



HEARTLAND ENVIRONMENTAL SERVICES, INC.

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August 20, 1991

To: John Williams Jr.
Roy F. Weston Inc.
One Weston Way
West Chester, PA.

From: Paul B. Humburg
Project Manager
Heartland ESI

Subject: Submittal of the Analytical Data Validation Report for
TPHCs results of sampling conducted for Coltsneck Naval
Weapons Station New Jersey. Nine soil samples plus 1
MS/D and eight water samples plus 1 MS/D were analyzed
by Lionville Laboratory, Roy F. Weston Inc.

Samples Reviewed Soil Samples (all)

<u>Naval ID</u>	<u>Roy F. Weston ID</u>
11-001-S001	9103L829-001
11-002-S001	9103L829-002
11-003-S001	9103L829-003
11-003-S101	9103L829-004
11-004-S001	9103L829-005
11-004-S001MS	9103L829-005MS
11-004-S001MSD	9103L829-005MSD
11-005-S001	9103L829-006
11-006-S001	9103L829-007
11-007-S001	9103L829-008
11-008-S001	9103L829-009

Water Samples (all)

04-004-W001	9103L829-010
04-003-W001	9103L829-012
04-003-W001MS	9103L829-012MS
04-003-W001MSD	9103L829-012MSD
04-002-W001	9103L829-014
04-001-W001	9103L829-016
04-001-W101	9103L829-017
10-001-W001	9103L829-024
10-002-W001	9103L829-025
10-003-W001	9103L829-026

Heartland ESI has reviewed the data for the samples listed for the TPHC analyses using the Protocol according to the NEESA level D requirements. Analytical data in this report were screened to determine usability of results and also to determine contractual compliance relative to the requirements and deliverables of NEESA level D. This screening assumes analytical results are correct as reported and merely provides an

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interpretation of the reported quality control results.
Individual fraction was reviewed as follows:

* TPHCs by Paul Humburg with secondary review
by Chris Scarpellino

Specific comments are provided in the following Data Assessment
Summary.



DATA ASSESSMENT SUMMARY
TPHCs

General

The findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from the analysis of nine (9) field soil samples and one matrix spike and duplicate pair and eight field water samples and one matrix spike and duplicate pair. Overall, the TPHC data quality was good.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

There appears as if there is no contamination of the preparation blank during these analyses.

Spike Recovery

No deficiencies in this section.

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.



SUMMARY OF DATA QUALIFICATIONS

<u>SPECIFIC</u> <u>SAMPLE ID</u>	<u>ANALYTE</u>	<u>DL</u>	<u>QL</u>	<u>FINDING</u>
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Data stands as reported.

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

Roy F. Weston, Inc. - Lionville Laboratory

Petroleum Hydrocarbons by IR

Report Date: 03/08/91 15:41

RFW Batch Number: 9103L829

Client: NAVAL WEAPONS/COLTSNECK

Work Order: 1771-15-03-0000

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	Cust ID: 11-001-S001	11-002-S001	11-003-S001	11-003-S101	11-004-S001	11-004-S001
Sample Information	RFW#: 001	002	003	004	005	005 MS
	Matrix: SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
	D.F.: 5.00	4.00	1.00	1.00	1.00	1.00
	Units: mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Petroleum Hydrocarbon	640	290	15	11	4.6 U	92 %

	Cust ID: 11-004-S001	11-005-S001	11-006-S001	11-007-S001	11-008-S001	04-004-W001
Sample Information	RFW#: 005 MSD	006	007	008	009	010
	Matrix: SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	WATER
	D.F.: 1.00	1.00	1.00	1.00	1.00	1.00
	Units: mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/L
Petroleum Hydrocarbon	95 %	4.6 U	8.2	4.7 U	53	0.54 J

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

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Roy F. Weston, Inc. - Lionville Laboratory

Petroleum Hydrocarbons by IR

Report Date: 03/08/91 15:41

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	Cust ID: 04-003-W001	04-003-W001	04-003-W001	04-002-W001	04-001-W001	04-001-W101
Sample Information	RFW#: 012	012 MS	012 MSD	014	016	017
	Matrix: WATER	WATER	WATER	WATER	WATER	WATER
	D.F.: 1.00	1.00	1.00	1.00	1.00	1.00
	Units: mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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Petroleum Hydrocarbon	1.3 U	83 %	84 %	1.1 U	1.0 U	1.1 U

	Cust ID: 10-001-W001	10-002-W001	10-003-W001	PBLK	PBLK BS	PBLK
Sample Information	RFW#: 024	025	026	91DHC528-MB1	91DHC528-MB1	91DHC529-MB1
	Matrix: WATER	WATER	WATER	SOIL	SOIL	WATER
	D.F.: 1.00	1.00	1.00	1.00	1.00	1.00
	Units: mg/L	mg/L	mg/L	mg/Kg	mg/Kg	mg/L
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Petroleum Hydrocarbon	1.0 U	1.1 U	1.1 U	4.0 U	98 %	1.0 U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked. %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

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Cust ID: PBLK BS PBLK BSD

Sample Information

RFW#:	91DHC529-MB1	91DHC529-MB1
Matrix:	WATER	WATER
D.F.:	1.00	1.00
Units:	mg/L	mg/L

Petroleum Hydrocarbon	74	%	95	%
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U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked. %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC