be implemented to mitigate the public health threat posed by direct human contact and inhalation of airborne particles is provided in Appendix B. The remedial action and disposal of the soil will be conducted in a manner that complies with all state, local, and Federal regulations including established quality assurance/quality controls (QA/QC) protocols provided in the U.S. EPA Region IV Environmental Investigations Standard Operating Procedure and Quality Assurance Manual (EISOPQAM) (U.S. EPA, 1996).

### 4.2 Applicable or Relevant and Appropriate Requirements (ARARs)

The proposed response action to excavate soils with contaminant concentrations in excess of three times the residential SCTLs or greater than the leachability to groundwater criteria to achieve the FDEP SCTLs will comply with the State ARARs.

### 4.3 Estimated Cost

The estimated cost of implementation of this alternative is $225,000.

## 5.0 EXPECTED CHANGE IN THE SITUATION SHOULD THE RESPONSE ACTION BE DELAYED OR NOT TAKEN.

Concentrations of BaP, TRPH, arsenic, chromium, barium, and antimony in soils at PSC 42 have been identified as exceeding FDEP residential SCTLs and leachability criteria. The BCT agreed that soils with concentrations three times the residential SCTLs or greater than the leachability criteria should be excavated and disposed of off-site to achieve the residential land use scenario. Delayed action will increase the risk to public health by leaving contamination in place, thus increasing the time that potential receptors are exposed to these elevated concentrations.

## 6.0 RECOMMENDATIONS

This action memorandum presents the selected removal action (Appendix B) for PSC 42 at NAS Cecil Field, developed in accordance with CERCLA as amended and consistent with the NCP. This decision to excavate and dispose soils off-site in a time-critical manner is based on information to be provided in the Administrative Record for this site.

Conditions at PSC 42 meet the NCP Section 300.415(b)(2) criteria for a removal, and it is recommend that this removal action be conducted. The total cost of this remedial action to comply with residential land use standards is estimated to be $225,000.

# REFERENCES

ABB Environmental Services, Inc. (ABB-ES), 1994. Base Realignment and Closure Environmental Baseline Survey Report Naval Air Station (NAS) Cecil Field, November.

Florida Department of Environmental Protection (FDEP), 1999. Contaminant Target Levels Rule, Soil, Groundwater and Surface Water Target Cleanup Levels, Florida Administrative Code (F.A.C.) Chapter 62-777, August.

Harding Lawson Associates (HLA), 1998. Inorganic Background Data Set.

HLA, 1999. Sampling and Analysis Outline and Report (SAOR), Yellow Water Weapons Area, Base Realignment and Closure. Prepared for SOUTHNAVFACENCOM, North Charleston, South Carolina. NAS Cecil Field, Jacksonville, Florida. January.

Tetra Tech NUS, Inc. (TtNUS), 1998. Base-Wide Generic Work Plan at NAS Cecil Field, Jacksonville, Florida. Prepared for SOUTHNAVFACENCOM, North Charleston, South Carolina, October.

U.S. Environmental Protection Agency (U.S. EPA), Region IV, 1996. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (EISOPQAM), Athens, Georgia.

# APPENDIX A

# ANALYTICAL RESULTS

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **001** | **002** | **003** | **004** | **005** | **006** | **007** | **008** | **009** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-001 | CEF-P42-SS-002 | CEF-P42-SS-003 | CEF-P42-SS-004 | CEF-P42-SS-005 | CEF-P42-SS-006 | CEF-P42-SS-007 | CEF-P42-SS-007 | CEF-P42-SS-008 |
| nsample | CEF-P42-SS-001-01 | CEF-P42-SS-002-01 | CEF-P42-SS-003-01 | CEF-P42-SS-004-01 | CEF-P42-SS-005-01 | CEF-P42-SS-006-01 | CEF-P42-SS-007-01 | CEF-P42-SS-007-01-D | CEF-P42-SS-008-01 |
| sample | CEF-P42-SS-001 | CEF-P42-SS-002 | CEF-P42-SS-003 | CEF-P42-SS-004 | CEF-P42-SS-005 | CEF-P42-SS-006 | CEF-P42-SS-007 | CEF-P42-SS-DUP01 | CEF-P42-SS-008 |
| sample_dat | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_001** | **c_002** | **c_003** | **c_004** | **c_005** | **c_006** | **c_007** | **c_008** | **c_009** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 144 | 18200 | 100 U | 5140 | 110 U | 45900 | 462 J | 110 UJ | 392 |
| 2-METHYLNAPHTHALENE | 110 U | 16200 | 424 | 2290 | 44300 | 19200 | 803 J | 333 J | 2220 |
| ACENAPHTHENE | 110 U | 36700 | 315 | 110 U | 110 U | 110 U | 110 UJ | 238 J | 1470 |
| ACENAPHTHYLENE | 156 | 110 U | 100 U | 110 U | 4400 | 4021 | 1620 J | 110 U | 110 U |
| ANTHRACENE | 110 U | 1220 | 100 U | 205 | 328 | 276 | 271 J | 110 UJ | 401 |
| BENZO(A)ANTHRACENE | 16 U | 2990 | 228 | 16 U | 16 U | 247 | 1330 J | 105 J | 954 |
| BENZO(A)PYRENE | 179 | 4330 | 387 | 16 U | 16 U | 16 U | 806 J | 492 J | 1390 |
| BENZO(B)FLUORANTHENE | 163 | 1490 | 387 | 16 U | 16 U | 226 | 2360 J | 383 J | 969 |
| BENZO(G,H,I)PERYLENE | 16 U | 3260 | 161 | 16 U | 16 U | 16 U | 478 J | 259 J | 805 |
| BENZO(K)FLUORANTHENE | 16 U | 1360 | 16 U | 16 U | 16 U | 16 U | 1420 J | 16 J | 127 |
| CHRYSENE | 16 U | 618 | 505 | 361 | 16 U | 16 U | 2127 J | 16 UJ | 16 U |
| DIBENZO(A,H)ANTHRACENE | 16 U | 3170 | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U |
| FLUORANTHENE | 864 | 4500 | 809 | 1480 | 1950 | 480 | 3970 J | 470 J | 2350 |
| FLUORENE | 110 U | 110 U | 131 | 110 U | 110 U | 110 U | 347 J | 110 UJ | 578 |
| INDENO(1,2,3-CD)PYRENE | 16 U | 3260 | 338 | 16 U | 16 U | 16 U | 1160 J | 244 J | 16 U |
| NAPHTHALENE | 110 U | 1650 | 100 U | 9800 | 20300 | 47500 | 207 J | 110 UJ | 300 |
| PHENANTHRENE | 110 U | 29100 | 294 | 6240 | 13000 | 110 U | 1180 J | 278 J | 2380 |
| PYRENE | 16 U | 3752 | 741 | 1290 | 2260 | 708 | 3000 J | 604 J | 2610 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | 70 UJ |
| 4,4'-DDE | | | | | | | | | 70 UJ |
| 4,4'-DDT | | | | | | | | | 342 J |
| ALDRIN | | | | | | | | | 35 U |
| ALPHA-BHC | | | | | | | | | 35 U |
| ALPHA-CHLORDANE | | | | | | | | | 70 U |
| BETA-BHC | | | | | | | | | 35 U |
| DELTA-BHC | | | | | | | | | 35 U |
| DIELDRIN | | | | | | | | | 35 UJ |
| ENDOSULFAN I | | | | | | | | | 35 UJ |
| ENDOSULFAN II | | | | | | | | | 70 UJ |
| ENDOSULFAN SULFATE | | | | | | | | | 70 UJ |
| ENDRIN | | | | | | | | | 70 U |
| ENDRIN ALDEHYDE | | | | | | | | | 70 U |
| ENDRIN KETONE | | | | | | | | | 70 UJ |
| GAMMA-BHC (LINDANE) | | | | | | | | | 35 U |
| GAMMA-CHLORDANE | | | | | | | | | 70 U |
| HEPTACHLOR | | | | | | | | | 35 U |
| HEPTACHLOR EPOXIDE | | | | | | | | | 35 U |
| METHOXYCHLOR | | | | | | | | | 140 UJ |
| TOXAPHENE | | | | | | | | | 3500 U |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | 455 | 1610 | 979 | 1770 | 1010 | 984 | 1750 | 1810 | 2950 |
| ANTIMONY | 1 U | 2.7 | 0.59 U | 0.5 U | 0.81 U | 5.2 | 4.2 U | 5.9 | 10.3 |
| ARSENIC | 0.86 U | 3.7 | 1.4 U | 7 | 7.8 | 10.3 | 3.1 | 3.5 | 6.8 |
| BARIUM | 14.9 | 54.6 | 31.9 | 33.3 | 53.1 | 114 | 40.1 | 39 | 66.1 |
| BERYLLIUM | 0.12 U | 0.34 U | 0.16 U | 0.3 U | 0.44 U | 0.68 U | 0.27 U | 0.23 U | 0.47 U |
| CADMIUM | 0.02 U | 0.12 U | 0.04 U | 0.02 U | 0.11 U | 0.22 U | 0.29 U | 0.26 U | 0.71 |
| CALCIUM | 292 | 929 | 1360 | 625 | 814 | 1580 | 2470 | 2880 | 6520 |
| CHROMIUM | 2.6 | 4.8 | 1.7 | 3.4 U | 9.9 | 16.8 | 3.6 | 4.3 | 10.5 |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **001** | **002** | **003** | **004** | **005** | **006** | **007** | **008** | **009** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-001 | CEF-P42-SS-002 | CEF-P42-SS-003 | CEF-P42-SS-004 | CEF-P42-SS-005 | CEF-P42-SS-006 | CEF-P42-SS-007 | CEF-P42-SS-007 | CEF-P42-SS-008 |
| nsample | CEF-P42-SS-001-01 | CEF-P42-SS-002-01 | CEF-P42-SS-003-01 | CEF-P42-SS-004-01 | CEF-P42-SS-005-01 | CEF-P42-SS-006-01 | CEF-P42-SS-007-01 | CEF-P42-SS-007-01-D | CEF-P42-SS-008-01 |
| sample | CEF-P42-SS-001 | CEF-P42-SS-002 | CEF-P42-SS-003 | CEF-P42-SS-004 | CEF-P42-SS-005 | CEF-P42-SS-006 | CEF-P42-SS-007 | CEF-P42-SS-DUP01 | CEF-P42-SS-008 |
| sample_dat | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_001** | **c_002** | **c_003** | **c_004** | **c_005** | **c_006** | **c_007** | **c_008** | **c_009** |
| COBALT | 0.57 | 1.1 | 0.36 U | 0.94 | 1.5 | 2 | 0.88 | 0.91 | 1.9 |
| COPPER | 3 | 8.4 | 4.6 | 10.7 | 14.5 | 16.6 | 9 | 9.1 | 18.4 |
| IRON | 10400 | 2560 | 758 | 3100 | 2780 | 4950 | 1770 | 2650 | 5580 |
| LEAD | 34.7 | 55.2 | 17.9 | 23.4 | 127 | 56.1 | 49.7 | 54.4 | 224 |
| MAGNESIUM | 52 | 127 | 78.8 | 115 | 148 | 217 | 350 | 400 | 1780 |
| MANGANESE | 29.2 | 16.1 | 6.5 | 5.1 | 12.1 | 27.2 | 74.1 | 103 | 353 |
| MERCURY | 0.04 U | 0.04 U | 0.04 U | 0.05 U | 0.05 U | 0.05 U | 0.04 U | 0.04 U | 0.04 U |
| NICKEL | 1.9 | 2.6 | 1.4 | 2.8 | 3.1 | 4.1 | 3.3 | 3.4 | 10.9 |
| POTASSIUM | 35.5 U | 81.4 | 33.5 U | 98.5 | 134 | 193 | 68.6 | 82.6 | 245 |
| SELENIUM | 0.6 | 0.44 | 0.32 U | 1.1 | 0.97 | 1.5 | 0.74 | 0.75 | 1.3 |
| SILVER | 1.8 | 0.55 U | 0.27 U | 0.53 U | 0.26 U | 0.47 U | 0.23 U | 0.31 U | 0.33 U |
| SODIUM | 363 | 373 | 328 | 374 | 401 | 417 | 323 | 347 | 454 |
| THALLIUM | 0.43 U | 0.43 U | 0.42 U | 0.44 U | 0.45 U | 0.46 U | 0.44 U | 0.43 U | 0.43 U |
| VANADIUM | 0.88 | 4.1 | 1.6 | 6.9 | 7.1 | 7.1 | 2.7 | 3 | 5.1 |
| ZINC | 22.9 | 60.1 | 34.4 | 10.4 | 168 | 92.1 | 131 | 154 | 494 |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 73 | 1870 | 487 | 187 | 343 | 293 | 110 | 122 | 221 |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **010** | **011** | **012** | **013** | **014** | **015** | **016** | **017** | **018** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-009 | CEF-P42-SS-010 | CEF-P42-SS-011 | CEF-P42-SS-012 | CEF-P42-SS-013 | CEF-P42-SS-014 | CEF-P42-SS-015 | CEF-P42-SS-015 | CEF-P42-SS-101 |
| nsample | CEF-P42-SS-009-01 | CEF-P42-SS-010-01 | CEF-P42-SS-011-01 | CEF-P42-SS-012-01 | CEF-P42-SS-013-01 | CEF-P42-SS-014-01 | CEF-P42-SS-015-01 | CEF-P42-SS-015-01-D | CEF-P42-SS-101-01 |
| sample | CEF-P42-SS-009 | CEF-P42-SS-010 | CEF-P42-SS-011 | CEF-P42-SS-012 | CEF-P42-SS-013 | CEF-P42-SS-014 | CEF-P42-SS-015 | CEF-P42-SS-DUP02 | CEF-P42-SS-101-01 |
| sample_dat | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 07/01/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_010** | **c_011** | **c_012** | **c_013** | **c_014** | **c_015** | **c_016** | **c_017** | **c_018** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 110 U | 100 U | 110 U | 100 U | 100 U | 100 U | 110 U | 100 U | 37 U |
| 2-METHYLNAPHTHALENE | 110 U | 632 | 110 U | 100 U | 100 U | 100 U | 221 | 214 | 640 |
| ACENAPHTHENE | 110 U | 499 | 110 U | 100 U | 100 U | 100 U | 110 U | 137 J | 1100 |
| ACENAPHTHYLENE | 110 U | 112 | 110 U | 100 U | 100 U | 100 U | 110 UJ | 100 U | 75 U |
| ANTHRACENE | 110 U | 100 U | 110 U | 100 U | 100 U | 100 U | 110 U | 100 U | 240 |
| BENZO(A)ANTHRACENE | 16 U | 354 | 16 U | 16 U | 16 U | 16 U | 16 UJ | 101 J | 390 |
| BENZO(A)PYRENE | 16 U | 740 | 16 U | 16 U | 143 | 16 U | 225 | 273 | 350 |
| BENZO(B)FLUORANTHENE | 16 U | 404 | 16 U | 16 U | 16 U | 16 U | 16 UJ | 116 J | 410 |
| BENZO(G,H,I)PERYLENE | 16 U | 455 | 16 U | 16 U | 16 U | 16 U | 16 UJ | 135 J | 270 |
| BENZO(K)FLUORANTHENE | 16 U | 160 | 16 U | 16 U | 16 U | 16 U | 16 UJ | 121 J | 210 |
| CHRYSENE | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 360 |
| DIBENZO(A,H)ANTHRACENE | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 35 |
| FLUORANTHENE | 16 U | 893 | 137 | 16 U | 2070 | 16 U | 178 J | 384 J | 1200 |
| FLUORENE | 110 U | 226 | 110 U | 100 U | 100 U | 100 U | 100 U | 100 U | 52 |
| INDENO(1,2,3-CD)PYRENE | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U | 150 |
| NAPHTHALENE | 110 U | 100 U | 110 U | 100 U | 100 U | 100 U | 111 J | 100 UJ | 220 |
| PHENANTHRENE | 110 U | 635 | 110 U | 100 U | 100 U | 100 U | 110 U | 100 U | 720 |
| PYRENE | 16 U | 961 | 16 U | 16 U | 337 | 16 U | 104 J | 218 J | 800 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | 7.3 UJ | 14 UJ | | | | | | | |
| 4,4'-DDE | 7.3 UJ | 14 UJ | | | | | | | |
| 4,4'-DDT | 7.3 UJ | 14 UJ | | | | | | | |
| ALDRIN | 3.7 U | 7.1 U | | | | | | | |
| ALPHA-BHC | 3.7 U | 7.1 U | | | | | | | |
| ALPHA-CHLORDANE | 7.3 U | 14 U | | | | | | | |
| BETA-BHC | 3.7 U | 7.1 U | | | | | | | |
| DELTA-BHC | 3.7 U | 7.1 U | | | | | | | |
| DIELDRIN | 3.7 UJ | 7.1 UJ | | | | | | | |
| ENDOSULFAN I | 3.7 UJ | 7.1 UJ | | | | | | | |
| ENDOSULFAN II | 7.3 UJ | 14 UJ | | | | | | | |
| ENDOSULFAN SULFATE | 7.3 UJ | 14 UJ | | | | | | | |
| ENDRIN | 7.3 U | 14 U | | | | | | | |
| ENDRIN ALDEHYDE | 7.3 U | 14 U | | | | | | | |
| ENDRIN KETONE | 7.3 UJ | 14 UJ | | | | | | | |
| GAMMA-BHC (LINDANE) | 3.7 U | 7.1 U | | | | | | | |
| GAMMA-CHLORDANE | 7.3 U | 14 U | | | | | | | |
| HEPTACHLOR | 3.7 U | 7.1 U | | | | | | | |
| HEPTACHLOR EPOXIDE | 3.7 U | 7.1 U | | | | | | | |
| METHOXYCHLOR | 15 UJ | 28 UJ | | | | | | | |
| TOXAPHENE | 370 U | 710 U | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | 3320 | 1900 | 766 | 654 | 1120 | 30.9 | 547 | 520 | |
| ANTIMONY | 1.9 U | 3.3 | 2.9 | 0.43 U | 2.8 | 0.34 U | 0.75 U | 0.75 U | 0.8 |
| ARSENIC | 7.6 | 3.7 | 0.75 U | 0.29 U | 1.1 U | 0.28 U | 0.58 U | 0.6 U | 0.47 U |
| BARIUM | 122 | 36.1 | 28.8 | 11.4 | 27.4 | 8.9 | 17.9 | 18.9 | 10.3 U |
| BERYLLIUM | 0.52 U | 0.19 U | 0.13 U | 0.06 U | 0.15 U | 0.04 U | 0.11 U | 0.15 U | |
| CADMIUM | 0.23 U | 0.11 U | 0.11 U | 0.02 U | 0.14 U | 0.02 U | 0.05 U | 0.03 U | |
| CALCIUM | 3300 | 6680 | 722 | 1410 | 1580 | 234 | 1390 | 1200 | |
| CHROMIUM | 5.3 | 5.4 | 2 | 0.98 U | 2.7 | 0.19 U | 0.98 U | 1 U | 0.46 U |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **010** | **011** | **012** | **013** | **014** | **015** | **016** | **017** | **018** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-009 | CEF-P42-SS-010 | CEF-P42-SS-011 | CEF-P42-SS-012 | CEF-P42-SS-013 | CEF-P42-SS-014 | CEF-P42-SS-015 | CEF-P42-SS-015 | CEF-P42-SS-101 |
| nsample | CEF-P42-SS-009-01 | CEF-P42-SS-010-01 | CEF-P42-SS-011-01 | CEF-P42-SS-012-01 | CEF-P42-SS-013-01 | CEF-P42-SS-014-01 | CEF-P42-SS-015-01 | CEF-P42-SS-015-01-D | CEF-P42-SS-101-01 |
| sample | CEF-P42-SS-009 | CEF-P42-SS-010 | CEF-P42-SS-011 | CEF-P42-SS-012 | CEF-P42-SS-013 | CEF-P42-SS-014 | CEF-P42-SS-015 | CEF-P42-SS-DUP02 | CEF-P42-SS-101-01 |
| sample_dat | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 04/26/99 | 07/01/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_010** | **c_011** | **c_012** | **c_013** | **c_014** | **c_015** | **c_016** | **c_017** | **c_018** |
| COBALT | 1.8 | 0.83 U | 0.28 U | 0.05 U | 0.45 U | 0.04 | 0.42 U | 0.38 U | |
| COPPER | 23.1 | 8 | 4.1 | 2.1 | 4.1 | 1.6 | 2.8 | 3.2 | |
| IRON | 4220 | 1580 | 633 | 259 | 1080 | 24.6 | 806 | 1300 | |
| LEAD | 67.6 | 105 | 39.8 | 10.1 | 44.5 | 0.51 | 12.6 | 14.2 | 6.9 J |
| MAGNESIUM | 403 | 234 | 160 | 48.4 | 216 | 14.4 U | 70 | 70.7 | |
| MANGANESE | 54.7 | 38.2 | 32.7 | 2.8 | 54.7 | 0.78 | 7.3 | 10.1 | |
| MERCURY | 0.05 U | 0.04 U | 0.04 U | 0.04 U | 0.04 U | 0.04 U | 0.04 U | 0.04 U | |
| NICKEL | 5.3 | 2.2 | 1.6 | 0.67 U | 1.8 | 0.09 U | 0.91 | 1.1 | |
| POTASSIUM | 230 | 91.3 | 41 U | 21 U | 65.1 | 15 U | 47.3 | 45.7 | |
| SELENIUM | 1.1 | 1 | 0.33 U | 0.4 | 0.55 | 0.32 U | 0.39 | 0.36 | |
| SILVER | 1.9 | 0.16 U | 0.45 U | 0.34 U | 0.19 U | 0.08 U | 0.31 U | 0.15 U | |
| SODIUM | 326 | 350 | 410 | 356 | 397 | 337 | 305 | 342 | |
| THALLIUM | 0.45 U | 0.44 U | 0.44 U | 0.44 U | 0.43 U | 0.43 U | 0.43 U | 0.44 U | |
| VANADIUM | 6.2 | 2.9 | 1.3 | 0.99 | 1.9 | 0.25 U | 1.5 | 1.3 | |
| ZINC | 105 | 142 | 51.1 | 6.6 | 94.5 | 1.7 U | 17.5 | 19.2 | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 79.3 | 100 | 153 | 44 U | 81.7 | 43 U | 78.3 | 86.2 | 94 U |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **019** | **020** | **021** | **022** | **023** | **024** | **025** | **026** | **027** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-102 | CEF-P42-SS-103 | CEF-P42-SS-103 | CEF-P42-SS-104 | CEF-P42-SS-105 | CEF-P42-SS-106 | CEF-P42-SS-107 | CEF-P42-SS-108 | CEF-P42-SS-109 |
| nsample | CEF-P42-SS-102-01 | CEF-P42-SS-103-01 | CEF-P42-SS-103-01-D | CEF-P42-SS-104-01 | CEF-P42-SS-105-01 | CEF-P42-SS-106-01 | CEF-P42-SS-107-01 | CEF-P42-SS-108-01 | CEF-P42-SS-109-01 |
| sample | CEF-P42-SS-102-01 | CEF-P42-SS-103-01 | CEF-P42-SS-DU03 | CEF-P42-SS-104-01 | CEF-P42-SS-105-01 | CEF-P42-SS-106-01 | CEF-P42-SS-107-01 | CEF-P42-SS-108-01 | CEF-P42-SS-109-01 |
| sample_dat | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_019** | **c_020** | **c_021** | **c_022** | **c_023** | **c_024** | **c_025** | **c_026** | **c_027** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 2500 | 3000 | 3300 | 19000 | 8300 | 24000 | 340 | 38 | 47 |
| 2-METHYLNAPHTHALENE | 8100 | 9100 | 9900 | 36000 | 21000 | 51000 | 1900 | 760 | 94 |
| ACENAPHTHENE | 3000 | 7900 J | 3600 J | 2400 | 1500 | 2400 | 1300 | 970 | 36 U |
| ACENAPHTHYLENE | 1200 | 1600 | 1900 | 6700 | 3100 | 8400 | 160 | 77 | 74 U |
| ANTHRACENE | 580 | 2300 J | 1200 J | 650 | 390 | 840 | 280 | 240 | 5.4 U |
| BENZO(A)ANTHRACENE | 1100 | 3000 J | 1400 J | 750 | 410 | 710 | 540 | 410 | 24 |
| BENZO(A)PYRENE | 1400 | 2800 J | 1400 J | 1100 | 460 | 650 | 530 | 430 | 29 |
| BENZO(B)FLUORANTHENE | 1600 | 3100 J | 1800 J | 1500 | 650 | 970 | 670 | 550 | 66 |
| BENZO(G,H,I)PERYLENE | 850 | 1700 J | 980 J | 350 | 160 | 350 | 320 | 340 | 37 |
| BENZO(K)FLUORANTHENE | 780 | 1600 J | 890 J | 2000 | 1100 | 1900 | 310 | 260 | 26 |
| CHRYSENE | 1200 | 2600 J | 1200 J | 770 | 250 | 370 | 570 | 410 | 27 |
| DIBENZO(A,H)ANTHRACENE | 35 | 64 | 48 | 48 | 9.3 U | 58 | 19 | 20 | 9 U |
| FLUORANTHENE | 5100 | 11000 J | 6100 J | 6900 | 3500 | 6900 | 1900 | 1200 | 78 |
| FLUORENE | 190 | 640 J | 260 J | 720 | 7.4 U | 7.7 U | 70 | 51 | 7.2 U |
| INDENO(1,2,3-CD)PYRENE | 740 | 1400 J | 770 J | 120 | 41 | 40 | 300 | 330 | 20 |
| NAPHTHALENE | 2800 | 2700 | 4000 | 15000 | 8900 | 28000 | 470 | 130 | 61 |
| PHENANTHRENE | 3700 | 7500 | 4600 | 9000 | 4000 | 11000 | 1100 | 730 | 25 |
| PYRENE | 2900 | 6800 J | 3700 J | 2200 | 830 | 1600 | 1200 | 810 | 45 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 0.35 U | 0.38 U | 0.18 U | 1 U | 0.41 U | 0.51 U | 1.3 U | 1.4 U | 0.5 |
| ARSENIC | 2.7 U | 2.2 U | 0.79 U | 4.4 J | 4.8 J | 12.2 J | 6 J | 3.3 J | 0.57 U |
| BARIUM | 63.8 | 32.8 | 17.4 | 44.6 | 30.9 | 76 | 26.7 | 68.4 | 18.9 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | 4.5 J | 7.5 J | 1.5 U | 3.3 J | 3.1 J | 9.3 J | 4.2 J | 5 J | 2 J |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **019** | **020** | **021** | **022** | **023** | **024** | **025** | **026** | **027** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-102 | CEF-P42-SS-103 | CEF-P42-SS-103 | CEF-P42-SS-104 | CEF-P42-SS-105 | CEF-P42-SS-106 | CEF-P42-SS-107 | CEF-P42-SS-108 | CEF-P42-SS-109 |
| nsample | CEF-P42-SS-102-01 | CEF-P42-SS-103-01 | CEF-P42-SS-103-01-D | CEF-P42-SS-104-01 | CEF-P42-SS-105-01 | CEF-P42-SS-106-01 | CEF-P42-SS-107-01 | CEF-P42-SS-108-01 | CEF-P42-SS-109-01 |
| sample | CEF-P42-SS-102-01 | CEF-P42-SS-103-01 | CEF-P42-SS-DU03 | CEF-P42-SS-104-01 | CEF-P42-SS-105-01 | CEF-P42-SS-106-01 | CEF-P42-SS-107-01 | CEF-P42-SS-108-01 | CEF-P42-SS-109-01 |
| sample_dat | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_019** | **c_020** | **c_021** | **c_022** | **c_023** | **c_024** | **c_025** | **c_026** | **c_027** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | 16.5 J |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 175 | 156 | 101 | 271 | 157 | 341 | 94 U | 96 U | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **028** | **029** | **030** | **031** | **032** | **033** | **034** | **035** | **036** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-110 | CEF-P42-SS-111 | CEF-P42-SS-112 | CEF-P42-SS-113 | CEF-P42-SS-114 | CEF-P42-SS-115 | CEF-P42-SS-116 | CEF-P42-SS-117 | CEF-P42-SS-002 |
| nsample | CEF-P42-SS-110-01 | CEF-P42-SS-111-01 | CEF-P42-SS-112-01 | CEF-P42-SS-113-01 | CEF-P42-SS-114-01 | CEF-P42-SS-115-01 | CEF-P42-SS-116-01 | CEF-P42-SS-117-01 | CEF-P42-SS-118-02 |
| sample | CEF-P42-SS-110-01 | CEF-P42-SS-111-01 | CEF-P42-SS-112-01 | CEF-P42-SS-113-01 | CEF-P42-SS-114-01 | CEF-P42-SS-115-01 | CEF-P42-SS-116-01 | CEF-P42-SS-117-01 | CEF-P42-SS-118-02 |
| sample_dat | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_028** | **c_029** | **c_030** | **c_031** | **c_032** | **c_033** | **c_034** | **c_035** | **c_036** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 64 | 100 | 420 | 220 | 50 U | 35 U | 36 U | 36 U | 51 |
| 2-METHYLNAPHTHALENE | 220 | 280 | 1700 | 790 | 200 | 35 U | 36 U | 36 U | 170 |
| ACENAPHTHENE | 210 | 130 | 1100 | 430 | 36 U | 35 U | 46 | 36 U | 36 U |
| ACENAPHTHYLENE | 75 U | 74 U | 260 | 390 | 74 U | 71 U | 72 U | 73 U | 73 U |
| ANTHRACENE | 34 | 9.9 | 150 | 28 | 5.4 U | 5.3 U | 5.4 U | 5.4 U | 5.4 U |
| BENZO(A)ANTHRACENE | 92 | 23 | 290 | 100 | 18 | 15 | 22 | 5.4 U | 10 |
| BENZO(A)PYRENE | 110 | 30 | 290 J | 130 J | 15 J | 14 J | 39 J | 5.4 UJ | 8.9 J |
| BENZO(B)FLUORANTHENE | 170 | 76 | 420 | 220 | 26 | 24 | 65 | 5.4 U | 25 |
| BENZO(G,H,I)PERYLENE | 90 | 22 | 230 | 130 | 17 | 16 | 49 | 7.3 U | 11 |
| BENZO(K)FLUORANTHENE | 79 | 30 | 180 | 88 | 17 | 11 | 28 | 5.4 U | 7.3 |
| CHRYSENE | 89 | 22 | 230 | 110 | 15 | 18 | 29 | 5.4 U | 6 |
| DIBENZO(A,H)ANTHRACENE | 11 | 9.2 U | 18 | 9.5 U | 9 U | 8.8 U | 8.9 U | 9 U | 9 U |
| FLUORANTHENE | 270 | 100 | 1200 | 480 | 79 | 40 | 57 | 73 U | 55 |
| FLUORENE | 7.5 U | 7.4 U | 42 | 16 | 7 U | 7.1 U | 7.2 U | 7.3 U | 7.3 U |
| INDENO(1,2,3-CD)PYRENE | 58 | 25 | 170 | 73 | 7.4 | 11 | 40 | 5.4 U | 5.4 U |
| NAPHTHALENE | 91 | 190 | 690 | 350 | 52 | 35 U | 36 U | 36 U | 160 |
| PHENANTHRENE | 120 | 75 | 810 | 260 | 43 | 15 | 16 | 5.4 U | 47 |
| PYRENE | 170 | 19 | 770 | 280 | 45 | 32 | 48 | 7.3 U | 24 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 2.8 | 0.79 U | 1.3 U | 0.27 U | | | 0.26 U | | |
| ARSENIC | 1.7 U | 1.5 U | 1.5 U | 3 J | | | 0.47 U | | |
| BARIUM | 29.2 | 29.7 | 44.4 | 31.3 | | | 8.6 U | | |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | 3.4 J | 5.4 J | 3.1 J | 2.3 J | | | 1 U | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **028** | **029** | **030** | **031** | **032** | **033** | **034** | **035** | **036** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-110 | CEF-P42-SS-111 | CEF-P42-SS-112 | CEF-P42-SS-113 | CEF-P42-SS-114 | CEF-P42-SS-115 | CEF-P42-SS-116 | CEF-P42-SS-117 | CEF-P42-SS-002 |
| nsample | CEF-P42-SS-110-01 | CEF-P42-SS-111-01 | CEF-P42-SS-112-01 | CEF-P42-SS-113-01 | CEF-P42-SS-114-01 | CEF-P42-SS-115-01 | CEF-P42-SS-116-01 | CEF-P42-SS-117-01 | CEF-P42-SS-118-02 |
| sample | CEF-P42-SS-110-01 | CEF-P42-SS-111-01 | CEF-P42-SS-112-01 | CEF-P42-SS-113-01 | CEF-P42-SS-114-01 | CEF-P42-SS-115-01 | CEF-P42-SS-116-01 | CEF-P42-SS-117-01 | CEF-P42-SS-118-02 |
| sample_dat | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 | 07/01/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_028** | **c_029** | **c_030** | **c_031** | **c_032** | **c_033** | **c_034** | **c_035** | **c_036** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | 51.3 J | | | | | | 6.3 J | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | | | | | | | 88 U | | 93 U |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **037** | **038** | **039** | **040** | **041** | **042** | **043** | **044** | **045** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-006 | CEF-P42-SS-006 | CEF-P42-SS-201 | CEF-P42-SS-202 | CEF-P42-SS-203 | CEF-P42-SS-204 | CEF-P42-SS-205 | CEF-P42-SS-206 | CEF-P42-SS-207 |
| nsample | CEF-P42-SS-119-02 | CEF-P42-SS-119-02-D | CEF-P42-SS-201-01 | CEF-P42-SS-202-01 | CEF-P42-SS-203-01 | CEF-P42-SS-204-01 | CEF-P42-SS-205-01 | CEF-P42-SS-206-01 | CEF-P42-SS-207-01 |
| sample | CEF-P42-SS-119-02 | CEF-P42-SS-DU04 | CEF-P42-SS-201-01 | CEF-P42-SS-202-01 | CEF-P42-SS-203-01 | CEF-P42-SS-204-01 | CEF-P42-SS-205-01 | CEF-P42-SS-206-01 | CEF-P42-SS-207-01 |
| sample_dat | 07/01/99 | 07/01/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 |
| top_depth | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_037** | **c_038** | **c_039** | **c_040** | **c_041** | **c_042** | **c_043** | **c_044** | **c_045** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 2700 | 2800 | 2100 J | 640 J | 3000 J | 5500 | 11000 J | 26000 J | 27000 J |
| 2-METHYLNAPHTHALENE | 8100 | 7200 | 23000 J | 3000 J | 10000 J | 21000 | 44000 J | 64000 J | 61000 J |
| ACENAPHTHENE | 620 | 520 | 31000 J | 1700 J | 1800 J | 4700 | 28000 J | 9400 J | 6800 J |
| ACENAPHTHYLENE | 960 | 880 | 5500 J | 570 J | 2200 J | 3900 | 6900 J | 15400 UJ | 8100 J |
| ANTHRACENE | 120 | 110 | 9500 J | 390 J | 350 J | 650 | 9500 J | 1200 J | 1300 J |
| BENZO(A)ANTHRACENE | 120 | 100 | 13000 J | 600 J | 180 J | 1900 | 12000 J | 1500 J | 1400 J |
| BENZO(A)PYRENE | 89 J | 66 J | 12000 J | 790 J | 960 J | 1500 | 11000 J | 1800 J | 1800 J |
| BENZO(B)FLUORANTHENE | 140 | 98 | 12000 J | 820 J | 1000 J | 2000 | 12000 J | 2600 J | 2100 J |
| BENZO(G,H,I)PERYLENE | 47 | 54 | 8200 J | 480 J | 520 J | 940 | 6000 J | 1500 J | 690 J |
| BENZO(K)FLUORANTHENE | 41 | 34 | 8400 J | 400 J | 900 J | 1100 | 5900 J | 1080 UJ | 2800 J |
| CHRYSENE | 68 | 54 | 15000 J | 750 J | 880 J | 2000 | 12000 J | 1300 J | 1100 J |
| DIBENZO(A,H)ANTHRACENE | 9.2 U | 9.3 U | 170 J | 9.3 UJ | 35 J | 240 | 320 J | 1800 UJ | 190 J |
| FLUORANTHENE | 860 | 910 | 45000 J | 2500 J | 3300 J | 15000 | 45000 J | 12000 J | 24000 J |
| FLUORENE | 73 | 58 | 2700 J | 82 J | 58 J | 760 | 3700 J | 1080 UJ | 1700 J |
| INDENO(1,2,3-CD)PYRENE | 5.6 U | 5.6 U | 7000 J | 400 J | 370 J | 600 | 5800 J | 180 J | 220 J |
| NAPHTHALENE | 2800 | 2500 | 2900 J | 990 J | 4300 J | 19000 | 21000 J | 32000 J | 32000 J |
| PHENANTHRENE | 1400 | 1200 | 32000 J | 1700 J | 3300 J | 9400 | 36000 J | 14000 J | 15000 J |
| PYRENE | 150 | 130 | 27000 J | 1200 J | 1800 J | 3000 | 27000 J | 3400 J | 3900 J |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 1 U | 7 J | 0.64 U | 0.32 U | 0.77 U | 0.76 U | 0.89 U | 1.1 U | 1.9 U |
| ARSENIC | 4.8 J | 19.4 J | 0.83 U | 0.54 U | 10.8 | 7.9 | 7.2 | 8.7 | 15.7 |
| BARIUM | 12.1 | 31.4 | 36.5 | 17.2 | 211 | 49.8 | 62.4 | 57.9 | 25.3 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | 17.5 J | 45.8 J | 3.8 U | 1.9 U | 5.6 | 4 U | 4.8 U | 5.1 U | 3 U |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **037** | **038** | **039** | **040** | **041** | **042** | **043** | **044** | **045** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-006 | CEF-P42-SS-006 | CEF-P42-SS-201 | CEF-P42-SS-202 | CEF-P42-SS-203 | CEF-P42-SS-204 | CEF-P42-SS-205 | CEF-P42-SS-206 | CEF-P42-SS-207 |
| nsample | CEF-P42-SS-119-02 | CEF-P42-SS-119-02-D | CEF-P42-SS-201-01 | CEF-P42-SS-202-01 | CEF-P42-SS-203-01 | CEF-P42-SS-204-01 | CEF-P42-SS-205-01 | CEF-P42-SS-206-01 | CEF-P42-SS-207-01 |
| sample | CEF-P42-SS-119-02 | CEF-P42-SS-DU04 | CEF-P42-SS-201-01 | CEF-P42-SS-202-01 | CEF-P42-SS-203-01 | CEF-P42-SS-204-01 | CEF-P42-SS-205-01 | CEF-P42-SS-206-01 | CEF-P42-SS-207-01 |
| sample_dat | 07/01/99 | 07/01/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 |
| top_depth | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_037** | **c_038** | **c_039** | **c_040** | **c_041** | **c_042** | **c_043** | **c_044** | **c_045** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 94 U | 94 U | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **046** | **047** | **048** | **049** | **050** | **051** | **052** | **053** | **054** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-208 | CEF-P42-SS-209 | CEF-P42-SS-210 | CEF-P42-SS-211 | CEF-P42-SS-212 | CEF-P42-SS-213 | CEF-P42-SS-213 | CEF-P42-SS-301 | CEF-P42-SS-301A |
| nsample | CEF-P42-SS-208-01 | CEF-P42-SS-209-01 | CEF-P42-SS-210-01 | CEF-P42-SS-211-01 | CEF-P42-SS-212-01 | CEF-P42-SS-213-01 | CEF-P42-SS-213-01-D | CEF-P42-SS-301-01 | CEF-P42-SS-301A-01 |
| sample | CEF-P42-SS-208-01 | CEF-P42-SS-209-01 | CEF-P42-SS-210-01 | CEF-P42-SS-211-01 | CEF-P42-SS-212-01 | CEF-P42-SS-213-01 | CEF-P42-SS-DU06 | CEF-P42-SS-301-01 | CEF-P42-SS-301A-01 |
| sample_dat | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 10/11/99 | 11/16/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_046** | **c_047** | **c_048** | **c_049** | **c_050** | **c_051** | **c_052** | **c_053** | **c_054** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 1000 J | 180 J | 290 J | | | 1100 J | 2100 J | 76 U | 73 UJ |
| 2-METHYLNAPHTHALENE | 4200 J | 740 J | 1600 J | | | 5400 J | 23000 J | 81.5 | 73 UJ |
| ACENAPHTHENE | 3400 J | 640 J | 1900 J | | | 7100 J | 35000 J | 265 | 73 UJ |
| ACENAPHTHYLENE | 640 J | 120 J | 150 J | | | 860 J | 3100 J | 97.8 | 73 UJ |
| ANTHRACENE | 570 J | 99 J | 410 J | | | 1600 J | 8400 J | 76 U | 73 UJ |
| BENZO(A)ANTHRACENE | 1700 J | 390 J | 870 J | | | 3300 J | 17000 J | 106 | 17.7 J |
| BENZO(A)PYRENE | 2500 J | 890 J | 940 J | | | 3300 J | 11000 J | 168 | 11 UJ |
| BENZO(B)FLUORANTHENE | 1200 J | 1500 J | 980 J | | | 3700 J | 13000 J | 198 | 49.3 J |
| BENZO(G,H,I)PERYLENE | 2000 J | 710 J | 580 J | | | 2500 J | 6100 J | 95 | 26.5 J |
| BENZO(K)FLUORANTHENE | 1200 J | 710 J | 480 J | | | 1800 J | 7100 J | 70.1 | 27.8 J |
| CHRYSENE | 1600 J | 510 J | 920 J | | | 3000 J | 15000 J | 155 | 23.9 J |
| DIBENZO(A,H)ANTHRACENE | 170 J | 13 J | 29 J | | | 110 J | 380 J | 17.4 | 11 UJ |
| FLUORANTHENE | 3900 J | 920 J | 2400 J | | | 9800 J | 50000 J | 485 | 416 J |
| FLUORENE | 71 J | 18 J | 87 J | | | 400 J | 1700 J | 76 U | 73 UJ |
| INDENO(1,2,3-CD)PYRENE | 1600 J | 700 J | 460 J | | | 2100 J | 5300 J | 68.7 | 11 UJ |
| NAPHTHALENE | 1000 J | 240 J | 290 J | | | 690 J | 1100 J | 86 | 73 UJ |
| PHENANTHRENE | 2100 J | 320 J | 1400 J | | | 5700 J | 27000 J | 76 U | 134 J |
| PYRENE | 2500 J | 1100 J | 1500 J | | | 6300 J | 33000 J | 208 | 48.6 J |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | 180 UJ | 180 UJ | | |
| 4,4'-DDE | | | | | | 76 J | 180 UJ | | |
| 4,4'-DDT | | | | | | 60 J | 180 UJ | | |
| ALDRIN | | | | | | 89 UJ | 90 UJ | | |
| ALPHA-BHC | | | | | | 89 UJ | 90 UJ | | |
| ALPHA-CHLORDANE | | | | | | 180 UJ | 180 UJ | | |
| BETA-BHC | | | | | | 89 UJ | 90 UJ | | |
| DELTA-BHC | | | | | | 89 UJ | 90 UJ | | |
| DIELDRIN | | | | | | 89 UJ | 90 UJ | | |
| ENDOSULFAN I | | | | | | 89 UJ | 90 UJ | | |
| ENDOSULFAN II | | | | | | 180 UJ | 180 UJ | | |
| ENDOSULFAN SULFATE | | | | | | 180 UJ | 180 UJ | | |
| ENDRIN | | | | | | 180 UJ | 180 UJ | | |
| ENDRIN ALDEHYDE | | | | | | 180 UJ | 180 UJ | | |
| ENDRIN KETONE | | | | | | 180 UJ | 180 UJ | | |
| GAMMA-BHC (LINDANE) | | | | | | 89 UJ | 90 UJ | | |
| GAMMA-CHLORDANE | | | | | | 180 UJ | 180 UJ | | |
| HEPTACHLOR | | | | | | 89 UJ | 90 UJ | | |
| HEPTACHLOR EPOXIDE | | | | | | 89 UJ | 90 UJ | | |
| METHOXYCHLOR | | | | | | 360 UJ | 360 UJ | | |
| TOXAPHENE | | | | | | 8900 UJ | 9000 UJ | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 1.1 U | 6.4 | 0.79 U | 3 | 1.8 U | 49 | 61.1 | | 0.25 U |
| ARSENIC | 9.8 | 5.1 | 2 U | 1.3 U | 0.46 U | 13.6 | 20.2 | 0.57 U | 0.86 |
| BARIUM | 21.9 | 50.7 | 25.1 | 49.9 | 27.3 | 291 | 442 | 19.7 | 12.8 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | 3.5 U | 7.3 | 3.5 U | 3.7 U | 1.7 U | 26.9 | 37 | 257 | 3 |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **046** | **047** | **048** | **049** | **050** | **051** | **052** | **053** | **054** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-208 | CEF-P42-SS-209 | CEF-P42-SS-210 | CEF-P42-SS-211 | CEF-P42-SS-212 | CEF-P42-SS-213 | CEF-P42-SS-213 | CEF-P42-SS-301 | CEF-P42-SS-301A |
| nsample | CEF-P42-SS-208-01 | CEF-P42-SS-209-01 | CEF-P42-SS-210-01 | CEF-P42-SS-211-01 | CEF-P42-SS-212-01 | CEF-P42-SS-213-01 | CEF-P42-SS-213-01-D | CEF-P42-SS-301-01 | CEF-P42-SS-301A-01 |
| sample | CEF-P42-SS-208-01 | CEF-P42-SS-209-01 | CEF-P42-SS-210-01 | CEF-P42-SS-211-01 | CEF-P42-SS-212-01 | CEF-P42-SS-213-01 | CEF-P42-SS-DU06 | CEF-P42-SS-301-01 | CEF-P42-SS-301A-01 |
| sample_dat | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 09/07/99 | 10/11/99 | 11/16/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_046** | **c_047** | **c_048** | **c_049** | **c_050** | **c_051** | **c_052** | **c_053** | **c_054** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | 250 | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | | | | | | 709 J | 625 J | 96 U | 92 U |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **055** | **056** | **057** | **058** | **059** | **060** | **061** | **062** | **063** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-302 | CEF-P42-SS-302A | CEF-P42-SS-303 | CEF-P42-SS-303 | CEF-P42-SS-303A | CEF-P42-SS-304 | CEF-P42-SS-304A | CEF-P42-SS-401 | CEF-P42-SS-401 |
| nsample | CEF-P42-SS-302-01 | CEF-P42-SS-302A-01 | CEF-P42-SS-303-01 | CEF-P42-SS-303-01-D | CEF-P42-SS-303A-01 | CEF-P42-SS-304-01 | CEF-P42-SS-304A-01 | CEF-P42-SS-401-01 | CEF-P42-SS-401-01-D |
| sample | CEF-P42-SS-302-01 | CEF-P42-SS-302A-01 | CEF-P42-SS-303-01 | CEF-P42-SS-DU07 | CEF-P42-SS-303A-01 | CEF-P42-SS-304-01 | CEF-P42-SS-304A-01 | CEF-P42-SS-401-01 | CEF-P42-SS-DU09 |
| sample_dat | 10/11/99 | 11/16/99 | 10/11/99 | 10/11/99 | 11/16/99 | 10/11/99 | 11/16/99 | 11/19/99 | 11/19/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_055** | **c_056** | **c_057** | **c_058** | **c_059** | **c_060** | **c_061** | **c_062** | **c_063** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 76 U | 70 UJ | 73 U | 74 U | 72 U | 131 | 72 U | 199 J | 110 J |
| 2-METHYLNAPHTHALENE | 148 | 686 J | 106 | 74 | 191 | 84.6 | 72 U | 71 UJ | 107 J |
| ACENAPHTHENE | 76 U | 70 UJ | 103 J | 74 U | 630 | 450 | 72 U | 142 | 123 |
| ACENAPHTHYLENE | 76 U | 70 UJ | 73 U | 74 U | 72 U | 722 | 72 U | 71 U | 73 U |
| ANTHRACENE | 76 U | 70 UJ | 73 U | 74 U | 72 U | 72 U | 72 U | 86.3 J | 73 UJ |
| BENZO(A)ANTHRACENE | 11 U | 10 UJ | 66 J | 22.4 J | 95 | 26 | 11 U | 290 | 192 |
| BENZO(A)PYRENE | 11 U | 10 UJ | 60.2 J | 12.8 J | 173 | 15.3 | 11 U | 194 | 134 |
| BENZO(B)FLUORANTHENE | 11 U | 10 UJ | 57.9 J | 16.9 J | 178 | 80 | 14.5 | 283 | 228 |
| BENZO(G,H,I)PERYLENE | 21 | 10 UJ | 33.7 J | 11 U | 81.8 | 16.6 | 11 U | 144 | 125 |
| BENZO(K)FLUORANTHENE | 39.1 | 10 UJ | 46.4 J | 21.5 J | 33.8 | 49.4 | 77 | 182 J | 80 J |
| CHRYSENE | 48.2 | 10 UJ | 78.5 J | 22.8 J | 100 | 17 | 11 U | 336 | 261 |
| DIBENZO(A,H)ANTHRACENE | 11 U | 10 UJ | 11 U | 11 U | 11 U | 11 U | 11 U | 11 U | 11 U |
| FLUORANTHENE | 217 | 10 UJ | 268 J | 87.4 J | 566 | 117 | 118 | 1120 J | 667 J |
| FLUORENE | 76 U | 70 UJ | 73 U | 74 U | 72 U | 155 | 72 U | 71 U | 73 U |
| INDENO(1,2,3-CD)PYRENE | 11 U | 10 UJ | 40.6 J | 11 U | 11 U | 15.9 | 11 U | 190 | 144 |
| NAPHTHALENE | 76 U | 70 UJ | 73 U | 74 U | 72 U | 199 | 72 U | 71 U | 73 U |
| PHENANTHRENE | 76 U | 70 UJ | 87 J | 74 U | 72 U | 192 | 2260 | 466 J | 211 J |
| PYRENE | 14.3 | 10 UJ | 167 J | 28 J | 131 | 48 | 12.2 | 578 | 419 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | | 0.28 U | | | 0.26 U | | 0.26 U | 2.7 | 2.8 |
| ARSENIC | 0.69 U | 0.66 | 0.63 U | 0.59 U | 0.47 | 0.49 U | 0.38 U | 1.7 U | 2.1 U |
| BARIUM | 9.3 | 8.8 | 2.8 | 2.2 | 7.3 | 2 | 5.3 | 29.8 | 39.8 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | 2.6 | 1.7 | 4 | 2.8 | 1.5 | 0.98 U | 0.57 | 3.3 J | 4 J |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **055** | **056** | **057** | **058** | **059** | **060** | **061** | **062** | **063** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-302 | CEF-P42-SS-302A | CEF-P42-SS-303 | CEF-P42-SS-303 | CEF-P42-SS-303A | CEF-P42-SS-304 | CEF-P42-SS-304A | CEF-P42-SS-401 | CEF-P42-SS-401 |
| nsample | CEF-P42-SS-302-01 | CEF-P42-SS-302A-01 | CEF-P42-SS-303-01 | CEF-P42-SS-303-01-D | CEF-P42-SS-303A-01 | CEF-P42-SS-304-01 | CEF-P42-SS-304A-01 | CEF-P42-SS-401-01 | CEF-P42-SS-401-01-D |
| sample | CEF-P42-SS-302-01 | CEF-P42-SS-302A-01 | CEF-P42-SS-303-01 | CEF-P42-SS-DU07 | CEF-P42-SS-303A-01 | CEF-P42-SS-304-01 | CEF-P42-SS-304A-01 | CEF-P42-SS-401-01 | CEF-P42-SS-DU09 |
| sample_dat | 10/11/99 | 11/16/99 | 10/11/99 | 10/11/99 | 11/16/99 | 10/11/99 | 11/16/99 | 11/19/99 | 11/19/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_055** | **c_056** | **c_057** | **c_058** | **c_059** | **c_060** | **c_061** | **c_062** | **c_063** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | 637 | | 8.4 | 9.4 | | 5.9 | | 39.3 J | 52.2 J |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 94 U | 92.4 | 93 U | 93 U | 101 | 91 U | 88.6 J | 90 U | 92 U |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **064** | **065** | **066** | **067** | **068** | **069** | **070** | **071** | **072** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-402 | CEF-P42-SS-408 | CEF-P42-SS-408 | CEF-P42-SS-409 | CEF-P42-SS-410 | CEF-P42-SS-411 | CEF-P42-SS-412 | CEF-P42-SS-413 | CEF-P42-SS-414 |
| nsample | CEF-P42-SS-402-01 | CEF-P42-SS-408-01 | CEF-P42-SS-408-01-D | CEF-P42-SS-409-01 | CEF-P42-SS-410-01 | CEF-P42-SS-411-01 | CEF-P42-SS-412-01 | CEF-P42-SS-413-01 | CEF-P42-SS-414-01 |
| sample | CEF-P42-SS-402-01 | CEF-P42-SS-408-01 | CEF-P42-SS-DU08 | CEF-P42-SS-409-01 | CEF-P42-SS-410-01 | CEF-P42-SS-411-01 | CEF-P42-SS-412-01 | CEF-P42-SS-413-01 | CEF-P42-SS-414-01 |
| sample_dat | 11/19/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_064** | **c_065** | **c_066** | **c_067** | **c_068** | **c_069** | **c_070** | **c_071** | **c_072** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 53900 | 942 J | 72 UJ | 72 U | 123 | 70 U | 1990 | 131 | 1600 |
| 2-METHYLNAPHTHALENE | 57800 | 704 J | 279 J | 72 U | 85.3 | 70 U | 2150 | 276 | 622 |
| ACENAPHTHENE | 62600 | 830 J | 72 UJ | 72 U | 72 U | 70 U | 76 U | 70 U | 2420 |
| ACENAPHTHYLENE | 10900 | 72 U | 72 U | 72 U | 72 U | 70 U | 76 U | 70 U | 1860 |
| ANTHRACENE | 43700 | 625 J | 72 UJ | 72 U | 72 U | 70 U | 76 U | 70 U | 698 |
| BENZO(A)ANTHRACENE | 69200 | 1110 J | 23.2 J | 55.9 | 174 | 10 U | 148 | 19.7 | 3380 |
| BENZO(A)PYRENE | 6050 | 2940 J | 18.9 J | 11 U | 105 | 10 U | 30 | 12.6 | 3810 |
| BENZO(B)FLUORANTHENE | 17200 | 746 J | 18.1 J | 46.9 | 175 | 10 U | 327 | 34.2 | 6790 |
| BENZO(G,H,I)PERYLENE | 24900 | 210 J | 18.3 J | 11 U | 97.2 | 10 U | 92.6 | 10 U | 2880 |
| BENZO(K)FLUORANTHENE | 110 U | 398 J | 15 J | 34.2 | 82.4 | 10 U | 88.2 | 10 U | 2700 |
| CHRYSENE | 3810 | 1010 J | 100 J | 69.2 | 189 | 10 U | 195 | 26.4 | 2820 |
| DIBENZO(A,H)ANTHRACENE | 26400 | 197 J | 11 UJ | 11 U | 11 U | 10 U | 34.6 | 10 U | 306 |
| FLUORANTHENE | 110 U | 3280 J | 111 J | 249 | 552 | 10 U | 1510 | 228 | 8490 |
| FLUORENE | 33200 | 228 J | 72 UJ | 72 U | 72 U | 70 U | 76 U | 70 U | 130 |
| INDENO(1,2,3-CD)PYRENE | 18000 | 11 U | 11 U | 11 U | 108 | 10 U | 277 | 10 U | 3330 |
| NAPHTHALENE | 47800 | 111 J | 72 J | 72 U | 72 U | 70 U | 637 | 92.4 | 1160 |
| PHENANTHRENE | 82200 | 1760 J | 72 U | 72 U | 253 | 70 U | 720 | 152 | 2280 |
| PYRENE | 129000 | 1880 J | 87.2 | 110 | 300 | 10 U | 184 | 28 | 5600 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 0.94 | 0.98 | 0.62 | 0.25 U | 0.28 U | 0.25 U | 0.34 | 0.25 U | 5.3 |
| ARSENIC | 5.6 | 0.66 U | 0.37 U | 0.36 U | 0.61 U | 0.36 U | 5.9 | 0.36 U | 10.6 |
| BARIUM | 70.8 | 18.6 | 11.7 U | 11.7 U | 8.1 U | 4.5 U | 45.8 | 6 U | 82.3 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | 8.2 J | 18.4 J | 3.5 J | 0.72 U | 1 U | 0.44 U | 3 J | 0.88 U | 7.4 J |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **064** | **065** | **066** | **067** | **068** | **069** | **070** | **071** | **072** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-402 | CEF-P42-SS-408 | CEF-P42-SS-408 | CEF-P42-SS-409 | CEF-P42-SS-410 | CEF-P42-SS-411 | CEF-P42-SS-412 | CEF-P42-SS-413 | CEF-P42-SS-414 |
| nsample | CEF-P42-SS-402-01 | CEF-P42-SS-408-01 | CEF-P42-SS-408-01-D | CEF-P42-SS-409-01 | CEF-P42-SS-410-01 | CEF-P42-SS-411-01 | CEF-P42-SS-412-01 | CEF-P42-SS-413-01 | CEF-P42-SS-414-01 |
| sample | CEF-P42-SS-402-01 | CEF-P42-SS-408-01 | CEF-P42-SS-DU08 | CEF-P42-SS-409-01 | CEF-P42-SS-410-01 | CEF-P42-SS-411-01 | CEF-P42-SS-412-01 | CEF-P42-SS-413-01 | CEF-P42-SS-414-01 |
| sample_dat | 11/19/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_064** | **c_065** | **c_066** | **c_067** | **c_068** | **c_069** | **c_070** | **c_071** | **c_072** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | 75.4 J | 137 J | 27 J | 3.5 J | 6.5 J | 1.9 J | 11.8 J | 1.5 J | 93.7 J |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 35500 | 140 | 184 | 90 U | 90 U | 88 U | 279 | 88 U | 248 |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **073** | **074** | **075** | **076** | **077** | **078** | **079** | **080** | **081** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-415 | CEF-P42-SS-416 | CEF-P42-SS-417 | CEF-P42-SS-418 | CEF-P42-SS-419 | CEF-P42-SS-420 | CEF-P42-SS-421 | CEF-P42-SS-502 | CEF-P42-SS-502 |
| nsample | CEF-P42-SS-415-01 | CEF-P42-SS-416-01 | CEF-P42-SS-417-01 | CEF-P42-SS-418-01 | CEF-P42-SS-419-01 | CEF-P42-SS-420-01 | CEF-P42-SS-421-01 | CEF-P42-SS-502-01 | CEF-P42-SS-502-01-D |
| sample | CEF-P42-SS-415-01 | CEF-P42-SS-416-01 | CEF-P42-SS-417-01 | CEF-P42-SS-418-01 | CEF-P42-SS-419-01 | CEF-P42-SS-420-01 | CEF-P42-SS-421-01 | CEF-P42-SS-502-01 | CEF-P42-SS-DU01 |
| sample_dat | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/19/99 | 11/19/99 | 01/20/00 | 01/20/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_073** | **c_074** | **c_075** | **c_076** | **c_077** | **c_078** | **c_079** | **c_080** | **c_081** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 174 | 74 U | 78 U | 69 U | 70 U | 85 U | 88 U | 74 U | 73 U |
| 2-METHYLNAPHTHALENE | 311 | 74 U | 78 U | 69 U | 79.9 | 85 U | 88 U | 171 J | 380 J |
| ACENAPHTHENE | 130 | 74 U | 78 U | 69 U | 70 U | 85 U | 88 U | 75.9 J | 261 J |
| ACENAPHTHYLENE | 70 U | 74 U | 78 U | 69 U | 70 U | 85 U | 88 U | 261 J | 73 UJ |
| ANTHRACENE | 70 U | 74 U | 78 U | 69 U | 70 U | 85 U | 88 U | 74 U | 73 U |
| BENZO(A)ANTHRACENE | 348 | 41.3 | 109 | 10 U | 24.6 | 29.4 | 13 U | 223 J | 392 J |
| BENZO(A)PYRENE | 265 | 32.4 | 60.6 | 10 U | 20.1 | 13 U | 13 U | 97.4 J | 347 J |
| BENZO(B)FLUORANTHENE | 469 | 105 | 134 | 10 U | 64.4 | 66.2 | 13 U | 225 J | 454 J |
| BENZO(G,H,I)PERYLENE | 226 | 29 | 45.5 | 10 U | 17.2 | 13 U | 13 U | 89.3 J | 246 J |
| BENZO(K)FLUORANTHENE | 151 | 31.4 | 56.8 | 10 U | 16.1 | 16.5 | 13 U | 87.7 J | 202 J |
| CHRYSENE | 404 | 11 U | 119 | 10 U | 39 | 35 | 13 U | 305 | 476 |
| DIBENZO(A,H)ANTHRACENE | 17.6 | 11 U | 12 U | 10 U | 10 U | 13 U | 13 U | 11 U | 11 U |
| FLUORANTHENE | 1080 | 259 | 373 | 10 U | 120 | 201 | 13 U | 871 J | 1450 J |
| FLUORENE | 70 U | 74 U | 78 U | 69 U | 70 U | 85 U | 88 U | 74 U | 73 U |
| INDENO(1,2,3-CD)PYRENE | 271 | 11 U | 55.1 | 10 U | 25.2 | 13 U | 13 U | 128 J | 238 J |
| NAPHTHALENE | 179 | 74 U | 78 U | 69 U | 70 U | 85 U | 88 U | 74 U | 73 U |
| PHENANTHRENE | 492 | 74 U | 187 | 69 U | 70 U | 85 U | 88 U | 319 | 268 |
| PYRENE | 611 | 135 | 205 | 10 U | 60.2 | 53.2 | 13 U | 486 | 754 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 1.6 | 0.27 U | 4.3 | 0.26 U | 0.39 | 0.4 | 0.32 U | 1.2 U | 0.6 U |
| ARSENIC | 3 | 0.68 U | 2 U | 0.38 U | 0.54 U | 0.48 U | 0.46 U | 1.7 | 1.6 |
| BARIUM | 40.1 | 14.6 | 24.3 | 6.1 U | 15 | 12.8 U | 6.7 U | 35 | 8.2 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | 3.8 J | 1.1 J | 5.2 J | 0.28 U | 1.4 J | 1 U | 0.25 U | 5.7 J | 3 J |

PSC 42
Summary of Positive Detections - Soil Data

| **order** | **073** | **074** | **075** | **076** | **077** | **078** | **079** | **080** | **081** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-415 | CEF-P42-SS-416 | CEF-P42-SS-417 | CEF-P42-SS-418 | CEF-P42-SS-419 | CEF-P42-SS-420 | CEF-P42-SS-421 | CEF-P42-SS-502 | CEF-P42-SS-502 |
| nsample | CEF-P42-SS-415-01 | CEF-P42-SS-416-01 | CEF-P42-SS-417-01 | CEF-P42-SS-418-01 | CEF-P42-SS-419-01 | CEF-P42-SS-420-01 | CEF-P42-SS-421-01 | CEF-P42-SS-502-01 | CEF-P42-SS-502-01-D |
| sample | CEF-P42-SS-415-01 | CEF-P42-SS-416-01 | CEF-P42-SS-417-01 | CEF-P42-SS-418-01 | CEF-P42-SS-419-01 | CEF-P42-SS-420-01 | CEF-P42-SS-421-01 | CEF-P42-SS-502-01 | CEF-P42-SS-DU01 |
| sample_dat | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/18/99 | 11/19/99 | 11/19/99 | 01/20/00 | 01/20/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_073** | **c_074** | **c_075** | **c_076** | **c_077** | **c_078** | **c_079** | **c_080** | **c_081** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | 46.7 J | 18.1 J | 37.2 J | 3.4 J | 6.7 J | 7 J | 2.1 J | 173 J | 54.4 J |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 86.6 J | 77.8 J | 98 U | 88 U | 89 U | 110 U | 110 U | 260 | 41.2 |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **082** | **083** | **084** | **085** | **086** | **087** | **088** | **089** | **090** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-503 | CEF-P42-SS-504 | CEF-P42-SS-505 | CEF-P42-SS-506 | CEF-P42-SS-507 | CEF-P42-SS-508 | CEF-P42-SS-601 | CEF-P42-SS-601 | CEF-P42-SS-602 |
| nsample | CEF-P42-SS-503-01 | CEF-P42-SS-504-01 | CEF-P42-SS-505-01 | CEF-P42-SS-506-01 | CEF-P42-SS-507-01 | CEF-P42-SS-508-01 | CEF-P42-SS-601-01 | CEF-P42-SS-601-01-D | CEF-P42-SS-602-01 |
| sample | CEF-P42-SS-503-01 | CEF-P42-SS-504-01 | CEF-P42-SS-505-01 | CEF-P42-SS-506-01 | CEF-P42-SS-507-01 | CEF-P42-SS-508-01 | CEF-P42-SS-601-01 | CEF-P42-SS-DU13 | CEF-P42-SS-602-01 |
| sample_dat | 01/20/00 | 01/20/00 | 01/20/00 | 01/20/00 | 01/20/00 | 01/20/00 | 03/17/00 | 03/17/00 | 03/17/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_082** | **c_083** | **c_084** | **c_085** | **c_086** | **c_087** | **c_088** | **c_089** | **c_090** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | | 74 U | 74 U | | 74 U | 71 U | 380 U | 350 U | 410 U |
| 2-METHYLNAPHTHALENE | | 74 U | 156 | | 74 U | 259 | 380 U | 350 U | 410 U |
| ACENAPHTHENE | | 74 U | 74 U | | 74 U | 115 | 380 U | 350 U | 410 U |
| ACENAPHTHYLENE | | 74 U | 104 | | 74 U | 71 U | 770 U | 700 U | 820 U |
| ANTHRACENE | | 74 U | 74 U | | 74 U | 71 U | 380 U | 350 U | 410 U |
| BENZO(A)ANTHRACENE | | 11 U | 11.1 | | 26 | 246 | 77 U | 70 U | 82 U |
| BENZO(A)PYRENE | | 11 U | 11 U | | 11 U | 164 | 77 U | 70 U | 82 U |
| BENZO(B)FLUORANTHENE | | 11 U | 11 U | | 15.8 | 210 | 77 U | 70 U | 82 U |
| BENZO(G,H,I)PERYLENE | | 11 U | 11 U | | 11.5 | 99.9 | 77 U | 70 U | 82 U |
| BENZO(K)FLUORANTHENE | | 11 U | 11 U | | 32.6 | 95.6 | 77 U | 70 U | 82 U |
| CHRYSENE | | 11 U | 62.2 | | 35.4 | 266 | 77 U | 70 U | 82 U |
| DIBENZO(A,H)ANTHRACENE | | 11 U | 11 U | | 11 U | 11 U | 77 U | 70 U | 82 U |
| FLUORANTHENE | | 20.4 | 19.5 | | 81.6 | 756 | 380 U | 350 U | 410 U |
| FLUORENE | | 74 U | 74 U | | 74 U | 71 U | 380 U | 350 U | 410 U |
| INDENO(1,2,3-CD)PYRENE | | 11 U | 11 U | | 11 U | 116 | 77 U | 70 U | 82 U |
| NAPHTHALENE | | 74 U | 74 U | | 74 U | 71 U | 380 U | 350 U | 410 U |
| PHENANTHRENE | | 74 U | 74 U | | 74 U | 356 | 380 U | 350 U | 410 U |
| PYRENE | | 16.4 | 11 U | | 50.6 | 515 | 380 U | 350 U | 410 U |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 0.34 U | 0.24 U | 0.28 U | 0.27 U | | | 0.28 U | 0.27 U | 0.3 U |
| ARSENIC | 0.97 | 0.35 U | 0.41 U | 0.97 | | | 0.4 U | 0.38 U | 0.43 U |
| BARIUM | 11.9 | 3.9 | 6.2 | 8.5 | | | 2.9 | 2.5 | 3.7 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | 1.4 J | 4 J | 1.4 J | 0.85 U | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **082** | **083** | **084** | **085** | **086** | **087** | **088** | **089** | **090** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-503 | CEF-P42-SS-504 | CEF-P42-SS-505 | CEF-P42-SS-506 | CEF-P42-SS-507 | CEF-P42-SS-508 | CEF-P42-SS-601 | CEF-P42-SS-601 | CEF-P42-SS-602 |
| nsample | CEF-P42-SS-503-01 | CEF-P42-SS-504-01 | CEF-P42-SS-505-01 | CEF-P42-SS-506-01 | CEF-P42-SS-507-01 | CEF-P42-SS-508-01 | CEF-P42-SS-601-01 | CEF-P42-SS-601-01-D | CEF-P42-SS-602-01 |
| sample | CEF-P42-SS-503-01 | CEF-P42-SS-504-01 | CEF-P42-SS-505-01 | CEF-P42-SS-506-01 | CEF-P42-SS-507-01 | CEF-P42-SS-508-01 | CEF-P42-SS-601-01 | CEF-P42-SS-DU13 | CEF-P42-SS-602-01 |
| sample_dat | 01/20/00 | 01/20/00 | 01/20/00 | 01/20/00 | 01/20/00 | 01/20/00 | 03/17/00 | 03/17/00 | 03/17/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_082** | **c_083** | **c_084** | **c_085** | **c_086** | **c_087** | **c_088** | **c_089** | **c_090** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | 5.4 J | 5.2 J | 24.1 J | 48.1 J | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | | | | | | | 96 U | 87 U | 100 U |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **091** | **092** | **093** | **094** | **095** | **096** | **097** | **098** | **099** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-603 | CEF-P42-SS-604 | CEF-P42-SS-605 | CEF-P42-SS-606 | CEF-P42-SS-402 | CEF-P42-SS-608 | CEF-P42-SS-609 | CEF-P42-SS-610 | CEF-P42-SS-611 |
| nsample | CEF-P42-SS-603-01 | CEF-P42-SS-604-01 | CEF-P42-SS-605-01 | CEF-P42-SS-606-01 | CEF-P42-SS-607-02 | CEF-P42-SS-608-01 | CEF-P42-SS-609-01 | CEF-P42-SS-610-01 | CEF-P42-SS-611-01 |
| sample | CEF-P42-SS-603-01 | CEF-P42-SS-604-01 | CEF-P42-SS-605-01 | CEF-P42-SS-606-01 | CEF-P42-SS-607-02 | CEF-P42-SS-608-01 | CEF-P42-SS-609-01 | CEF-P42-SS-610-01 | CEF-P42-SS-611-01 |
| sample_dat | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 |
| top_depth | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_091** | **c_092** | **c_093** | **c_094** | **c_095** | **c_096** | **c_097** | **c_098** | **c_099** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 350 U | 360 U |
| 2-METHYLNAPHTHALENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 350 U | 360 U |
| ACENAPHTHENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 350 U | 360 U |
| ACENAPHTHYLENE | 790 U | 760 U | 770 U | 780 U | 730 U | 750 U | 720 U | 700 U | 720 U |
| ANTHRACENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 350 U | 360 U |
| BENZO(A)ANTHRACENE | 79 U | 76 U | 154 U | 78 U | 146 U | 75 U | 72 U | 159 | 72 U |
| BENZO(A)PYRENE | 79 U | 76 U | 77 U | 78 U | 73 U | 75 U | 72 U | 131 | 72 U |
| BENZO(B)FLUORANTHENE | 79 U | 76 U | 23.4 J | 23 J | 19.9 J | 75 U | 72 U | 146 | 72 U |
| BENZO(G,H,I)PERYLENE | 79 U | 76 U | 77 U | 78 U | 73 U | 75 U | 72 U | 114 | 72 U |
| BENZO(K)FLUORANTHENE | 79 U | 76 U | 77 U | 12.1 J | 73 U | 75 U | 72 U | 105 | 28 J |
| CHRYSENE | 79 U | 76 U | 28.1 J | 23.9 J | 73 U | 75 U | 72 U | 155 | 72 U |
| DIBENZO(A,H)ANTHRACENE | 79 U | 76 U | 77 U | 78 U | 73 U | 75 U | 72 U | 70 U | 72 U |
| FLUORANTHENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 265 J | 360 U |
| FLUORENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 350 U | 360 U |
| INDENO(1,2,3-CD)PYRENE | 79 U | 76 U | 77 U | 78 U | 73 U | 75 U | 72 U | 133 | 72 U |
| NAPHTHALENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 350 U | 360 U |
| PHENANTHRENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 42.8 J | 360 U |
| PYRENE | 390 U | 380 U | 380 U | 390 U | 360 U | 380 U | 360 U | 196 J | 360 U |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 0.29 U | 1.2 U | 0.28 U | 0.26 U | | | | | |
| ARSENIC | 0.42 U | 0.41 U | 0.41 U | 0.38 U | | | | | |
| BARIUM | 3 | 1.9 | 11.5 | 25.7 | | | | | |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **091** | **092** | **093** | **094** | **095** | **096** | **097** | **098** | **099** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-603 | CEF-P42-SS-604 | CEF-P42-SS-605 | CEF-P42-SS-606 | CEF-P42-SS-402 | CEF-P42-SS-608 | CEF-P42-SS-609 | CEF-P42-SS-610 | CEF-P42-SS-611 |
| nsample | CEF-P42-SS-603-01 | CEF-P42-SS-604-01 | CEF-P42-SS-605-01 | CEF-P42-SS-606-01 | CEF-P42-SS-607-02 | CEF-P42-SS-608-01 | CEF-P42-SS-609-01 | CEF-P42-SS-610-01 | CEF-P42-SS-611-01 |
| sample | CEF-P42-SS-603-01 | CEF-P42-SS-604-01 | CEF-P42-SS-605-01 | CEF-P42-SS-606-01 | CEF-P42-SS-607-02 | CEF-P42-SS-608-01 | CEF-P42-SS-609-01 | CEF-P42-SS-610-01 | CEF-P42-SS-611-01 |
| sample_dat | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 | 03/17/00 |
| top_depth | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_091** | **c_092** | **c_093** | **c_094** | **c_095** | **c_096** | **c_097** | **c_098** | **c_099** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 99 U | 96 U | 96 U | 97 U | 91 U | 94 U | 90 U | 87 U | 90 U |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **100** | **101** | **102** | **103** | **104** | **105** | **106** | **107** | **108** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-106 | CEF-P42-SS-106 | CEF-P42-SS-213 | CEF-P42-SS-203 | CEF-P42-SS-616 | CEF-P42-SS-617 | CEF-P42-SS-206 | CEF-P42-SS-201 | CEF-P42-SS-205 |
| nsample | CEF-P42-SS-612-02 | CEF-P42-SS-612-02-D | CEF-P42-SS-613-02 | CEF-P42-SS-615-02 | CEF-P42-SS-616-01 | CEF-P42-SS-617-01 | CEF-P42-SS-618-01 | CEF-P42-SS-619-01 | CEF-P42-SS-620-01 |
| sample | CEF-P42-SS-612-02 | CEF-P42-SS-DU12 | CEF-P42-SS-613-02 | CEF-P42-SS-615-02 | CEF-P42-SS-616-01 | CEF-P42-SS-617-01 | CEF-P42-SS-618-01 | CEF-P42-SS-619-01 | CEF-P42-SS-620-01 |
| sample_dat | 03/10/00 | 03/10/00 | 03/17/00 | 03/10/00 | 03/17/00 | 03/17/00 | 03/10/00 | 03/10/00 | 03/10/00 |
| top_depth | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_100** | **c_101** | **c_102** | **c_103** | **c_104** | **c_105** | **c_106** | **c_107** | **c_108** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 180 U | 180 U | 90200 | 531 | 360 U | 360 U | 200 U | 190 U | 1180 |
| 2-METHYLNAPHTHALENE | 180 U | 180 U | 187000 | 397 | 360 U | 360 U | 269 | 1090 | 5700 |
| ACENAPHTHENE | 180 U | 180 U | 239000 | 180 U | 360 U | 360 U | 200 U | 733 | 2430 |
| ACENAPHTHYLENE | 180 U | 180 U | 76000 U | 180 U | 720 U | 720 U | 200 U | 190 U | 180 U |
| ANTHRACENE | 180 U | 180 U | 240000 | 180 U | 360 U | 360 U | 200 U | 372 | 1640 |
| BENZO(A)ANTHRACENE | 27 U | 26 U | 93600 | 43.9 | 72 U | 72 U | 30 U | 1260 | 2720 |
| BENZO(A)PYRENE | 27 U | 26 U | 55800 | 42.7 | 72 U | 72 U | 30 U | 2160 | 3900 |
| BENZO(B)FLUORANTHENE | 27 U | 26 U | 44200 | 62.5 | 72 U | 72 U | 185 | 1570 | 2720 |
| BENZO(G,H,I)PERYLENE | 27 U | 26 U | 21500 | 39.9 | 72 U | 72 U | 30 U | 1020 | 1810 |
| BENZO(K)FLUORANTHENE | 27 U | 26 U | 33600 | 32.4 | 72 U | 72 U | 30 U | 674 | 1210 |
| CHRYSENE | 27 U | 26 U | 83200 | 77.7 | 72 U | 72 U | 30 U | 1840 | 3310 |
| DIBENZO(A,H)ANTHRACENE | 27 U | 26 U | 7600 U | 27 U | 72 U | 72 U | 30 U | 46.3 | 58.5 |
| FLUORANTHENE | 27 U | 26 U | 248000 | 310 | 360 U | 360 U | 102 | 4660 | 10400 |
| FLUORENE | 180 U | 180 U | 53100 | 180 U | 360 U | 360 U | 200 U | 190 U | 180 U |
| INDENO(1,2,3-CD)PYRENE | 27 U | 26 U | 29400 | 27 U | 72 U | 72 U | 30 U | 1010 | 1490 |
| NAPHTHALENE | 180 U | 180 U | 68700 | 180 U | 360 U | 360 U | 200 U | 190 U | 1600 |
| PHENANTHRENE | 180 U | 180 U | 216000 | 315 | 360 U | 360 U | 200 U | 1720 | 6380 |
| PYRENE | 27 U | 26 U | 165000 | 80.1 | 360 U | 360 U | 56.5 | 2640 | 7000 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | | | 11.4 | 0.25 U | 0.27 U | 0.28 U | | | |
| ARSENIC | | | 5.8 | 6.3 | 0.39 U | 0.4 U | | | |
| BARIUM | | | 129 | 26.6 | 5.3 | 4.7 | | | |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **100** | **101** | **102** | **103** | **104** | **105** | **106** | **107** | **108** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-106 | CEF-P42-SS-106 | CEF-P42-SS-213 | CEF-P42-SS-203 | CEF-P42-SS-616 | CEF-P42-SS-617 | CEF-P42-SS-206 | CEF-P42-SS-201 | CEF-P42-SS-205 |
| nsample | CEF-P42-SS-612-02 | CEF-P42-SS-612-02-D | CEF-P42-SS-613-02 | CEF-P42-SS-615-02 | CEF-P42-SS-616-01 | CEF-P42-SS-617-01 | CEF-P42-SS-618-01 | CEF-P42-SS-619-01 | CEF-P42-SS-620-01 |
| sample | CEF-P42-SS-612-02 | CEF-P42-SS-DU12 | CEF-P42-SS-613-02 | CEF-P42-SS-615-02 | CEF-P42-SS-616-01 | CEF-P42-SS-617-01 | CEF-P42-SS-618-01 | CEF-P42-SS-619-01 | CEF-P42-SS-620-01 |
| sample_dat | 03/10/00 | 03/10/00 | 03/17/00 | 03/10/00 | 03/17/00 | 03/17/00 | 03/10/00 | 03/10/00 | 03/10/00 |
| top_depth | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_100** | **c_101** | **c_102** | **c_103** | **c_104** | **c_105** | **c_106** | **c_107** | **c_108** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 17.7 | 28.5 | 19700 | | 90 U | 90 U | | 1100 | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **109** | **110** | **111** | **112** | **113** | **114** | **115** | **116** | **117** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-201 | CEF-P42-SS-205 | CEF-P42-SS-206 | CEF-P42-SS-709 | CEF-P42-SS-710 | CEF-P42-SS-710 | CEF-P42-SS-711 | CEF-P42-SS-712 | CEF-P42-SS-713 |
| nsample | CEF-P42-SS-701-02 | CEF-P42-SS-704-02 | CEF-P42-SS-706-02 | CEF-P42-SS-709-01 | CEF-P42-SS-710-01 | CEF-P42-SS-710-01-D | CEF-P42-SS-711-01 | CEF-P42-SS-712-01 | CEF-P42-SS-713-01 |
| sample | CEF-P42-SS-701-02 | CEF-P42-SS-704-02 | CEF-P42-SS-706-02 | CEF-P42-SS-709-01 | CEF-P42-SS-710-01 | CEF-P42-SS-DU15 | CEF-P42-SS-711-01 | CEF-P42-SS-712-01 | CEF-P42-SS-713-01 |
| sample_dat | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 |
| top_depth | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_109** | **c_110** | **c_111** | **c_112** | **c_113** | **c_114** | **c_115** | **c_116** | **c_117** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| 2-METHYLNAPHTHALENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| ACENAPHTHENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| ACENAPHTHYLENE | 710 U | 690 U | 740 U | 730 U | 820 U | 770 U | 760 U | 810 U | 720 U |
| ANTHRACENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| BENZO(A)ANTHRACENE | 71 U | 69 U | 74 U | 47.9 J | 82 U | 77 U | 76 U | 81 U | 72 U |
| BENZO(A)PYRENE | 71 U | 69 U | 74 U | 236 | 82 U | 77 U | 76 U | 81 U | 72 U |
| BENZO(B)FLUORANTHENE | 71 U | 69 U | 74 U | 149 | 82 U | 77 U | 76 U | 81 U | 72 U |
| BENZO(G,H,I)PERYLENE | 71 U | 69 U | 74 U | 424 | 82 U | 77 U | 76 U | 81 U | 72 U |
| BENZO(K)FLUORANTHENE | 71 U | 69 U | 74 U | 98.4 | 82 U | 77 U | 76 U | 81 U | 72 U |
| CHRYSENE | 71 U | 69 U | 74 U | 25.5 J | 82 U | 77 U | 76 U | 81 U | 72 U |
| DIBENZO(A,H)ANTHRACENE | 71 U | 69 U | 74 U | 73 U | 82 U | 77 U | 76 U | 81 U | 72 U |
| FLUORANTHENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| FLUORENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| INDENO(1,2,3-CD)PYRENE | 71 U | 69 U | 74 U | 470 | 82 U | 77 U | 76 U | 81 U | 72 U |
| NAPHTHALENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| PHENANTHRENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| PYRENE | 350 U | 340 U | 370 U | 360 U | 410 U | 390 U | 380 U | 400 U | 360 U |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 0.25 U | 0.25 U | | 0.26 U | 0.29 U | 0.27 U | 0.25 U | 0.28 U | 0.26 U |
| ARSENIC | 0.37 U | 0.36 U | | 0.37 U | 0.42 U | 0.39 U | 0.37 U | 0.41 U | 0.37 U |
| BARIUM | 2.5 | 3.6 | | 2.9 | 8.9 | 23.9 | 4.3 | 7.2 | 4.3 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **109** | **110** | **111** | **112** | **113** | **114** | **115** | **116** | **117** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-201 | CEF-P42-SS-205 | CEF-P42-SS-206 | CEF-P42-SS-709 | CEF-P42-SS-710 | CEF-P42-SS-710 | CEF-P42-SS-711 | CEF-P42-SS-712 | CEF-P42-SS-713 |
| nsample | CEF-P42-SS-701-02 | CEF-P42-SS-704-02 | CEF-P42-SS-706-02 | CEF-P42-SS-709-01 | CEF-P42-SS-710-01 | CEF-P42-SS-710-01-D | CEF-P42-SS-711-01 | CEF-P42-SS-712-01 | CEF-P42-SS-713-01 |
| sample | CEF-P42-SS-701-02 | CEF-P42-SS-704-02 | CEF-P42-SS-706-02 | CEF-P42-SS-709-01 | CEF-P42-SS-710-01 | CEF-P42-SS-DU15 | CEF-P42-SS-711-01 | CEF-P42-SS-712-01 | CEF-P42-SS-713-01 |
| sample_dat | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 |
| top_depth | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_109** | **c_110** | **c_111** | **c_112** | **c_113** | **c_114** | **c_115** | **c_116** | **c_117** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 7.49 J | 8.6 U | | 14.3 | 9.2 J | 10.4 | 9.41 J | 15.5 | 8.26 J |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **118** | **119** | **120** | **121** | **122** | **123** | **124** | **125** | **126** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-714 | CEF-P42-SS-801 | CEF-P42-SS-802 | CEF-P42-SS-803 | CEF-P42-SS-804 | CEF-P42-SS-805 | CEF-P42-SS-101 | CEF-P42-SS-008 | CEF-P42-SS-008 |
| nsample | CEF-P42-SS-714-01 | CEF-P42-SS-801-01 | CEF-P42-SS-802-01 | CEF-P42-SS-803-01 | CEF-P42-SS-804-01 | CEF-P42-SS-805-01 | CEF-P42-SS-806-02 | CEF-P42-SS-807-02 | CEF-P42-SS-807-02-AVG |
| sample | CEF-P42-SS-714-01 | CEF-P42-SS-801-01 | CEF-P42-SS-802-01 | CEF-P42-SS-803-01 | CEF-P42-SS-804-01 | CEF-P42-SS-805-01 | CEF-P42-SS-806-02 | CEF-P42-SS-807-02 | CEF-P42-DUP3 |
| sample_dat | 04/13/00 | 06/20/00 | 06/20/00 | 06/20/00 | 06/20/00 | 06/20/00 | 06/18/00 | 06/18/00 | 06/18/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_118** | **c_119** | **c_120** | **c_121** | **c_122** | **c_123** | **c_124** | **c_125** | **c_126** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 390 U | 40000 | 50400 | 4770 J | 370 U | 370 U | 350 U | 390 UJ | 362.5 J |
| 2-METHYLNAPHTHALENE | 390 U | 49800 | 59300 | 6320 | 370 U | 370 U | 350 U | 390 UJ | 440 J |
| ACENAPHTHENE | 390 U | 45700 | 72000 | 5310 J | 370 U | 370 U | 350 U | 390 UJ | 540.5 J |
| ACENAPHTHYLENE | 790 U | 73000 U | 77000 U | 12000 U | 740 U | 740 U | 690 U | 770 U | 745 U |
| ANTHRACENE | 390 U | 37000 U | 41100 | 5900 U | 370 U | 370 U | 350 U | 390 U | 1645 U |
| BENZO(A)ANTHRACENE | 118 | 62500 | 68300 | 7340 | 247 | 99.2 | 69 U | 77 UJ | 420.75 J |
| BENZO(A)PYRENE | 86.2 | 33600 | 37700 | 4430 | 173 | 49 J | 69 U | 77 UJ | 422.75 J |
| BENZO(B)FLUORANTHENE | 70.1 J | 33400 | 41500 | 4660 | 169 | 56.4 J | 69 U | 77 UJ | 291.25 J |
| BENZO(G,H,I)PERYLENE | 72.2 J | 13400 | 17000 | 2460 | 96.1 | 35.6 J | 69 U | 77 UJ | 357.25 J |
| BENZO(K)FLUORANTHENE | 46.7 J | 23700 | 29000 | 2990 | 125 | 36.9 J | 69 U | 77 UJ | 158.25 J |
| CHRYSENE | 106 | 50800 | 55400 | 6070 | 219 J | 72.4 J | 350 U | 390 UJ | 557.5 J |
| DIBENZO(A,H)ANTHRACENE | 79 U | 3780 J | 5180 J | 665 J | 74 U | 74 U | 69 U | 77 U | 323.5 U |
| FLUORANTHENE | 273 J | 135000 | 173000 | 16300 | 565 | 370 U | 350 U | 390 UJ | 1197.5 J |
| FLUORENE | 390 U | 37000 U | 38000 U | 5900 U | 370 U | 370 U | 350 U | 390 U | 114 J |
| INDENO(1,2,3-CD)PYRENE | 74.2 J | 21500 | 26200 | 3740 | 134 | 43.1 J | 69 U | 77 UJ | 251.75 J |
| NAPHTHALENE | 390 U | 37000 U | 38000 U | 5900 U | 370 U | 370 U | 350 U | 390 UJ | 325.5 J |
| PHENANTHRENE | 145 J | 77500 | 146000 | 10600 | 331 J | 370 U | 350 U | 390 UJ | 977.5 J |
| PYRENE | 183 J | 89400 | 110000 | 11000 | 429 | 370 U | 350 U | 390 UJ | 872.5 J |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 0.46 U | | | | | | | 0.27 U | 7.4175 J |
| ARSENIC | 0.39 U | | | | | | | 42.1 J | 23.15 J |
| BARIUM | 12.9 | | | | | | | | |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **118** | **119** | **120** | **121** | **122** | **123** | **124** | **125** | **126** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-714 | CEF-P42-SS-801 | CEF-P42-SS-802 | CEF-P42-SS-803 | CEF-P42-SS-804 | CEF-P42-SS-805 | CEF-P42-SS-101 | CEF-P42-SS-008 | CEF-P42-SS-008 |
| nsample | CEF-P42-SS-714-01 | CEF-P42-SS-801-01 | CEF-P42-SS-802-01 | CEF-P42-SS-803-01 | CEF-P42-SS-804-01 | CEF-P42-SS-805-01 | CEF-P42-SS-806-02 | CEF-P42-SS-807-02 | CEF-P42-SS-807-02-AVG |
| sample | CEF-P42-SS-714-01 | CEF-P42-SS-801-01 | CEF-P42-SS-802-01 | CEF-P42-SS-803-01 | CEF-P42-SS-804-01 | CEF-P42-SS-805-01 | CEF-P42-SS-806-02 | CEF-P42-SS-807-02 | CEF-P42-DUP3 |
| sample_dat | 04/13/00 | 06/20/00 | 06/20/00 | 06/20/00 | 06/20/00 | 06/20/00 | 06/18/00 | 06/18/00 | 06/18/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_118** | **c_119** | **c_120** | **c_121** | **c_122** | **c_123** | **c_124** | **c_125** | **c_126** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | 13.9 | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **127** | **128** | **129** | **130** | **131** | **132** | **133** | **134** | **135** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-008 | CEF-P42-SS-009 | CEF-P42-SS-007 | CEF-P42-SS-003 | CEF-P42-SS-210 | CEF-P42-SS-005 | CEF-P42-SS-005 | CEF-P42-SS-005 | CEF-P42-SS-106 |
| nsample | CEF-P42-SS-807-02-D | CEF-P42-SS-809-02 | CEF-P42-SS-810-02 | CEF-P42-SS-813-02 | CEF-P42-SS-814-02 | CEF-P42-SS-816-02 | CEF-P42-SS-816-02-AVG | CEF-P42-SS-816-02-D | CEF-P42-SS-818-02 |
| sample | CEF-P42-DUP3 | CEF-P42-SS-809-02 | CEF-P42-SS-810-02 | CEF-P42-SS-813-02 | CEF-P42-SS-814-02 | CEF-P42-SS-816-02 | CEF-P42-DUP1 | CEF-P42-DUP1 | CEF-P42-SS-818-02 |
| sample_dat | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/20/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_127** | **c_128** | **c_129** | **c_130** | **c_131** | **c_132** | **c_133** | **c_134** | **c_135** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 530 J | | 170 J | 350 U | 1800 U | 350 U | 92.6 J | 92.6 J | |
| 2-METHYLNAPHTHALENE | 685 J | | 239 J | 350 U | 1800 U | 350 U | 146 J | 146 J | |
| ACENAPHTHENE | 886 J | | 415 | 350 U | 1800 U | 350 U | 350 U | 350 U | |
| ACENAPHTHYLENE | 720 U | | 690 U | 700 U | 3600 U | 690 U | 695 U | 700 U | |
| ANTHRACENE | 2900 U | | 350 U | 350 U | 1800 U | 350 U | 350 U | 350 U | |
| BENZO(A)ANTHRACENE | 803 J | | 526 | 70 U | 360 U | 69 U | 69.5 U | 70 U | |
| BENZO(A)PYRENE | 807 J | | 540 | 70 U | 360 U | 69 U | 27 J | 27 J | |
| BENZO(B)FLUORANTHENE | 544 J | | 751 | 70 U | 360 U | 69 U | 69.5 U | 70 U | |
| BENZO(G,H,I)PERYLENE | 676 J | | 689 | 70 U | 360 U | 69 U | 27.5 J | 27.5 J | |
| BENZO(K)FLUORANTHENE | 278 J | | 335 | 70 U | 360 U | 69 U | 69.5 U | 70 U | |
| CHRYSENE | 920 J | | 661 | 350 U | 1800 U | 350 U | 350 U | 350 U | |
| DIBENZO(A,H)ANTHRACENE | 570 U | | 550 U | 70 U | 360 U | 69 U | 69.5 U | 70 U | |
| FLUORANTHENE | 2200 J | | 848 | 350 U | 1800 U | 350 U | 88.4 J | 88.4 J | |
| FLUORENE | 114 J | | 350 U | 350 U | 1800 U | 350 U | 350 U | 350 U | |
| INDENO(1,2,3-CD)PYRENE | 465 J | | 410 | 70 U | 360 U | 69 U | 18.5 J | 18.5 J | |
| NAPHTHALENE | 456 J | | 151 J | 350 U | 1800 U | 350 U | 132 J | 132 J | |
| PHENANTHRENE | 1760 J | | 256 J | 350 U | 1800 U | 350 U | 80.5 J | 80.5 J | |
| PYRENE | 1550 J | | 859 | 350 U | 1800 U | 350 U | 58.3 J | 58.3 J | |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 14.7 J | | 6.4 J | | | | | | |
| ARSENIC | 4.2 J | 1.9 J | | | | 1.4 J | 2.35 J | 3.3 J | 0.36 U |
| BARIUM | | | | | | | | | |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **127** | **128** | **129** | **130** | **131** | **132** | **133** | **134** | **135** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-008 | CEF-P42-SS-009 | CEF-P42-SS-007 | CEF-P42-SS-003 | CEF-P42-SS-210 | CEF-P42-SS-005 | CEF-P42-SS-005 | CEF-P42-SS-005 | CEF-P42-SS-106 |
| nsample | CEF-P42-SS-807-02-D | CEF-P42-SS-809-02 | CEF-P42-SS-810-02 | CEF-P42-SS-813-02 | CEF-P42-SS-814-02 | CEF-P42-SS-816-02 | CEF-P42-SS-816-02-AVG | CEF-P42-SS-816-02-D | CEF-P42-SS-818-02 |
| sample | CEF-P42-DUP3 | CEF-P42-SS-809-02 | CEF-P42-SS-810-02 | CEF-P42-SS-813-02 | CEF-P42-SS-814-02 | CEF-P42-SS-816-02 | CEF-P42-DUP1 | CEF-P42-DUP1 | CEF-P42-SS-818-02 |
| sample_dat | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/20/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_127** | **c_128** | **c_129** | **c_130** | **c_131** | **c_132** | **c_133** | **c_134** | **c_135** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | | | | 18.1 | | 8.05 J | 15.525 | 23 | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **136** | **137** | **138** | **139** | **140** | **141** | **142** | **143** | **144** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-004 | CEF-P42-SS-004 | CEF-P42-SS-004 | CEF-P42-SS-207 | CEF-P42-SS-414 | CEF-P42-SS-102 | CEF-P42-SS-103 | CEF-P42-SS-104 | CEF-P42-SS-208 |
| nsample | CEF-P42-SS-820-02 | CEF-P42-SS-820-02-AVG | CEF-P42-SS-820-02-D | CEF-P42-SS-823-02 | CEF-P42-SS-826-02 | CEF-P42-SS-827-02 | CEF-P42-SS-828-02 | CEF-P42-SS-829-02 | CEF-P42-SS-832-02 |
| sample | CEF-P42-SS-820-02 | CEF-P42-DUP2 | CEF-P42-DUP2 | CEF-P42-SS-823-02 | CEF-P42-SS-826-02 | CEF-P42-SS-827-02 | CEF-P42-SS-828-02 | CEF-P42-SS-829-02 | CEF-P42-SS-832-02 |
| sample_dat | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_136** | **c_137** | **c_138** | **c_139** | **c_140** | **c_141** | **c_142** | **c_143** | **c_144** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| 2-METHYLNAPHTHALENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| ACENAPHTHENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| ACENAPHTHYLENE | 680 U | 685 U | 690 U | 690 U | 690 U | 680 U | 690 U | 680 U | 680 U |
| ANTHRACENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| BENZO(A)ANTHRACENE | 68 U | 68.5 U | 69 U | 27.6 J | 69 U | 68 U | 69 U | 68 U | 68 U |
| BENZO(A)PYRENE | 68 U | 68.5 U | 69 U | 26.4 J | 69 U | 21.6 J | 69 U | 68 U | 68 U |
| BENZO(B)FLUORANTHENE | 68 U | 68.5 U | 69 U | 16.9 J | 69 U | 68 U | 69 U | 68 U | 68 U |
| BENZO(G,H,I)PERYLENE | 68 U | 68.5 U | 69 U | 41.8 J | 69 U | 26.1 J | 69 U | 68 U | 68 U |
| BENZO(K)FLUORANTHENE | 68 U | 68.5 U | 69 U | 25.3 J | 69 U | 68 U | 69 U | 68 U | 68 U |
| CHRYSENE | 340 U | 345 U | 350 U | 22.6 J | 340 U | 24.9 J | 350 U | 340 U | 340 U |
| DIBENZO(A,H)ANTHRACENE | 68 U | 68.5 U | 69 U | 69 U | 69 U | 68 U | 69 U | 68 U | 68 U |
| FLUORANTHENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| FLUORENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| INDENO(1,2,3-CD)PYRENE | 68 U | 68.5 U | 69 U | 22.5 J | 69 U | 17.4 J | 69 U | 68 U | 68 U |
| NAPHTHALENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| PHENANTHRENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| PYRENE | 340 U | 345 U | 350 U | 340 U | 340 U | 340 U | 350 U | 340 U | 340 U |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | | | | | 0.25 U | | | | |
| ARSENIC | | | | 0.36 U | 0.37 U | | | | |
| BARIUM | | | | | | | | | |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **136** | **137** | **138** | **139** | **140** | **141** | **142** | **143** | **144** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-004 | CEF-P42-SS-004 | CEF-P42-SS-004 | CEF-P42-SS-207 | CEF-P42-SS-414 | CEF-P42-SS-102 | CEF-P42-SS-103 | CEF-P42-SS-104 | CEF-P42-SS-208 |
| nsample | CEF-P42-SS-820-02 | CEF-P42-SS-820-02-AVG | CEF-P42-SS-820-02-D | CEF-P42-SS-823-02 | CEF-P42-SS-826-02 | CEF-P42-SS-827-02 | CEF-P42-SS-828-02 | CEF-P42-SS-829-02 | CEF-P42-SS-832-02 |
| sample | CEF-P42-SS-820-02 | CEF-P42-DUP2 | CEF-P42-DUP2 | CEF-P42-SS-823-02 | CEF-P42-SS-826-02 | CEF-P42-SS-827-02 | CEF-P42-SS-828-02 | CEF-P42-SS-829-02 | CEF-P42-SS-832-02 |
| sample_dat | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 | 06/18/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_136** | **c_137** | **c_138** | **c_139** | **c_140** | **c_141** | **c_142** | **c_143** | **c_144** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | | | | 8.44 J | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **145** | **146** | **147** | **148** | **149** | **150** | **151** | **152** | **153** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-901 | CEF-P42-SS-902 | CEF-P42-SS-903 | CEF-P42-SS-904 | CEF-P42-SS-905 | CEF-P42-SS-905 | CEF-P42-SS-905 | CEF-P42-SS-906 | CEF-P42-SS-801 |
| nsample | CEF-P42-SS-901-01 | CEF-P42-SS-902-01 | CEF-P42-SS-903-01 | CEF-P42-SS-904-01 | CEF-P42-SS-905-01 | CEF-P42-SS-905-01-AVG | CEF-P42-SS-905-01-D | CEF-P42-SS-906-01 | CEF-P42-SS-907-02 |
| sample | CEF-P42-SS-901-01 | CEF-P42-SS-902-01 | CEF-P42-SS-903-01 | CEF-P42-SS-904-01 | CEF-P42-SS-905-01 | CEF-P42-DUP5 | CEF-P42-DUP5 | CEF-P42-SS-906-01 | CEF-P42-SS-907-02 |
| sample_dat | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/13/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_145** | **c_146** | **c_147** | **c_148** | **c_149** | **c_150** | **c_151** | **c_152** | **c_153** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 360 U | 380 U | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 318 J |
| 2-METHYLNAPHTHALENE | 360 U | 380 U | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 422 |
| ACENAPHTHENE | 360 U | 380 U | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 370 U |
| ACENAPHTHYLENE | 720 U | 750 U | 720 U | 720 U | 760 U | 760 U | 760 U | 740 U | 740 U |
| ANTHRACENE | 360 U | 380 U | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 370 U |
| BENZO(A)ANTHRACENE | 375 | 224 | 72 U | 140 U | 76 U | 76 U | 76 U | 74 U | 593 |
| BENZO(A)PYRENE | 261 | 142 | 72 U | 72 U | 76 U | 76 U | 76 U | 74 U | 641 |
| BENZO(B)FLUORANTHENE | 166 | 105 | 72 U | 72 U | 76 U | 76 U | 76 U | 74 U | 369 |
| BENZO(G,H,I)PERYLENE | 180 | 75.2 | 72 U | 72 U | 76 U | 76 U | 76 U | 74 U | 376 |
| BENZO(K)FLUORANTHENE | 109 | 94 | 72 U | 72 U | 76 U | 76 U | 76 U | 74 U | 255 |
| CHRYSENE | 243 J | 168 J | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 475 |
| DIBENZO(A,H)ANTHRACENE | 72 U | 75 U | 72 U | 72 U | 76 U | 76 U | 76 U | 74 U | 44.6 J |
| FLUORANTHENE | 723 | 542 | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 1000 |
| FLUORENE | 360 U | 380 U | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 370 U |
| INDENO(1,2,3-CD)PYRENE | 232 | 119 | 72 U | 72 U | 76 U | 76 U | 76 U | 74 U | 576 |
| NAPHTHALENE | 360 U | 380 U | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 370 U |
| PHENANTHRENE | 584 | 338 J | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 400 |
| PYRENE | 560 | 470 | 360 U | 360 U | 380 U | 380 U | 380 U | 370 U | 701 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | | | | | | | | | |
| ARSENIC | | | | | | | | | |
| BARIUM | | | | | | | | | |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **145** | **146** | **147** | **148** | **149** | **150** | **151** | **152** | **153** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-901 | CEF-P42-SS-902 | CEF-P42-SS-903 | CEF-P42-SS-904 | CEF-P42-SS-905 | CEF-P42-SS-905 | CEF-P42-SS-905 | CEF-P42-SS-906 | CEF-P42-SS-801 |
| nsample | CEF-P42-SS-901-01 | CEF-P42-SS-902-01 | CEF-P42-SS-903-01 | CEF-P42-SS-904-01 | CEF-P42-SS-905-01 | CEF-P42-SS-905-01-AVG | CEF-P42-SS-905-01-D | CEF-P42-SS-906-01 | CEF-P42-SS-907-02 |
| sample | CEF-P42-SS-901-01 | CEF-P42-SS-902-01 | CEF-P42-SS-903-01 | CEF-P42-SS-904-01 | CEF-P42-SS-905-01 | CEF-P42-DUP5 | CEF-P42-DUP5 | CEF-P42-SS-906-01 | CEF-P42-SS-907-02 |
| sample_dat | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/14/00 | 07/13/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_145** | **c_146** | **c_147** | **c_148** | **c_149** | **c_150** | **c_151** | **c_152** | **c_153** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **154** | **155** | **156** | **157** | **158** | **159** | **160** | **161** | **162** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-802 | CEF-P42-SS-802 | CEF-P42-SS-802 | CEF-P42-SS-012 | CEF-P42-SS-012 | CEF-P42-SS-006 | CEF-P42-SS-006 | CEF-P42-SS-006 | CEF-P42-SS-201 |
| nsample | CEF-P42-SS-910-02 | CEF-P42-SS-910-02-AVG | CEF-P42-SS-910-02-D | CEF-P42-SS-TOC-01 | CEF-P42-SS-TOC-01-D | CEF-P42-SU-214-03 | CEF-P42-SU-214-03-D | CEF-P42-SU-614-04 | CEF-P42-SU-702-03 |
| sample | CEF-P42-SS-910-02 | CEF-P42-DUP4 | CEF-P42-DUP4 | CEF-P42-SS-TOC-01 | CEF-P42-SS-DU11 | CEF-P42-SU-214-03 | CEF-P42-SS-DU05 | CEF-P42-SU-614-04 | CEF-P42-SU-702-03 |
| sample_dat | 07/14/00 | 07/14/00 | 07/14/00 | 03/03/00 | 03/03/00 | 09/07/99 | 09/07/99 | 03/10/00 | 04/13/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 2 |
| bottom_dep | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 3 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_154** | **c_155** | **c_156** | **c_157** | **c_158** | **c_159** | **c_160** | **c_161** | **c_162** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| 2-METHYLNAPHTHALENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| ACENAPHTHENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| ACENAPHTHYLENE | 720 U | 720 U | 720 U | | | | | | 700 U |
| ANTHRACENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| BENZO(A)ANTHRACENE | 72 U | 72 U | 72 U | | | | | | 70 U |
| BENZO(A)PYRENE | 72 U | 72 U | 72 U | | | | | | 70 U |
| BENZO(B)FLUORANTHENE | 72 U | 72 U | 72 U | | | | | | 70 U |
| BENZO(G,H,I)PERYLENE | 72 U | 72 U | 72 U | | | | | | 70 U |
| BENZO(K)FLUORANTHENE | 72 U | 72 U | 72 U | | | | | | 70 U |
| CHRYSENE | 360 U | 360 U | 360 U | | | | | | 70 U |
| DIBENZO(A,H)ANTHRACENE | 72 U | 72 U | 72 U | | | | | | 70 U |
| FLUORANTHENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| FLUORENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| INDENO(1,2,3-CD)PYRENE | 72 U | 72 U | 72 U | | | | | | 70 U |
| NAPHTHALENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| PHENANTHRENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| PYRENE | 360 U | 360 U | 360 U | | | | | | 350 U |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | | | | | | 0.54 U | 0.49 U | 0.26 U | 0.24 U |
| ARSENIC | | | | | | 30.1 | 28.3 | 0.67 U | 0.35 U |
| BARIUM | | | | | | 7.3 | 5.2 | 7.3 | 2.7 |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | 6 | 3 U | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **154** | **155** | **156** | **157** | **158** | **159** | **160** | **161** | **162** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-802 | CEF-P42-SS-802 | CEF-P42-SS-802 | CEF-P42-SS-012 | CEF-P42-SS-012 | CEF-P42-SS-006 | CEF-P42-SS-006 | CEF-P42-SS-006 | CEF-P42-SS-201 |
| nsample | CEF-P42-SS-910-02 | CEF-P42-SS-910-02-AVG | CEF-P42-SS-910-02-D | CEF-P42-SS-TOC-01 | CEF-P42-SS-TOC-01-D | CEF-P42-SU-214-03 | CEF-P42-SU-214-03-D | CEF-P42-SU-614-04 | CEF-P42-SU-702-03 |
| sample | CEF-P42-SS-910-02 | CEF-P42-DUP4 | CEF-P42-DUP4 | CEF-P42-SS-TOC-01 | CEF-P42-SS-DU11 | CEF-P42-SU-214-03 | CEF-P42-SS-DU05 | CEF-P42-SU-614-04 | CEF-P42-SU-702-03 |
| sample_dat | 07/14/00 | 07/14/00 | 07/14/00 | 03/03/00 | 03/03/00 | 09/07/99 | 09/07/99 | 03/10/00 | 04/13/00 |
| top_depth | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 2 |
| bottom_dep | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 3 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_154** | **c_155** | **c_156** | **c_157** | **c_158** | **c_159** | **c_160** | **c_161** | **c_162** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | | | | | | | | | 8.7 U |

PSC 42
Summary of Positive Detections - Soil Data

| **order** | **163** | **164** | **165** | **166** | **167** | **168** | **169** | **170** | **171** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-203 | CEF-P42-SS-205 | CEF-P42-SS-206 | CEF-P42-SS-206 | CEF-P42-SS-008 | CEF-P42-SS-210 | CEF-P42-SS-006 | CEF-P42-SS-801 | CEF-P42-SS-801 |
| nsample | CEF-P42-SU-703-03 | CEF-P42-SU-705-03 | CEF-P42-SU-707-03 | CEF-P42-SU-707-03-D | CEF-P42-SU-808-03 | CEF-P42-SU-815-03 | CEF-P42-SU-821-04 | CEF-P42-SU-908-03 | CEF-P42-SU-909-04 |
| sample | CEF-P42-SU-703-03 | CEF-P42-SU-705-03 | CEF-P42-SU-707-03 | CEF-P42-SS-DU14 | CEF-P42-SU-808-03 | CEF-P42-SU-815-03 | CEF-P42-SU-821-04 | CEF-P42-SU-908-03 | CEF-P42-SU-909-04 |
| sample_dat | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 06/18/00 | 06/20/00 | 06/18/00 | 07/13/00 | 07/13/00 |
| top_depth | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_163** | **c_164** | **c_165** | **c_166** | **c_167** | **c_168** | **c_169** | **c_170** | **c_171** |
| **Semivolatile Organics (ug/kg)** | | | | | | | | | |
| 1-METHYLNAPHTHALENE | 350 U | 340 U | 360 U | 370 U | 350 UJ | 4560 J | 350 U | 340 U | 2700 |
| 2-METHYLNAPHTHALENE | 350 U | 340 U | 360 U | 370 U | 350 UJ | 3600 UJ | 350 U | 340 U | 5070 |
| ACENAPHTHENE | 350 U | 340 U | 360 U | 370 U | 350 UJ | 3600 UJ | 350 U | 340 U | 5110 |
| ACENAPHTHYLENE | 700 U | 690 U | 730 U | 740 U | 700 UJ | 14000 UJ | 700 U | 690 U | 5500 U |
| ANTHRACENE | 350 U | 340 U | 360 U | 370 U | 350 UJ | 3600 UJ | 350 U | 340 U | 2530 J |
| BENZO(A)ANTHRACENE | 70 U | 69 U | 33.9 J | 74 U | 140 J | 720 UJ | 70 U | 250 | 4940 |
| BENZO(A)PYRENE | 70 U | 69 U | 22.5 J | 74 U | 102 J | 720 UJ | 70 U | 214 | 3570 |
| BENZO(B)FLUORANTHENE | 70 U | 69 U | 25.4 J | 74 U | 69 J | 720 UJ | 70 U | 144 | 2640 |
| BENZO(G,H,I)PERYLENE | 70 U | 69 U | 23.3 J | 74 U | 35.3 J | 720 UJ | 70 U | 110 | 1490 |
| BENZO(K)FLUORANTHENE | 70 U | 69 U | 19.2 J | 74 U | 52.6 J | 720 UJ | 70 U | 107 | 1710 |
| CHRYSENE | 70 U | 69 U | 33.5 J | 74 U | 118 J | 3600 UJ | 350 U | 245 J | 5010 |
| DIBENZO(A,H)ANTHRACENE | 70 U | 69 U | 73 U | 74 U | 70 UJ | 720 UJ | 70 U | 69 U | 550 U |
| FLUORANTHENE | 350 U | 340 U | 360 U | 370 U | 334 J | 3600 UJ | 350 U | 406 | 12700 |
| FLUORENE | 350 U | 340 U | 360 U | 370 U | 350 UJ | 7200 UJ | 350 U | 340 U | 2700 U |
| INDENO(1,2,3-CD)PYRENE | 70 U | 69 U | 21.2 J | 74 U | 68.6 J | 720 UJ | 70 U | 149 | 2070 |
| NAPHTHALENE | 350 U | 340 U | 360 U | 370 U | 350 UJ | 3600 UJ | 350 U | 340 U | 2700 U |
| PHENANTHRENE | 350 U | 340 U | 360 U | 370 U | 204 J | 3600 UJ | 350 U | 340 U | 10700 |
| PYRENE | 350 U | 340 U | 360 U | 370 U | 218 J | 14000 UJ | 350 U | 333 J | 9210 |
| **Pesticides/PCBs (ug/kg)** | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | |
| ALDRIN | | | | | | | | | |
| ALPHA-BHC | | | | | | | | | |
| ALPHA-CHLORDANE | | | | | | | | | |
| BETA-BHC | | | | | | | | | |
| DELTA-BHC | | | | | | | | | |
| DIELDRIN | | | | | | | | | |
| ENDOSULFAN I | | | | | | | | | |
| ENDOSULFAN II | | | | | | | | | |
| ENDOSULFAN SULFATE | | | | | | | | | |
| ENDRIN | | | | | | | | | |
| ENDRIN ALDEHYDE | | | | | | | | | |
| ENDRIN KETONE | | | | | | | | | |
| GAMMA-BHC (LINDANE) | | | | | | | | | |
| GAMMA-CHLORDANE | | | | | | | | | |
| HEPTACHLOR | | | | | | | | | |
| HEPTACHLOR EPOXIDE | | | | | | | | | |
| METHOXYCHLOR | | | | | | | | | |
| TOXAPHENE | | | | | | | | | |
| **Inorganics (mg/kg)** | | | | | | | | | |
| ALUMINUM | | | | | | | | | |
| ANTIMONY | 0.25 U | | | 0.25 U | 0.9 U | | | | |
| ARSENIC | 0.35 U | | | 0.36 U | 0.35 U | | | | |
| BARIUM | 3.2 | | | 2.1 | | | | | |
| BERYLLIUM | | | | | | | | | |
| CADMIUM | | | | | | | | | |
| CALCIUM | | | | | | | | | |
| CHROMIUM | | | | | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **163** | **164** | **165** | **166** | **167** | **168** | **169** | **170** | **171** |
|---|---|---|---|---|---|---|---|---|---|
| location | CEF-P42-SS-203 | CEF-P42-SS-205 | CEF-P42-SS-206 | CEF-P42-SS-206 | CEF-P42-SS-008 | CEF-P42-SS-210 | CEF-P42-SS-006 | CEF-P42-SS-801 | CEF-P42-SS-801 |
| nsample | CEF-P42-SU-703-03 | CEF-P42-SU-705-03 | CEF-P42-SU-707-03 | CEF-P42-SU-707-03-D | CEF-P42-SU-808-03 | CEF-P42-SU-815-03 | CEF-P42-SU-821-04 | CEF-P42-SU-908-03 | CEF-P42-SU-909-04 |
| sample | CEF-P42-SU-703-03 | CEF-P42-SU-705-03 | CEF-P42-SU-707-03 | CEF-P42-SS-DU14 | CEF-P42-SU-808-03 | CEF-P42-SU-815-03 | CEF-P42-SU-821-04 | CEF-P42-SU-908-03 | CEF-P42-SU-909-04 |
| sample_dat | 04/13/00 | 04/13/00 | 04/13/00 | 04/13/00 | 06/18/00 | 06/20/00 | 06/18/00 | 07/13/00 | 07/13/00 |
| top_depth | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| bottom_dep | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO | SO | SO | SO | SO | SO |
| **sort** | **c_163** | **c_164** | **c_165** | **c_166** | **c_167** | **c_168** | **c_169** | **c_170** | **c_171** |
| COBALT | | | | | | | | | |
| COPPER | | | | | | | | | |
| IRON | | | | | | | | | |
| LEAD | | | | | | | | | |
| MAGNESIUM | | | | | | | | | |
| MANGANESE | | | | | | | | | |
| MERCURY | | | | | | | | | |
| NICKEL | | | | | | | | | |
| POTASSIUM | | | | | | | | | |
| SELENIUM | | | | | | | | | |
| SILVER | | | | | | | | | |
| SODIUM | | | | | | | | | |
| THALLIUM | | | | | | | | | |
| VANADIUM | | | | | | | | | |
| ZINC | | | | | | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | | | | | | |
| TPH (C8-C40) | | | | 9.2 U | | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **172** | **173** | **174** | **175** |
|---|---|---|---|---|
| location | CEF-P42-SS-802 | CEF-P42-SS-802 | CEF-P42-SS-007 | JONNET |
| nsample | CEF-P42-SU-911-03 | CEF-P42-SU-912-04 | CEF-P42-SU-913-03 | CEF-P42-SU-914-05 |
| sample | CEF-P42-SU-911-03 | CEF-P42-SU-912-04 | CEF-P42-SU-913-03 | CEF-P42-SU-914-05 |
| sample_dat | 07/14/00 | 07/14/00 | 07/13/00 | 08/09/00 |
| top_depth | 0 | 0 | 0 | 0 |
| bottom_dep | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO |
| **sort** | **c_172** | **c_173** | **c_174** | **c_175** |
| **Semivolatile Organics (ug/kg)** | | | | |
| 1-METHYLNAPHTHALENE | 350 U | 360 U | | 190 U |
| 2-METHYLNAPHTHALENE | 350 U | 360 U | | 190 U |
| ACENAPHTHENE | 1100 U | 360 U | | 22.6 J |
| ACENAPHTHYLENE | 690 U | 730 U | | 190 U |
| ANTHRACENE | 350 U | 360 U | | 44.6 J |
| BENZO(A)ANTHRACENE | 69 U | 73 U | | 183 |
| BENZO(A)PYRENE | 69 U | 73 U | | 101 |
| BENZO(B)FLUORANTHENE | 69 U | 73 U | | 156 |
| BENZO(G,H,I)PERYLENE | 69 U | 73 U | | 111 |
| BENZO(K)FLUORANTHENE | 69 U | 73 U | | 86.1 |
| CHRYSENE | 350 U | 360 U | | 152 |
| DIBENZO(A,H)ANTHRACENE | 69 U | 73 U | | 66.3 |
| FLUORANTHENE | 350 U | 360 U | | 403 |
| FLUORENE | 350 U | 360 U | | 6.4 J |
| INDENO(1,2,3-CD)PYRENE | 69 U | 73 U | | 100 |
| NAPHTHALENE | 350 U | 360 U | | 190 U |
| PHENANTHRENE | 350 U | 360 U | | 207 |
| PYRENE | 350 U | 360 U | | 296 |
| **Pesticides/PCBs (ug/kg)** | | | | |
| 4,4'-DDD | | | | |
| 4,4'-DDE | | | | |
| 4,4'-DDT | | | | |
| ALDRIN | | | | |
| ALPHA-BHC | | | | |
| ALPHA-CHLORDANE | | | | |
| BETA-BHC | | | | |
| DELTA-BHC | | | | |
| DIELDRIN | | | | |
| ENDOSULFAN I | | | | |
| ENDOSULFAN II | | | | |
| ENDOSULFAN SULFATE | | | | |
| ENDRIN | | | | |
| ENDRIN ALDEHYDE | | | | |
| ENDRIN KETONE | | | | |
| GAMMA-BHC (LINDANE) | | | | |
| GAMMA-CHLORDANE | | | | |
| HEPTACHLOR | | | | |
| HEPTACHLOR EPOXIDE | | | | |
| METHOXYCHLOR | | | | |
| TOXAPHENE | | | | |
| **Inorganics (mg/kg)** | | | | |
| ALUMINUM | | | | |
| ANTIMONY | | | 3.7 | |
| ARSENIC | | | | |
| BARIUM | | | | |
| BERYLLIUM | | | | |
| CADMIUM | | | | |
| CALCIUM | | | | |
| CHROMIUM | | | | |

PSC 42

Summary of Positive Detections - Soil Data

| **order** | **172** | **173** | **174** | **175** |
|---|---|---|---|---|
| location | CEF-P42-SS-802 | CEF-P42-SS-802 | CEF-P42-SS-007 | JONNET |
| nsample | CEF-P42-SU-911-03 | CEF-P42-SU-912-04 | CEF-P42-SU-913-03 | CEF-P42-SU-914-05 |
| sample | CEF-P42-SU-911-03 | CEF-P42-SU-912-04 | CEF-P42-SU-913-03 | CEF-P42-SU-914-05 |
| sample_dat | 07/14/00 | 07/14/00 | 07/13/00 | 08/09/00 |
| top_depth | 0 | 0 | 0 | 0 |
| bottom_dep | 0 | 0 | 0 | 0 |
| matrix | SO | SO | SO | SO |
| **sort** | **c_172** | **c_173** | **c_174** | **c_175** |
| COBALT | | | | |
| COPPER | | | | |
| IRON | | | | |
| LEAD | | | | |
| MAGNESIUM | | | | |
| MANGANESE | | | | |
| MERCURY | | | | |
| NICKEL | | | | |
| POTASSIUM | | | | |
| SELENIUM | | | | |
| SILVER | | | | |
| SODIUM | | | | |
| THALLIUM | | | | |
| VANADIUM | | | | |
| ZINC | | | | |
| **Petroleum Hydrocarbons (mg/kg)** | | | | |
| TPH (C8-C40) | | | | |

# APPENDIX B

# REMEDIAL DESIGN

# REMOVAL ACTION DESIGN PACKAGE for PSC 42 – FORMER BOILER HOUSE/STEAM PLANT AND GENERAL STOREHOUSE (YELLOW WATER WEAPONS AREA)

## SITE BACKGROUND

Benzo(a)pyrene (BaP), TRPH, antimony, arsenic, barium, and chromium were detected in soil at concentrations in excess of the Florida Department of Environmental Protection (FDEP) residential soil cleanup target levels (SCTLs). The Base Realignment and Closure (BRAC) Cleanup Team (BCT) reviewed soil analytical results for PSC 42, and a decision was made to delineate the extent of contaminated soil. Additional site background information may be obtained in the Action Memorandum (TtNUS, 2000).

It was decided that soil samples with contaminant concentrations greater than three times the FDEP residential SCTLs or greater than the leachability criteria would be excavated. Excavation of these soils ensures protection of human health and groundwater. Some soil samples remaining on site after excavation activities have been completed may have concentrations in excess of the residential SCTLs, but the exposure concentrations were determined to be less than the residential SCTL.

The exposure concentration is represented best by the 95 percent upper confidence limit of the mean (UCL). The excavated sample points were assumed to be replaced with clean fill having contaminant concentrations equal to one half the contaminant's detection limit. If the UCL is less than the residential SCTL, protection of human health is ensured.

Because carcinogenic PAHs (CPAHs) were detected at concentrations greater than the residential SCTLs, the BCT agreed that CPAHs should be regarded as a family of compounds and their concentrations should be defined in terms of benzo(a)pyrene equivalents (BaPEq). Total BaPEq concentrations were derived for each sample using the U.S. EPA toxicity equivalent factors (TEF) (U.S. EPA, 1995. If a specific CPAH within a sample was not detected, one-half its detection limit was used in the calculation of BaPEq. If no CPAHs were detected within a sample, one-half the detection limit of BaP was used in the calculation. Samples with BaP concentrations in excess of 300 ug/kg were remediated. The removal of these samples, in combination with other samples that were excavated, resulted in a post-remediation UCL concentration for BaPEq of 77 ug/kg, less than its residential SCTL.

For Site 42, the UCLs are less than the residential SCTLs when samples with concentrations greater than three times their respective SCTLs are removed. In addition, samples with concentrations greater than

leachability criteria are to be excavated. Therefore, the pickup levels for contaminants of concern at Site 42 are the lesser of the leachability criteria and three times the residential criteria.

| Contaminant | Leachability Criteria | Residential Criteria | Pickup Level |
|---|---|---|---|
| Benzo(a)pyrene | 8,000 µg/kg | 100 µg/kg | 300 µg/kg |
| TRPH | 340 mg/kg | 340 mg/kg | 340 mg/kg |
| Arsenic | 29 mg/kg | 2.04 mg/kg (Background) | 6.12 mg/kg |
| Chromium* | 38 mg/kg | 210 mg/kg | 630 mg/kg |
| Barium | 1,600 mg/kg | 110 mg/kg | 330 mg/kg |
| Antimony | 5 mg/kg | 26 mg/kg | 5 mg/kg |

*SCTL is for hexavalent chromium only.

The areas with concentrations greater than the pickup levels are shown in Figure E-1. The statistical evaluation used to ensure that post-excavation UCLs are less than SCTLs is presented in Table 7. This table does not include samples excavated for leachability exceedances unless the concentrations were also three times greater than the residential SCTL.

**GUIDANCE NOTES**

This information is provided for general guidance purposes only. The approximate area of excavations is shown on Figure E-1. The actual extent of excavation will be surveyed by a licensed surveyor at the direction of Tetra Tech NUS, Inc. (TtNUS) with white spray-down paint (or equivalent) prior to the execution of the removal action. Analytical results identifying the areas that required removal and the vertical extent sample results are provided in Figure E-1. Figure E-2 shows sample locations remaining after excavation at which concentrations exceed residential SCTLs.

The Remedial Action Contractor (RAC) shall be responsible for the following:

- The schedule and methods of excavation.
- All aspects of work-site health and safety.
- Identification and avoidance of all aboveground and underground utilities or other manmade structures.
- Waste characterization, transport (both on and off site), and disposal of all excavated soil.

- Notification of TtNUS and the Navy if observations indicate contaminants may extend beyond the planned lateral or vertical limits of the excavation.

- Except where necessary for avoidance of structures or utilities, or where otherwise specified by TtNUS, the depth of the excavation should extend to depths varying from 1 foot below ground surface (bgs) to the water table, estimated to be 6 feet bgs, as shown on Figure E-1.

- Excavated soil shall be stockpiled on, and covered with, heavy-duty polyethylene sheeting at the site. This shall be done in a manner to avoid the potential for contaminating surrounding soil or surface water. Alternatively, soils may be stockpiled in properly covered roll-off containers.

- Stockpiling and combining of materials from different sites is permitted with prior approval of the BCT, if similar types and concentrations of contaminants are involved and were generated by similar processes.

- Materials used to backfill the excavations shall be from an uncontaminated source and be capable of supporting the same type of vegetation as the soil removed. The ground surface shall be restored to a similar or better condition than existed prior to excavation.

- Erosion and sedimentation controls.

**TABLE 1**

**ATTAINMENT OF RESIDENTIAL SCTLs**
**PSC 42 - FORMER BOILER HOUSE AND STEAM PLANT**
**NAVAL AIR STATION CECIL FIELD**
**JACKSONVILLE, FLORIDA**

| Sample Number | Pre-Excavation | | | | | | Post-Excavation | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BaPEq (PRE) | TRPH (PRE) | As (PRE) | Cr (PRE) | Ba (PRE) | Sb (PRE) | BaPEq (RES) | TRPH (RES) | As (RES) | Cr (RES) | Ba (RES) | Sb (RES) |
| **MIN** | 2.7000 | 4.3000 | 0.1000 | 0.1000 | 1.9000 | 0.1000 | 2.7000 | 4.3000 | 0.1000 | 0.1000 | 1.9000 | 0.1000 |
| **MAX** | 76,739.00 | 35,500.00 | 42.10 | 257.00 | 367.00 | 55.00 | 393.00 | 279.00 | 5.90 | 257.00 | 49.90 | 4.30 |
| **MEAN** | 2,426.87 | 805.04 | 3.10 | 7.36 | 32.11 | 1.88 | 75.41 | 48.45 | 0.41 | 5.21 | 9.38 | 0.41 |
| **t 0.95, n-1** | 0.216347686 | 0.189803002 | 0.225082897 | 0.200569139 | 0.227579865 | 0.214237428 | 0.251104032 | 0.229518357 | 0.225856896 | 0.206767728 | 0.254941655 | 0.247847061 |
| **STANDARD DEVIATION** | 9,808.89 | 4,475.16 | 6.00 | 30.01 | 48.23 | 6.04 | 81.96 | 36.67 | 0.72 | 29.69 | 11.38 | 0.82 |
| **COEFFICIENT OF VARIATION** | 4.04 | 5.56 | 1.93 | 4.08 | 1.50 | 3.22 | 1.09 | 0.76 | 1.76 | 5.70 | 1.21 | 2.03 |
| **n** | 140 | 81 | 102 | 73 | 92 | 96 | 140 | 82 | 102 | 74 | 92 | 96 |
| **UCL $_{0.95}$** | 2,606.22 | 899.42 | 3.24 | 8.06 | 33.25 | 2.01 | 77.15 | 49.38 | 0.43 | 5.93 | 9.68 | 0.43 |
| ***Goal*** | **100.00** | **340.00** | **2.04** | **210.00** | **110.00** | **26.00** | **100.00** | **340.00** | **2.04** | **210.00** | **110.00** | **26.00** |
| ***remediation level*** | **50** | **44** | **0.13** | **1.7** | **2.3** | **0.12** | **50** | **44** | **0.13** | **1.7** | **2.3** | **0.12** |
| **SS-613-02** | 76739 | 19700 | 5.8 | | 129 | 11.4 | 50 | 44 | 0.13 | | 2.3 | 0.12 |
| **SS-802** | 56825 | | | | | | 50 | | | | | |
| **SS-801** | 49408 | | | | | | 50 | | | | | |
| **SS-201** | 15469 | | 0.4 | 1.9 | 36.5 | 0.3 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-205** | 14371 | | 7.2 | 2.4 | 62.4 | 0.5 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-213** | 9668.5 | 667 | 16.9 | 31.9 | 367 | 55 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-402** | 42894 | 35500 | 5.6 | 8.2 | 70.8 | 0.94 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-803** | 6705 | | | | | | 50 | | | | | |
| **SS-002** | 8288 | 1870 | 3.7 | 4.8 | 54.6 | 2.7 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-620** | 4667 | | | | | | 50 | | | | | |
| **SS-414** | 5834 | 248 | 10.6 | 7.4 | 82.3 | 5.3 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SU-909-04** | 4832 | | | | | | 50 | | | | | |
| **SS-208** | 2990 | | 9.8 | 1.8 | 21.9 | 0.6 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-619** | 2599 | 1100 | | | | | 50 | 44 | | | | |
| **SS-103** | 2744 | 129 | 0.4 | 7.5 | 25.1 | 0.1 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-206** | 3135 | | 8.7 | 2.6 | 57.9 | 0.6 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-207** | 2391 | | 15.7 | 1.5 | 25.3 | 1 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-204** | 2203 | | 7.9 | 2 | 49.8 | 0.4 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-408** | 1678.5 | 162 | 0.2 | 11 | 18.6 | 0.8 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-102** | 1788 | 175 | 1.4 | 4.5 | 63.8 | 0.2 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-008** | 1592 | 221 | 6.8 | 10.5 | 66.1 | 10.3 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-104** | 1406 | 271 | 4.4 | 3.3 | 44.6 | 0.5 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-203** | 1160 | | 10.8 | 5.6 | 211 | 0.4 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-210** | 1206 | | 1 | 1.8 | 25.1 | 0.4 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-209** | 1170 | | 5.1 | 7.3 | 50.7 | 6.4 | 50 | | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-807-02** | 683 | | 42.1 | | | 14.7 | 50 | | 0.13 | | | 0.12 |
| **SS-202** | 981 | | 0.3 | 1 | 17.2 | 0.2 | 50 | | 0.13 | 1 | 2.3 | 0.12 |
| **SS-106** | 899 | 341 | 12.2 | 9.3 | 76 | 0.3 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-007** | 944 | 116 | 3.3 | 4 | 40 | 5.9 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-907-02** | 842 | | | | | | 50 | | | | | |
| **SS-810-02** | 988 | | | | | 6.4 | 50 | | | | | 0.12 |
| **SS-107** | 704 | 47 | 6 | 4.2 | 26.7 | 0.7 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-105** | 586 | 157 | 4.8 | 3.1 | 30.9 | 0.2 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-108** | 582 | 48 | 3.3 | 5 | 68.4 | 0.7 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-101** | 482 | 47 | 0.2 | 0.2 | 5.2 | 0.8 | 50 | 44 | 0.13 | 0.2 | 2.3 | 0.12 |
| **SS-003** | 491 | 487 | 0.7 | 1.7 | 31.9 | 0.3 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SU-815-03** | 360 | | | | | | 50 | | | | | |
| **SS-010** | 826 | 100 | 3.7 | 5.4 | 36.1 | 3.3 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| SS-112 | 384 | | 0.8 | 3.1 | 44.4 | 0.7 | 384 | | 0.8 | 3.1 | 44.4 | 0.7 |
| SS-415 | 393 | 86.6 | 3 | 3.8 | 40.1 | 1.6 | 393 | 86.6 | 3 | 3.8 | 40.1 | 1.6 |
| SS-901 | 376 | | | | | | 376 | | | | | |
| SS-709 | 341 | 14.3 | 0.2 | | 2.9 | 0.1 | 341 | 14.3 | 0.2 | | 2.9 | 0.1 |
| SS-502 | 312.5 | 155 | 1.7 | 4.4 | 21.6 | 0.3 | 312.5 | 155 | 1.7 | 4.4 | 21.6 | 0.3 |
| SU-908-03 | 305 | | | | | | 305 | | | | | |
| SS-814-02 | 180 | | | | | | 180 | | | | | |
| SS-001 | 205 | 73 | 0.43 | 2.6 | 14.9 | 0.5 | 205 | 73 | 0.43 | 2.6 | 14.9 | 0.5 |
| SS-303A | 207 | 101 | 0.47 | 1.5 | 7.3 | 0.1 | 207 | 101 | 0.47 | 1.5 | 7.3 | 0.1 |
| SS-804 | 266 | | | | | | 266 | | | | | |
| SS-301 | 224 | 48 | 0.3 | 257 | 19.7 | | 224 | 48 | 0.3 | 257 | 19.7 | |
| SS-401 | 237.5 | 45 | 0.9 | 3.7 | 34.8 | 2.8 | 237.5 | 45 | 0.9 | 3.7 | 34.8 | 2.8 |
| SS-508 | 228 | | | | | | 228 | | | | | |

**TABLE 1**

**ATTAINMENT OF RESIDENTIAL SCTLs**
**PSC 42 - FORMER BOILER HOUSE AND STEAM PLANT**
**NAVAL AIR STATION CECIL FIELD**
**JACKSONVILLE, FLORIDA**

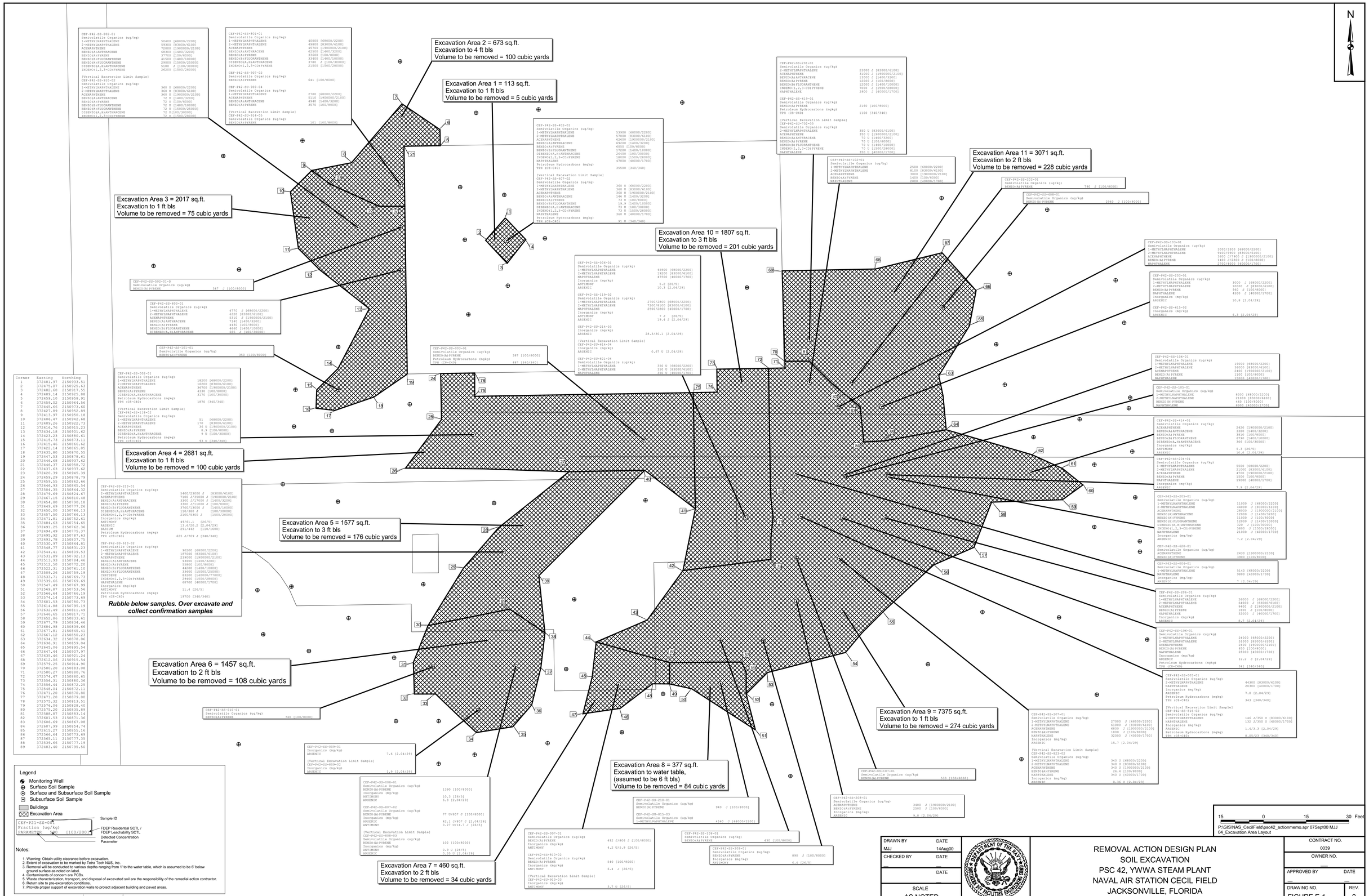
| Sample Number | Pre-Excavation | | | | | | Post-Excavation | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BaPEq (PRE) | TRPH (PRE) | As (PRE) | Cr (PRE) | Ba (PRE) | Sb (PRE) | BaPEq (RES) | TRPH (RES) | As (RES) | Cr (RES) | Ba (RES) | Sb (RES) |
| **MIN** | 2.7000 | 4.3000 | 0.1000 | 0.1000 | 1.9000 | 0.1000 | 2.7000 | 4.3000 | 0.1000 | 0.1000 | 1.9000 | 0.1000 |
| **MAX** | 76,739.00 | 35,500.00 | 42.10 | 257.00 | 367.00 | 55.00 | 393.00 | 279.00 | 5.90 | 257.00 | 49.90 | 4.30 |
| **MEAN** | 2,426.87 | 805.04 | 3.10 | 7.36 | 32.11 | 1.88 | 75.41 | 48.45 | 0.41 | 5.21 | 9.38 | 0.41 |
| **t 0.95, n-1** | 0.216347686 | 0.189803002 | 0.225082897 | 0.200569139 | 0.227579865 | 0.214237428 | 0.251104032 | 0.229518357 | 0.225856896 | 0.206767728 | 0.254941655 | 0.247847061 |
| **STANDARD DEVIATION** | 9,808.89 | 4,475.16 | 6.00 | 30.01 | 48.23 | 6.04 | 81.96 | 36.67 | 0.72 | 29.69 | 11.38 | 0.82 |
| **COEFFICIENT OF VARIATION** | 4.04 | 5.56 | 1.93 | 4.08 | 1.50 | 3.22 | 1.09 | 0.76 | 1.76 | 5.70 | 1.21 | 2.03 |
| **n** | 140 | 81 | 102 | 73 | 92 | 96 | 140 | 82 | 102 | 74 | 92 | 96 |
| **UCL $_{0.95}$** | 2,606.22 | 899.42 | 3.24 | 8.06 | 33.25 | 2.01 | 77.15 | 49.38 | 0.43 | 5.93 | 9.68 | 0.43 |
| ***Goal*** | **100.00** | **340.00** | **2.04** | **210.00** | **110.00** | **26.00** | **100.00** | **340.00** | **2.04** | **210.00** | **110.00** | **26.00** |
| ***remediation level*** | **50** | **44** | **0.13** | **1.7** | **2.3** | **0.12** | **50** | **44** | **0.13** | **1.7** | **2.3** | **0.12** |
| SS-902 | 226 | | | | | | 226 | | | | | |
| SS-610 | 211 | 44 | | | | | 211 | 44 | | | | |
| SS-113 | 175 | | 1.5 | 2.3 | 31.3 | 0.2 | 175 | | 1.5 | 2.3 | 31.3 | 0.2 |
| SS-110 | 154 | | 0.9 | 3.4 | 29.2 | 2.8 | 154 | | 0.9 | 3.4 | 29.2 | 2.8 |
| SS-410 | 157 | 45 | 0.3 | 0.5 | 4.1 | 0.1 | 157 | 45 | 0.3 | 0.5 | 4.1 | 0.1 |
| SU-808-03 | 165 | | 0.2 | | | 0.5 | 165 | | 0.2 | | | 0.5 |
| SS-015 | 270 | 82 | 0.3 | 0.5 | 18.4 | 0.4 | 270 | 82 | 0.3 | 0.5 | 18.4 | 0.4 |
| SU-914-05 | 212 | | | | | | 212 | | | | | |
| **SS-119-02** | 106 | 47 | 12.1 | 17.5 | 21.8 | 7 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| SS-714 | 153 | 13.9 | 0.2 | | 12.9 | 0.2 | 153 | 13.9 | 0.2 | | 12.9 | 0.2 |
| SS-417 | 97 | 49 | 1 | 5.2 | 24.3 | 4.3 | 97 | 49 | 1 | 5.2 | 24.3 | 4.3 |
| SS-805 | 106 | | | | | | 106 | | | | | |
| **SS-615-02** | 69 | | 6.3 | | 26.6 | 0.1 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| SS-602 | 41 | 50 | 0.2 | | 3.7 | 0.2 | 41 | 50 | 0.2 | | 3.7 | 0.2 |
| SS-712 | 41 | 15.5 | 0.2 | | 7.2 | 0.1 | 41 | 15.5 | 0.2 | | 7.2 | 0.1 |
| SS-603 | 40 | 50 | 0.2 | | 3 | 0.2 | 40 | 50 | 0.2 | | 3 | 0.2 |
| SS-116 | 57 | 44 | 0.2 | 0.5 | 4.3 | 0.1 | 57 | 44 | 0.2 | 0.5 | 4.3 | 0.1 |
| SS-606 | 88 | 49 | 0.2 | | 25.7 | 0.1 | 88 | 49 | 0.2 | | 25.7 | 0.1 |
| SS-710 | 38 | 9.8 | 0.2 | | 16.4 | 0.1 | 38 | 9.8 | 0.2 | | 16.4 | 0.1 |
| SS-604 | 38 | 48 | 0.2 | | 1.9 | 0.6 | 38 | 48 | 0.2 | | 1.9 | 0.6 |
| SS-605 | 89 | 48 | 0.2 | | 11.5 | 0.1 | 89 | 48 | 0.2 | | 11.5 | 0.1 |
| SS-608 | 38 | 47 | | | | | 38 | 47 | | | | |
| SS-711 | 38 | 9.41 | 0.2 | | 4.3 | 0.1 | 38 | 9.41 | 0.2 | | 4.3 | 0.1 |
| SS-905 | 38 | | | | | | 38 | | | | | |
| SS-607-02 | 87 | 46 | | | | | 87 | 46 | | | | |
| SS-706-02 | 37 | | | | | | 37 | | | | | |
| SS-906 | 37 | | | | | | 37 | | | | | |
| SU-912-04 | 37 | | | | | | 37 | | | | | |
| SS-303 | 53 | 47 | 0.3 | 3.4 | 2.5 | | 53 | 47 | 0.3 | 3.4 | 2.5 | |
| SS-609 | 36 | 45 | | | | | 36 | 45 | | | | |
| SS-611 | 83 | 45 | | | | | 83 | 45 | | | | |
| SS-616 | 36 | 45 | 0.2 | | 5.3 | 0.1 | 36 | 45 | 0.2 | | 5.3 | 0.1 |
| SS-617 | 36 | 45 | 0.2 | | 4.7 | 0.1 | 36 | 45 | 0.2 | | 4.7 | 0.1 |
| SS-701-02 | 36 | 7.49 | 0.2 | | 2.5 | 0.1 | 36 | 7.49 | 0.2 | | 2.5 | 0.1 |
| SS-713 | 36 | 8.26 | 0.2 | | 4.3 | 0.1 | 36 | 8.26 | 0.2 | | 4.3 | 0.1 |
| SS-903 | 36 | | | | | | 36 | | | | | |
| SS-904 | 36 | | | | | | 36 | | | | | |
| SS-910-02 | 36 | | | | | | 36 | | | | | |
| SS-601 | 35 | 44 | 0.2 | | 2.7 | 0.1 | 35 | 44 | 0.2 | | 2.7 | 0.1 |
| SS-704-02 | 35 | 4.3 | 0.2 | | 3.6 | 0.1 | 35 | 4.3 | 0.2 | | 3.6 | 0.1 |
| SS-806 | 35 | | | | | | 35 | | | | | |
| SS-813-02 | 35 | 18.1 | | | | | 35 | 18.1 | | | | |
| SS-826-02 | 35 | | 0.2 | | | 0.1 | 35 | | 0.2 | | | 0.1 |
| SS-828-02 | 35 | | | | | | 35 | | | | | |
| SU-702-03 | 35 | 4.4 | 0.2 | | | 0.1 | 35 | 4.4 | 0.2 | | | 0.1 |
| SU-703-03 | 35 | | 0.2 | | | 0.1 | 35 | | 0.2 | | | 0.1 |
| SU-705-03 | 35 | | | | | | 35 | | | | | |
| SU-821-04 | 35 | | | | | | 35 | | | | | |
| SU-911-03 | 35 | | | | | | 35 | | | | | |
| SS-820-02 | 35 | | | | | | 35 | | | | | |
| SS-829-02 | 34 | | | | | | 34 | | | | | |

**TABLE 1**

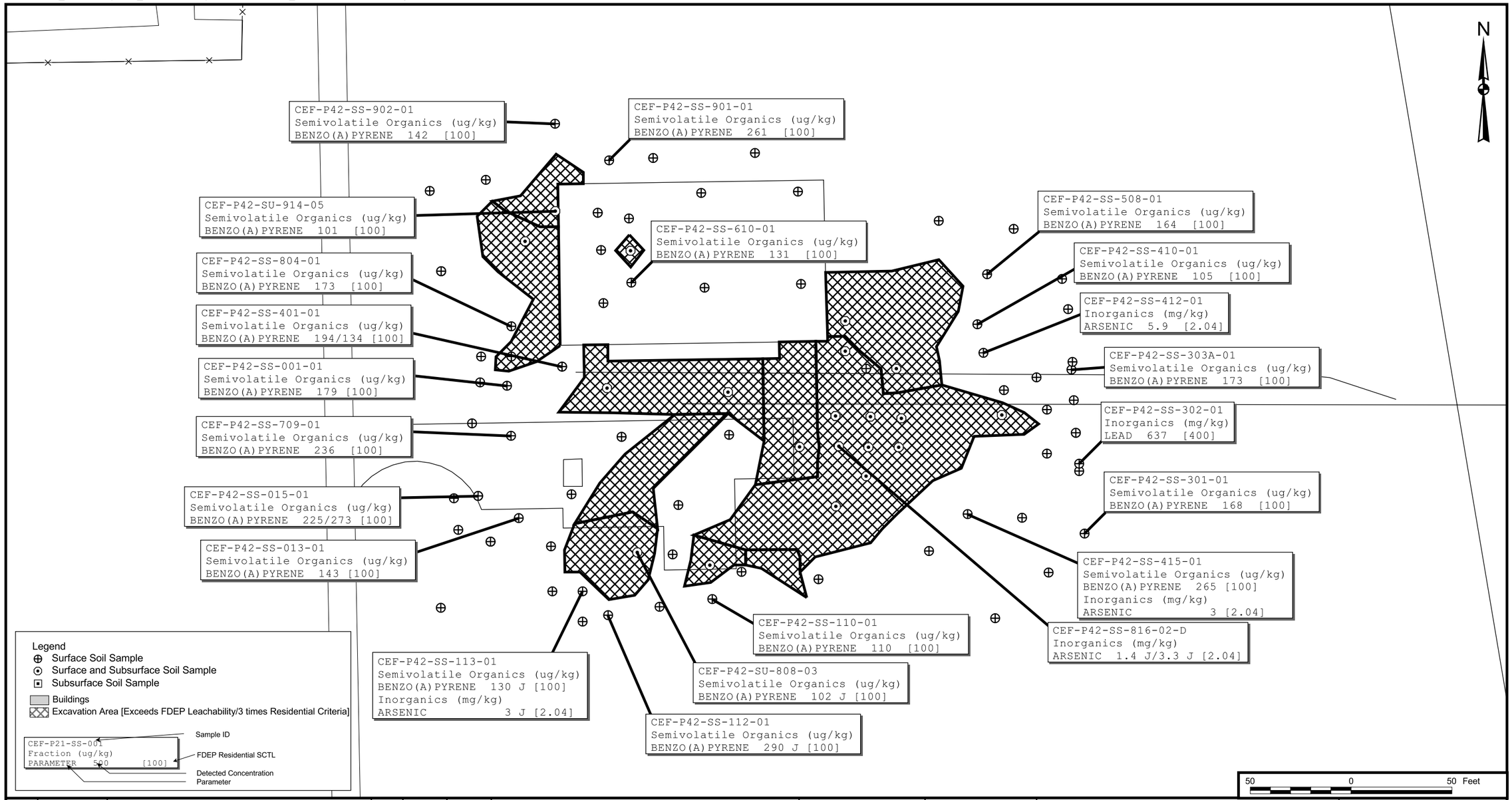
**ATTAINMENT OF RESIDENTIAL SCTLs**
**PSC 42 - FORMER BOILER HOUSE AND STEAM PLANT**
**NAVAL AIR STATION CECIL FIELD**
**JACKSONVILLE, FLORIDA**

| Sample Number | Pre-Excavation | | | | | | Post-Excavation | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BaPEq (PRE) | TRPH (PRE) | As (PRE) | Cr (PRE) | Ba (PRE) | Sb (PRE) | BaPEq (RES) | TRPH (RES) | As (RES) | Cr (RES) | Ba (RES) | Sb (RES) |
| **MIN** | 2.7000 | 4.3000 | 0.1000 | 0.1000 | 1.9000 | 0.1000 | 2.7000 | 4.3000 | 0.1000 | 0.1000 | 1.9000 | 0.1000 |
| **MAX** | 76,739.00 | 35,500.00 | 42.10 | 257.00 | 367.00 | 55.00 | 393.00 | 279.00 | 5.90 | 257.00 | 49.90 | 4.30 |
| **MEAN** | 2,426.87 | 805.04 | 3.10 | 7.36 | 32.11 | 1.88 | 75.41 | 48.45 | 0.41 | 5.21 | 9.38 | 0.41 |
| **t 0.95, n-1** | 0.216347686 | 0.189803002 | 0.225082897 | 0.200569139 | 0.227579865 | 0.214237428 | 0.251104032 | 0.229518357 | 0.225856896 | 0.206767728 | 0.254941655 | 0.247847061 |
| **STANDARD DEVIATION** | 9,808.89 | 4,475.16 | 6.00 | 30.01 | 48.23 | 6.04 | 81.96 | 36.67 | 0.72 | 29.69 | 11.38 | 0.82 |
| **COEFFICIENT OF VARIATION** | 4.04 | 5.56 | 1.93 | 4.08 | 1.50 | 3.22 | 1.09 | 0.76 | 1.76 | 5.70 | 1.21 | 2.03 |
| **n** | 140 | 81 | 102 | 73 | 92 | 96 | 140 | 82 | 102 | 74 | 92 | 96 |
| **UCL $_{0.95}$** | 2,606.22 | 899.42 | 3.24 | 8.06 | 33.25 | 2.01 | 77.15 | 49.38 | 0.43 | 5.93 | 9.68 | 0.43 |
| ***Goal*** | **100.00** | **340.00** | **2.04** | **210.00** | **110.00** | **26.00** | **100.00** | **340.00** | **2.04** | **210.00** | **110.00** | **26.00** |
| ***remediation level*** | **50** | **44** | **0.13** | **1.7** | **2.3** | **0.12** | **50** | **44** | **0.13** | **1.7** | **2.3** | **0.12** |
| SS-832-02 | 34 | | | | | | 34 | | | | | |
| SS-416 | 53 | 77.8 | 0.3 | 1.1 | 14.6 | 0.1 | 53 | 77.8 | 0.3 | 1.1 | 14.6 | 0.1 |
| SS-111 | 47.3 | | 0.8 | 5.4 | 29.7 | 0.4 | 47.3 | | 0.8 | 5.4 | 29.7 | 0.4 |
| SS-412 | 141 | 279 | 5.9 | 3 | 45.8 | 0.34 | 141 | 279 | 5.9 | 3 | 45.8 | 0.34 |
| SS-109 | 44.8 | | 0.3 | 2 | 18.9 | 0.5 | 44.8 | | 0.3 | 2 | 18.9 | 0.5 |
| SS-816-02 | 75 | 15.5 | 2.4 | | | | 75 | 15.5 | 2.4 | | | |
| SS-823-02 | 68 | 8.44 | 0.2 | | | | 68 | 8.44 | 0.2 | | | |
| SU-707-03 | 68 | 4.6 | 0.2 | | 2.1 | 0.1 | 68 | 4.6 | 0.2 | | 2.1 | 0.1 |
| SS-827-02 | 65 | | | | | | 65 | | | | | |
| SS-419 | 37 | 45 | 0.3 | 1.4 | 15 | 0.39 | 37 | 45 | 0.3 | 1.4 | 15 | 0.39 |
| SS-304 | 34 | 46 | 0.3 | 0.5 | 2 | | 34 | 46 | 0.3 | 0.5 | 2 | |
| SS-114 | 25 | | | | | | 25 | | | | | |
| SS-618 | 52 | | | | | | 52 | | | | | |
| SS-115 | 24 | | | | | | 24 | | | | | |
| SS-612-02 | 13 | 23.1 | | | | | 13 | 23.1 | | | | |
| SS-413 | 24 | 44 | 0.2 | 0.4 | 3 | 0.1 | 24 | 44 | 0.2 | 0.4 | 3 | 0.1 |
| SS-118-02 | 18 | 47 | | | | | 18 | 47 | | | | |
| **SS-004** | 18.8 | 187 | 7 | 1.7 | 33.3 | 0.3 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-005** | 8 | 343 | 7.8 | 9.9 | 53.1 | 0.4 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-006** | 64 | 293 | 10.3 | 16.8 | 114 | 5.2 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| **SS-009** | 8 | 79.3 | 7.6 | 5.3 | 122 | 1 | 50 | 44 | 0.13 | 1.7 | 2.3 | 0.12 |
| SS-011 | 8 | 153 | 0.4 | 2 | 28.8 | 2.9 | 8 | 153 | 0.4 | 2 | 28.8 | 2.9 |
| SS-012 | 8 | 22 | 0.2 | 0.5 | 11.4 | 0.2 | 8 | 22 | 0.2 | 0.5 | 11.4 | 0.2 |
| SS-013 | 153 | 81.7 | 0.6 | 2.7 | 27.4 | 2.8 | 153 | 81.7 | 0.6 | 2.7 | 27.4 | 2.8 |
| SS-014 | 8 | 22 | 0.1 | 0.1 | 8.9 | 0.2 | 8 | 22 | 0.1 | 0.1 | 8.9 | 0.2 |
| SS-420 | 23 | 55 | 0.2 | 0.5 | 6.4 | 0.4 | 23 | 55 | 0.2 | 0.5 | 6.4 | 0.4 |
| SS-421 | 6.5 | 55 | 0.2 | 0.1 | 3.4 | 0.2 | 6.5 | 55 | 0.2 | 0.1 | 3.4 | 0.2 |
| SS-301A | 19 | 46 | 0.86 | 3 | 12.8 | 0.1 | 19 | 46 | 0.86 | 3 | 12.8 | 0.1 |
| SS-302 | 13 | 47 | 0.4 | 2.6 | 9.3 | | 13 | 47 | 0.4 | 2.6 | 9.3 | |
| SS-304A | 14 | 88.6 | 0.2 | 0.57 | 5.3 | 0.1 | 14 | 88.6 | 0.2 | 0.57 | 5.3 | 0.1 |
| SS-409 | 22 | 45 | 0.2 | 0.4 | 5.9 | 0.1 | 22 | 45 | 0.2 | 0.4 | 5.9 | 0.1 |
| SS-504 | 5.5 | | 0.2 | 4 | 3.9 | 0.1 | 5.5 | | 0.2 | 4 | 3.9 | 0.1 |
| SS-505 | 13 | | 0.2 | 1.4 | 6.2 | 0.1 | 13 | | 0.2 | 1.4 | 6.2 | 0.1 |
| SS-507 | 16 | | | | | | 16 | | | | | |
| SS-302A | 5 | 92.4 | 0.66 | 1.7 | 8.8 | 0.1 | 5 | 92.4 | 0.66 | 1.7 | 8.8 | 0.1 |
| SS-411 | 5 | 44 | 0.2 | 0.2 | 2.3 | 0.1 | 5 | 44 | 0.2 | 0.2 | 2.3 | 0.1 |
| SS-418 | 5 | 44 | 0.2 | 0.1 | 3.1 | 0.1 | 5 | 44 | 0.2 | 0.1 | 3.1 | 0.1 |
| SS-117 | 2.7 | | | | | | 2.7 | | | | | |
| SS-211 | | | 0.7 | 1.9 | 49.9 | 3 | | | 0.7 | 1.9 | 49.9 | 3 |
| SS-212 | | | 0.2 | 0.9 | 27.3 | 0.9 | | | 0.2 | 0.9 | 27.3 | 0.9 |
| SS-503 | | | 0.97 | 1.4 | 11.9 | 0.2 | | | 0.97 | 1.4 | 11.9 | 0.2 |
| SS-506 | | | 0.97 | 0.4 | 8.5 | 0.1 | | | 0.97 | 0.4 | 8.5 | 0.1 |
| SS-809-02 | | | 1.9 | | | | | | 1.9 | | | |
| SS-818-02 | | | 0.2 | | | | | | 0.2 | | | |
| **SU-214-03** | | | 29.2 | 6 | 6.3 | 0.3 | | | 0.13 | 1.7 | 2.3 | 0.12 |
| SU-614-04 | | | 0.3 | | | 0.1 | | | 0.3 | | | 0.1 |
| SU-913-03 | | | | | | 3.7 | | | | | | 3.7 |

Bolded samples will be excavated to achieve UCLs less than SCTLs. Samples excavated due to leachability exceedances only (concentrations less than three times the residential SCTL, but greater than the leachability SCTL) are not included in this table.


N
Excavation Area 1 = 113 sq.ft.
Excavation to 1 ft bls
Volume to be removed = 5 cubic yards
Excavation Area 2 = 673 sq.ft.
Excavation to 4 ft bls
Volume to be removed = 100 cubic yards
Excavation Area 3 = 2017 sq.ft.
Excavation to 1 ft bls
Volume to be removed = 75 cubic yards
Excavation Area 4 = 2681 sq.ft.
Excavation to 1 ft bls
Volume to be removed = 100 cubic yards
Excavation Area 5 = 1577 sq.ft.
Excavation to 3 ft bls
Volume to be removed = 176 cubic yards
Excavation Area 6 = 1457 sq.ft.
Excavation to 2 ft bls
Volume to be removed = 108 cubic yards
Excavation Area 7 = 460 sq.ft.
Excavation to 2 ft bls
Volume to be removed = 34 cubic yards
Excavation Area 8 = 377 sq.ft.
Excavation to water table,
(assumed to be 6 ft bls)
Volume to be removed = 84 cubic yards
Excavation Area 9 = 7375 sq.ft.
Excavation to 1 ft bls
Volume to be removed = 274 cubic yards
Excavation Area 10 = 1807 sq.ft.
Excavation to 3 ft bls
Volume to be removed = 201 cubic yards
Excavation Area 11 = 3071 sq.ft.
Excavation to 2 ft bls
Volume to be removed = 228 cubic yards
Rubble below samples. Over excavate and collect confirmation samples
Legend
Monitoring Well
Surface Soil Sample
Surface and Subsurface Soil Sample
Subsurface Soil Sample
Buildings
Excavation Area
Sample ID
CEF-P21-SS-05
Fraction (ug/kg)
PARAMETER 520 [100/200]
FDEP Residential SCTL / FDEP Leachability SCTL
Detected Concentration Parameter
Notes:
1. Warning: Obtain utility clearance before excavation.
2. Extent of excavation to be marked by Tetra Tech NUS, Inc.
3. Removal will be conducted to various depths ranging from 1' to the water table, which is assumed to be 6' below ground surface as noted on label.
4. Contaminants of concern are PCBs.
5. Waste characterization, transport, and disposal of excavated soil are the responsibility of the remedial action contractor.
6. Return site to pre-excavation conditions.
7. Provide proper support of excavation walls to protect adjacent building and paved areas.
15 0 15 30 Feet
P:\GIS\NAS_CecilField\gis042_actionmemo.apr 07Sept00 MJJ
04_Excavation Area Layout
DRAWN BY MJJ
DATE 14Aug00
CHECKED BY
DATE
DATE
SCALE AS NOTED
DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND
REMOVAL ACTION DESIGN PLAN
SOIL EXCAVATION
PSC 42, YWWA STEAM PLANT
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
CONTRACT NO. 0039
OWNER NO.
APPROVED BY
DATE
DRAWING NO. FIGURE E-1
REV. 0

P:\GIS\NAS_CecilField\psc42_actionmemo.apr 25Jan01 MJJ 06_Post Excavation Area Layout




| NO. | DATE | REVISIONS | BY | CHKD | APPD | REFERENCES |
|---|---|---|---|---|---|---|
| | | | | | | |

DRAWN BY: MJJ — DATE: 13Dec00
CHECKED BY — DATE
COST/SCHED-AREA
SCALE: AS NOTED

REMOVAL ACTION DESIGN PLAN
SAMPLES EXCEEDING RESIDENTIAL CRITERIA
POST SOIL EXCAVATION
PSC 42, YWWA STEAM PLANT
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

CONTRACT NO. 0039
APPROVED BY — DATE
APPROVED BY — DATE
DRAWING NO. FIGURE E-2
REV. 0