Westinghouse
Hanford Company

0048297

OSM ORGANIC DATA ASSESSMENT

DATE [redacted] 3/24/98 SAMPLES/MATRIX A1808 soil

REVIEWED BY JA Lerch

LABORATORY PNEL

CASE # 2240

SDG # A1808

DATA ASSESSMENT SUMMARY

	VOA	ABN	PEST
1. Holding Times (Form I)	O	O	O
2. Surrogate Recovery (II)	O	O	X
3. Matrix Spike/ MSD (III)	O	O	O
4. Blanks (IV)	O	O	O
5. GC/MS Tune (V)	O	O	
6. Calibration (VI-VII; VIII pest)	O	O	O
7. Internal Standards (VIII)	O	O	
8. Instr. Perform. (IX pest)			O
9. Other ( ) none			

NOV 1997 RECEIVED EDMC

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems, some data may be unusable

OVERALL ASSESSMENT: no major problems - all data acceptable with qualifications

NOTES : none

Refer to the corresponding attachments for explanation of any problems.

ORGANIC QC - Holding Times

Name JA Lerch JL Date 3/24

COMMENTS: VOA-all HT requirements met
SemiVOA-all HT requirements met
Pest- HT requirements met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Surrogate Recovery

Name JA Lerch Date 3/24

COMMENTS: VOA - all surrogate recoveries in control limits
SemiVOA - all recoveries within limits
Pest - surrogate recovery high, blank recovery ok

ACTION: qualify associated sample results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
Pest A1808	all	UJ			

ORGANIC QC - MS/MSD

Name JA Lerch Date 3/24

COMMENTS: A1808- all MS+MSD recoveries ok, RPDs ok
A1808- all MS+MSD recoveries ok, RPD's ok
A1808- all MS+MSD recoveries, RPD's within limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Blanks

Name JA Lerch JL Date 3/24

COMMENTS: VOA - method blank summary ok; no contaminants detecte
SemiVOA - method blank summary ok; no contaminations
Pest - method blank summary ok; no contaminants
detected in blank

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - GC/MS Tune

Name JA Lerch Date 3/24

COMMENTS: VOA all tune; mass calibration criteria met
SemiVOA - all tune/mass calibration results ok

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Calibrations

Name JA Lerch Date 3/24/90

COMMENTS: VOA - all initial & continuing calibration criteria met
SemiVOA - all initial & continuing cal. results ok
Pest - initial cal linearity check within limits
- 72 hr sequence requirements met
- cont. cal. factor %D within limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Internal Standards

Name JA Lerch Date 3/24

COMMENTS: VOA - all IS area counts ok, RT shifts within limits
SemiVOA - all IS area counts + RT shifts within control limits
Pest - N/A

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Instrument Performance (pest)

Name JA Lerch JL Date 3/24

COMMENTS: - endrin/DDT % breakdown within limits
- DBC RT shift %D ok
- all RT window criteria met
- DDT RT criteria met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Other

Name JA Lerch Date 3/24

COMMENTS: none

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1808

Lab Name: PNELI_____ Contract: WESTINGHOUS

Lab Code: PNELI__ Case No.: 2240__ SAS No.: _____ SDG No.: A1808_

Matrix: (soil/water) SOIL_ Lab Sample ID: 2240-01_____

Sample wt/vol: _30.0 (g/mL) G___ Lab File ID: _____

Level: (low/med) LOW__ Date Received: 01/20/90

% Moisture: not dec. _2 dec. __ Date Extracted: 01/23/90

Extraction: (SepF/Cont/Sonc) SONC_ Date Analyzed: 01/30/90

GPC Cleanup: (Y/N) Y__ pH: _9.1 Dilution Factor: __1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	16	U
319-85-7	beta-BHC	16	U
319-86-8	delta-BHC	16	U
58-89-9	gamma-BHC (Lindane)	16	U
76-44-8	Heptachlor	16	U
309-00-2	Aldrin	16	U
1024-57-3	Heptachlor epoxide	16	U
959-98-8	Endosulfan I	16	U
60-57-1	Dieldrin	33	U
72-55-9	4,4'-DDE	33	U
72-20-8	Endrin	33	U
33213-65-9	Endosulfan II	33	U
72-54-8	4,4'-DDD	33	U
1031-07-8	Endosulfan sulfate	33	U
50-29-3	4,4'-DDT	33	U
72-43-5	Methoxychlor	160	U
53494-70-5	Endrin ketone	33	U
5103-71-9	alpha-Chlordane	160	U
5103-74-2	gamma-Chlordane	160	U
8001-35-2	Toxaphene	330	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	330	U
11096-82-5	Aroclor-1260	330	U

JL 3/24/90

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Westinghouse
Hanford Company

OSM INORGANIC DATA ASSESSMENT

DATE 3/24/90 SAMPLES/MATRIX A1808 soil

REVIEWED BY JA Lerch

LABORATORY PNEL

CASE # 2240

SDG # A1808

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)	O	O	O	O
2. Blanks (III)	X	X	O	O
3. ICS (IV)	X			
4. Matrix Spike (V)	X	O	O	O
5. Duplicate Analysis (VI)	X	O	O	O
6. LCS (VII)	O	O		
7. Serial Dilution (IX)	X			
8. GFAA				
9. Holding Times (XIV)	O	O	O	O
10. Other QC See attachment				

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: no major problems - all results acceptable w/attached qualifiers

NOTES: none

o Refer to the corresponding attachments for explanation of any problems.

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INORGANIC QC - Calibrations

Name JA Lerch Date 3/24/90

COMMENTS: - all ICV + CCV recoveries within limits
- analysis run log check ok
- CN midrange std check ok; CN, Hg correlation coefficients within limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Blanks

Name JA Lerch Date 3/24

COMMENTS: trace cont. of Ba, Be, Cd, Ca, Cr, Cu, Fe, Mg, Mn, Ni, K, Ag, V, Zn

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
A1808	Be	U			
	Cd	U			
	Cr	U			
	Ni	U			
	Na	U			
	V	U			

INORGANIC QC - ICS

Name JA Lerch Date 3/24

COMMENTS: - all ICS results within control limits
- possible false positive values for Na

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
A1808	Na	acceptable			

INORGANIC QC - Matrix Spike

Name JA Lerch Date 3/24

COMMENTS: A1808S - Sb recovery out of control (low) - post digest ok
- all other recoveries within limits

ACTION: qualify associated results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
A1808	Sb	UJ			

INORGANIC QC - Duplicate Analysis

Name JA Lerch JL Date 3/24

COMMENTS: A1808D - Ca, Fe, Mn duplicate analysis RPD out of control limits

ACTION: qualify associated sample results as per OSM guidelines.

sample #	constituent	value/qual
A1808	Ca	J
	Fe	J
	Mn	J

sample #	constituent	value/qual

INORGANIC QC - LCS

Name JA Lerch Date 3/24

COMMENTS: -all solid LCS results within control limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Serial Dilution

Name JA Lerch Date 3/24

COMMENTS: A1808L - Al, Na dilution %D out of control limits
- no evidence of negative interference

ACTION: qualify associated results as per QSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
A1808	Al	J			
	Na	UJ			

INORGANIC QC - Holding Times

Name JA Lerch Date 3/24

COMMENTS: -all HT requirements met

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - GFAA

Name JA Lerch Date 3/24

COMMENTS: -no MSA required or Performed
-all furnace analytical spike
recoveries ok

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - other

Name JA Lerch Date 3/24

COMMENTS: temp. of samples at time of receipt was 0°C

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1808

Lab Name: G S E L I Contract:

Lab Code: GULF Case No.: SAS No.: SDG No.: A-1808

Matrix (soil/water): SOIL Lab Sample ID: 2240-01

Level (low/med): LOW Date Received: 01/23/90

% Solids: 98.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2400	J	E	P
7440-36-0	Antimony	4.9	~~N~~	N UJ	P
7440-38-2	Arsenic	0.62	B		F
7440-39-3	Barium	56.7			P
7440-41-7	Beryllium	0.63	~~B~~	U	P
7440-43-9	Cadmium	0.58	~~B~~	U	P
7440-70-2	Calcium	5370	J	*	P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	5.2	B		P
7440-50-8	Copper	13.0			P
7439-89-6	Iron	11400	J	*	P
7439-92-1	Lead	2.2			F
7439-95-4	Magnesium	2120			P
7439-96-5	Manganese	156	J	*	P
7439-97-6	Mercury	0.08	U		CV
7440-02-0	Nickel	6.3	U		P
7440-09-7	Potassium	404	B		P
7782-49-2	Selenium	0.35	U		F
7440-22-4	Silver	0.31	U		P
7440-23-5	Sodium	307	~~N~~	E UJ	P
7440-28-0	Thallium	0.52	U		F
7440-62-2	Vanadium	9.4	U		P
7440-66-6	Zinc	17.3			P
	Cyanide	0.50	U		C

3/24/90

Color Before: GRAY Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts: YES

Comments:
SAMPLE CONTAINED ROCKS.