

CORRES CONTROL
OUTGOING LTR NO



00002-377

DOE ORDER#

94 RF 00760

EG&G ROCKY FLATS, INC
ROCKY FLATS PLANT, P O BOX 464 GOLDEN COLORADO 80402 0464 (303) 966 7000

January 18, 1994

94-RF-00760

Richard J Schassburger
Acting Director
Environmental Restoration Division
DOE, RFO

Attn J Pepe

OPERABLE UNIT NOS 1, 2, 5, 6 AND 7 SOIL VAPOR SURVEYS - NMH-008-94

On January 10, 1994, Mr T Reeves, on behalf of the Department of Energy, Rocky Flats Office, requested a summary of the subcontractors and operating procedures utilized by EG&G in performing soil vapor surveys (SVSs) Attached is a summary of the subcontractors, equipment and analytical methods that were employed for the SVS work conducted at Operable Unit (OU) Nos 1, 2, 5, 6 and 7 Other project specific information is also included The surveys conducted at these operable units followed the procedures listed at the bottom of page two

If you have questions or require further information, please contact D W Pontius of Environmental Engineering & Technology at X8616

N M Hutchins
N M Hutchins
Director
Environmental Science & Engineering

DWP cet

Attachment
As Stated

cc
E. A Dillé - DOE/RFO
S R Grace - DOE/RFO
A H Pauole - DOE/RFO
J Pepe - DOE/RFO
T Reeves - DOE/RFO
M N Silverman - DOE/RFO

ADMIN RECORD

A 0006-000704

DIST	LTR	ENC
AMARAL ME		
BENEDETTI RL		
BENJAMIN A		
BERMAN HS		
BRANCH DB		
CARNIVAL GJ		
COPP RD		
DAVIS JG		
FERRERA DW		
HANNI BJ		
HARMAN LK		
HEALY TJ		
HEDAHL T		
HILBIG JG		
HUTCHINS NM	X	X
KIRBY WA		
KUESTER AW		
MAHAFFEY JW		
MANN HP		
MARX GE		
MCDONALD MM		
MCKENNA FG		
MONTROSE JK		
MORGAN RV		
POTTER GL		
PIZZUTO VM		
RISING TL		
SANDLIN NB		
SETLOCK GH		
STEWART DL		
SULLIVAN MT		
SWANSON ER		
WILKINSON RB		
WILLIAMS S (ORC)		
WILSON JM		
WYANT RD		
<i>Hutchins, NM</i>	X	X
HOPKINS, J K	X	
BUSBY, W.S	X	X
<i>Pontius, DW</i>	X	X
BOUX, R.Z	X	X
LAURIN, D.J	X	X
MAST, B.C	X	X
CORRES CONTROL	X	X
ADMN RECORD/080	X	X
PATS/T130G		
TRAFFIC		
O'ROURKE, T P	X	X
CLASSIFICATION		
UCNI		
UNCLASSIFIED		
CONFIDENTIAL		
SECRET		

AUTHORIZED CLASSIFIER
DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

IN REPLY TO RFP CC NO

ACTION ITEM STATUS
T PARTIAL OPEN

T CLOSED

APPROVALS

PREPARED INITIALS

U.P./C

OPERABLE UNIT 1, 2, 5, 6 AND 7 SOIL VAPOR SURVEYS

- **OU2 (Phase I) IHSS Nos 110, 112, and 113**
Work Performed By Walsh & Assoc thru Advanced Sciences, Inc (ASI)
Analytes Tested Carbon Tetrachloride (CCl₄), 1,1-Dichloroethane (DCA), 1,2-DCA, 1,1-Dichloroethene (DCE), cis & trans 1,2-DCE, Tetrachloroethene (PCE), Trichloroethene (TCE), and Vinyl Chloride
Field Work Conducted June, 1993
Equipment Used to Perform Analysis Hewlett-Packard (H-P) 5890A GC equipped with a Photoionization Detector/Electron Capture Detector (PID/ECD) systems and RESTEK Rtx GC column for analyte separation
Analytical Method Employed EPA Modified 8020
Quality Control Level II
Number Locations Tested 120
Deviations From Procedures None reported
- **OU2 (Phase IIA) IHSS Nos 109, 110, 111 1, 112, and 113**
Work Performed By GEO Environmental, Inc thru Metcalf & Eddy
Analytes Tested CCl₄, 1,1-DCA, PCE, and TCE
Field Work Conducted November, 1993
Equipment Used to Perform Analysis H-P 5890 Series II GC equipped with PID/ECD systems and capillary column for analyte separation
Analytical Method Employed EPA Modified 8010
Quality Control Level II
Number Locations Tested 60
Deviations From Procedures None reported
- **OU2 (Phase IIB) IHSS Nos 119 1 (OU1), 109, 110, 111 1, 112, 113**
Work Performed By GEO Environmental, Inc thru Metcalf & Eddy
Analytes Tested CCl₄, 1,1-DCA, 1,1-DCE, PCE, TCE, and Toluene
Field Work Conducted December, 1993
Equipment Used to Perform Analysis Same as Phase IIA
Analytical Method Employed EPA Modified 8010/8020
Quality Control Level II
Number Locations Tested 40
Deviations From Procedures None reported
- **OU5 IHSS No 115 (Original Landfill)**
Work Performed By Walsh & Assoc thru ASI
Analytes Tested Benzene, CCl₄, Dichloromethane, PCE, 1,1,1-Trichloroethane, TCE
Field Work Conducted February, 1993
Equipment Used to Perform Analysis Same as OU2 Phase I
Analytical Method Employed EPA Modified 8020
Quality Control Level II
Number Locations Tested 370
Deviations From Procedures None reported

- **OU6 IHSS No 165 (Triangle Area)**
Work Performed By GEO Environmental, Inc thru Woodward-Clyde
Analytes Tested Acetone, 2-Butanone, CCl₄, Chloroform, DCA, PCE, TCE, Toluene
Field Work Conducted October, 1992
Equipment Used to Perform Analysis Same as OU2 Phase IIA
Analytical Method Employed EPA Modified 8010/8020
Quality Control Level II
Number Locations Tested 56
Deviations From Procedures None reported
- **OU7 IHSS No 203 (Inactive Hazardous Waste Storage Area)**
Work Performed By Walsh & Assoc thru S M Stoller
Analytes Tested Acetone, Cis & Trans 1,2-DCE, Hydrogen Sulfide, Methylene Chloride,
1,1,1-TCA, TCE, Toluene, and Xylene
Field Work Conducted December, 1992
Equipment Used to Perform Analysis Same as OU2 Phase I
Analytical Method Employed EPA Modified 8020
Quality Control Level II
Number Locations Tested 50
Deviations From Procedures None reported

The following is a list of EG&G Standard Operating Procedures (SOPs) that were followed while the soil vapor survey work was conducted at the above referenced Operable Units. Deviations from the procedures are as noted above.

- OPS-GT 09, Soil Gas Survey
- OPS-FO 03, General Equipment Decontamination
- OPS-FO 04, Heavy Equipment Decontamination
- OPS-FO 06, Handling of PPE
- OPS-FO 07, Handling of Decontaminated Water & Wash Water
- OPS-FO 08, Handling of Drilling Fluids and Cuttings
- OPS-FO 10, Receiving, Labeling, and Handling of Environmental Materials Containers
- OPS-FO 12, Decontamination Facility Operations
- OPS-FO 15, Photoionization Detectors and Flame Ionization Detectors
- OPS-FO 16, Field Radiation Measurements