10 of 10-

Rocky Mountain Analytical Laboratory

ANALYTICAL RESULTS FOR U.S. GEOLOGICAL SURVEY ENSECO-RMAL NO. 013918

MARCH 30, 1991

ISECO

Reviewed by:

4 en Randall Thompson

Lindsay Breye

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#### Introduction

This report presents the analytical results as well as supporting information to aid in the evaluation and interpretation of the data and is arranged in the following order:

- o Sample Description Information
- o Analytical Test Requests
- o Analytical Results
- o Quality Control Report

#### Sample Description Information

The Sample Description Information lists all of the samples received in this project together with the internal laboratory identification number assigned for each sample. Each project received at Enseco - RMAL is assigned a unique six digit number. Samples within the project are numbered sequentially. The laboratory identification number is a combination of the six digit project code and the sample sequence number.

Also given in the Sample Description Information is the Sample Type (matrix), Date of Sampling (if known) and Date of Receipt at the laboratory.

#### Analytical Test Requests

The Analytical Test Requests lists the analyses that were performed on each sample. The Custom Test column indicates where tests have been modified to conform to the specific requirements of this project.

### SAMPLE DESCRIPTION INFORMATION for U.S. Geological Survey

Lab ID	Client ID	Matrix	Sampl Date	ed Time	Received Date
013918-0001-SA	MVMWK 03-2	AQUEOUS	08 MAR 91	09:53	09 MAR 91
013918-0002-SA	MVMWK 04-2	AQUEOUS	08 MAR 91	11:35	09 MAR 91
013918-0003-SA	MVMWK 05-2	AQUEOUS	08 MAR 91	11:50	09 MAR 91
013918-0004-SA	MVMWK 06-2	AQUEOUS	08 MAR 91	07:55	09 MAR 91

### ANALYTICAL TEST REQUESTS for U.S. Geological Survey

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Lab ID:	Group	Analysis Description	Custom
013918	Code		Test?
0001 - 0004	A	Nitrate Plus Nitrite Halogenated Volatile Organics Halogenated Volatile Organics-2nd Column Analysis	N N N

#### Analytical Results

The analytical results for this project are presented in the following data tables. Each data table includes sample identification information, and when available and appropriate, dates sampled, received, authorized, prepared and analyzed. The authorization data is the date when the project was defined by the client such that laboratory work could begin.

Data sheets contain a listing of the parameters measured in each test, the analytical results and the Enseco reporting limit. Reporting limits are adjusted to reflect dilution of the sample, when appropriate. Solid and waste samples are reported on an "as received" basis, i.e. no correction is made for moisture content.

Enseco-RMAL is no longer routinely blank-correcting analytical data. Uncorrected analytical results are reported, along with associated blank results, for all organic and metals analyses. Analytical results and blank results are reported for conventional inorganic parameters as specified in the method. This policy is described in detail in the Enseco Incorporated Quality Assurance Program Plan for Environmental Chemical Monitoring, Revision 3.3, May, 1989.

The results from the Standard Enseco QA/QC Program, which generates data which are independent of matrix effects, is provided subsequently.



## Halogenated Volatile Organics

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Method 8010

Client Name: Client ID:	U.S. Geological MVMWK 03-2	Survey			
Matrix: Authorized:	AQUEOUS 09 MAR 91	Sampled: 08 M Prepared: NA	AR 91	Received: 09 Analyzed: 20	MAR 91 Mar 91
Parameter		Resul	t Units	Reporting Limit	
Chlonomothan	0	ND	ug /1	1 1	т
Bromomethane	<b>G</b>	ND	ug/L ug/l	6.0	I
Dichlorodifl	uoromethane	ND	ug/L	9.0	
Vinyl chlorid	de	ND	ug/L	0.60	
Chloroethane		ND	ug/L	3.0	
Methylene ch	loride	ND	ug/L	2.0	
Irichloroflu	oromethane	ND	ug/L	5.0	
1,1-Uichioro	ethene	NU	ug/L	0.70	
1, 1-DICRIORO(	ethane chloroothono		ug/L	0.40	
Chloroform	chioroethene		ug/L	0.50	
1.2-Dichloro	ethane	ND	ug/L	0.50	
1.1.1-Trichl	oroethane	ND	ug/L	0.20	
Carbon tetra	chloride	ND	ug/L	0.60	
Bromodichlor	omethane	ND	uğ́/L	0.50	
1,2-Dichloro	propane	ND	ug/L	0.50	
trans-1,3-Di	chloropropene	ND	ug/L	2.0	
Irichloroeth	ene	ND	ug/L	0.60	
UIDromochior	omethane	NU	ug/L	0.60	
2-Chloroothy	l vinvl othon		ug/L	0.20	
Bromoform	i vinyi etner	ND	ug/L	1.0	
1.1.2.2-Tetr	achloroethane	ND	ug/L ug/l	1.4	
Tetrachloroe	thene	ND	ug/L	0.40	
Chlorobenzen	8	ND	ug/L	1.2	
1,3-Dichloro	benzene	ND	ug/L	1.0	
1,2-Dichloro	benzene	ND	ug/L	0.50	
1,4-Dichloro	benzene	ND	ug/L	0.50	
Benzyl chior	lde	ND	ug/L	6.8	
bic/2 Chlore	iconnonvl)	NU	ug/L	5.0	
ether		ND	ua/I	10	
1-Chlorohexa	ne	ND	ug/L	5.0	
4-Chlorotolu	ene	ND	ug/L	23	
Dibromometha	ne	ND	ug/L	5.0	
1,1,1,2-Tetr	achloroethane	ND	ug/L	5.0	
1,2,3-Trichl	oropropane	ND	ug/L	5.0	
Surrogate		Recov	ery		
Bromochlorom	ethane	86	%		
<u></u>	(co	ntinued on followi	ng page)		
ND = Not det NA = Not app	ected licable				
Reported By:	Garth Atkins	Appro	ved By: Je	ff Lowry	



### Halogenated Volatile Organics (CONT.)

Method 8010

Client Name: Client ID:	U.S. Geological MVMWK 03-2	Survey						
Lab ID: Matrix: Authorized:	013918-0001-SA AQUEOUS 09 MAR 91	Sampled: Prepared:	08 MAR Na	91	Received: Analyzed:	09 20	Mar Mar	<b>91</b> 91

Note T : Preferred values unless footnoted on secondary column test.

ND = Not detected NA = Not applicable

Reported By: Garth Atkins

Approved By: Jeff Lowry



# Halogenated Volatile Organics

Method 8010

Client Name: U.S. G Client ID: MVMWK	eological Su 04-2	urvey				
Matrix: AQUEOU Authorized: 09 MAR	S 91	Sampled: Prepared:	08 MAR 91 NA		Received: 09 Analyzed: 20	MAR 91 MAR 91
Parameter		·	Result	Units	Reporting Limit	
				•	2	
Chloromethane Bromomethane Dichlorodifluoromet Vinyl chloride Chloroethane Methylene chloride Trichlorofluorometh 1,1-Dichloroethane trans-1,2-Dichloroe Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethan arbon tetrachlorid Bromodichloromethan 1,2-Dichloropropane trans-1,3-Dichlorop Trichloroethene Dibromochloromethan 1,1,2-Trichloroethan 2-Chloroethyl vinyl Bromoform 1,1,2,2-Tetrachloro Tetrachloroethene Chlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl chloride Bromobenzene bis(2-Chloroisoprop	hane ane thene thene e ropene e ether ethane		ND ND ND ND ND ND ND ND ND ND ND ND ND N	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	$\begin{array}{c} 1.1\\ 6.0\\ 9.0\\ 0.60\\ 3.0\\ 2.0\\ 5.0\\ 0.70\\ 0.40\\ 0.50\\ 0.30\\ 0.50\\ 0.20\\ 0.60\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.60\\ 0.50\\ 0.60\\ 0.50\\ 0.60\\ 0.50\\ 0.60\\ 0.50\\ 0.60\\ 0.50\\$	Т
Dis(2-Chloroisoprop ether	yı)-		ND	ua/l	10	
1-Chlorohexane			ND	ug/L	5.0	
4-Chlorotoluene			ND	ug/L	23	
UIDromomethane	othane			ug/L	5.0	
1,2,3-Trichloroprop	ane		ND	ug/L ug/L	5.0	
Surrogate			Recovery			
Bromochloromethane			85	%		
ND = Not detected NA = Not applicable	(cont	inued on fo	llowing pa	ige)		
Reported By: Garth	Atkins		Approved E	By: Je	ff Lowry	



## Halogenated Volatile Organics (CONT.)

Method 8010

Client Name: Client ID:	U.S. Geological MVMWK 04-2	Survey						
Lab ID: Matrix: Authorized:	013918-0002-SA AQUEOUS 09 MAR 91	Sampled: Prepared:	08 MAR Na	91	Received: Analyzed:	09 20	MAR Mar	91 91

Note T : Preferred values unless footnoted on secondary column test. ND = Not detected NA = Not applicable

Reported By: Garth Atkins

Approved By: Jeff Lowry

Enseco A Corning Company

# Halogenated Volatile Organics

Method 8010

Client Name: U.S. Geological Client ID: MVMWK 05-2	Survey	
Lab ID: 013918-0003-SA		Dessived: 00 MAD 01
Matrix: AUULUUS Authorized: 09 MAR 91	Sampled: US MAK 91 Prenared: NA	Analyzed: 09 MAR 91 Analyzed: 21 MAR 91
Author (Zed. 05 MAR 51		
		Reporting
Parameter	Result	Units Limit
Chloromethane	ND	ug/i 1.1 T
Bromomethane	ND	ug/L 6.0
Dichlorodifluoromethane	ND	ug/L 9.0
Vinyl chloride	ND	ug/L 0.60
Chloroethane	ND	ug/L 3.0
Methylene chloride	ND	ug/L 2.0
Irichlorofluoromethane	ND	ug/L 5.0
1,1-Dichloroethene		
trans-1 2-Dichloroethene		
Chloroform	ND	ug/1 0.30
1.2-Dichloroethane	ND	ug/L 0.50
1.1.1-Trichloroethane	ND	ug/L 0.20
Carbon tetrachloride	ND	ug/L 0.60
Bromodichloromethane	ND	ug/L 0.50
1,2-Dichloropropane	0.64	ug/L 0.50
trans-1,3-Dichloropropene	ND	ug/L 2.0
Irichloroethene	ND	ug/L 0.60
Dibromochioromethane	ND	
1,1,2-irichioroethane 2-Chloroothyl vinyl othor		
Bromoform	ND	
1.1.2.2-Tetrachloroethane	ND	
Tetrachloroethene	ND	ug/L 0.40
Chlorobenzene	ND	ug/L 1.2
1,3-Dichlorobenzene	ND	ug/L 1.0
1,2-Dichlorobenzene	ND	ug/L 0.50
1,4-Dichlorobenzene	ND	ug/L 0.50
Benzyl chloride	ND	ug/L 6.8
Bromobenzene	NU	ug/L 5.0
Dis(2-Unioroisopropyi)-		ug/i 10
1_Chlorobeyane		
4-Chlorotoluene	ND	ug/l 23
Dibromomethane	ND	ug/L 5.0
1.1.1.2-Tetrachloroethane	ND	ug/L 5.0
1,2,3-Trichloropropane	ND	ug/L 5.0
Surrogate	Recovery	
Russesh] avamathana	00	0/
bromoch for one chane	30	70
(co ND = Not detected NA = Not applicable	ntinued on following pa	ge)
Dependent of Due to Colling	Approved P	v. loff lowny



Halogenated Volatile Organics (CONT.)

Method 8010

Client Name: Client ID:	U.S. Geological MVMWK 05-2	Survey						
Lab ID: Matrix: Authorized:	013918-0003-SA AQUEOUS 09 MAR 91	Sampled: Prepared:	08 MAR NA	91	Received: Analyzed:	<b>09</b> 21	Mar Mar	91 91

Note T : Preferred values unless footnoted on secondary column test. ND = Not detected NA = Not applicable Reported By: Bret Collins Approved By: Jeff Lowry

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# Halogenated Volatile Organics-2nd Column Analysis

Method 8010

Client Name: Client ID: Lab ID: Matrix:	U.S. Geological MVMWK 05-2 013918-0003-SA AQUEOUS	Survey Sampled:	08 MAR 91	1	Received: 09 M/	AR 91
Authorized:	09 MAR 91	Prepared:	NA		Analyzed: 21 M/	AR 91
Parameter			Result	Units	Reporting Limit	
Chloromethane Bromomethane Dichlorodiflu Vinyl chlorid Chloroethane Methylene ch Trichloroflud 1,1-Dichlorod trans-1,2-Dic Chloroform 1,2-Dichlorod 1,1,1-Trichlo Carbon tetrad Bromodichloro 1,2-Dichlorof trans-1,3-Dic Trichloroethy Dibromochloro 1,1,2-Trichlo 2-Chloroethy Bromoform 1,1,2,2-Tetra Tetrachloroe Chlorobenzene 1,3-Dichlorof 1,2-Dichlorof 1,3-Dichlorof 1,2-Dichlorof 1,2-Dichlorof 1,2-Dichlorof 1,2-Dichlorof 1,3-Dichlorof 1,2-Dichlorof	a chloroethane benzene		ND ND ND ND ND ND ND ND ND ND ND ND ND N	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	$\begin{array}{c} 1.1\\ 6.0\\ 9.0\\ 0.60\\ 3.0\\ 2.0\\ 5.0\\ 0.70\\ 0.40\\ 0.50\\ 0.30\\ 0.50\\ 0.20\\ 0.60\\ 0.50\\$	L
Surrogate			Recovery	57		
Bromochlorom	ethane		81	%		
ND = Not det NA = Not app	co) ected licable	ntinued on fo	ollowing p	age)		
Reported By:	Bret Collins		Approved	By: Je	ff Lowry	

Halogenated Volatile Organics-2nd Column Analysis (CONT.)

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A Corning Company

Method 8010

Client Name: Client ID:	U.S. Geological MVMWK 05-2	Survey						
Lab ID: Matrix:	013918-0003-SA AQUEOUS	Sampled:	08 MAF	8 91	Received:	09	MAR	91
Authorized:	09 MAR 91	Prepared:	NA		Analyzed:	21	MAR	91

Note L : These components are not separable using this method and are therefore quantified together.

ND = Not detected NA = Not applicable

Reported By: Bret Collins

Approved By: Jeff Lowry

# Halogenated Volatile Organics

Method 8010

ical Survey -SA				
Sampled: Prepared:	08 MAR 91 Na		Received: 09 Analyzed: 21	MAR 91 MAR 91
	Result	Units	Reporting Limit	
e r e	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	$\begin{array}{c} 1.1\\ 6.0\\ 9.0\\ 0.60\\ 3.0\\ 2.0\\ 5.0\\ 0.70\\ 0.40\\ 0.50\\ 0.30\\ 0.50\\ 0.20\\ 0.60\\ 0.50\\ 0.50\\ 2.0\\ 0.60\\ 0.50\\ 0.50\\ 0.50\\ 1.4\\ 0.40\\ 1.2\\ 1.0\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.50\\ 0.2$	Т
e	ND ND ND ND	ug/L ug/L ug/L ug/L	23 5.0 5.0 5.0	
	Recovery			
	85	%		
(continued on fo	ollowing pa	ge)		
ns	Approved B	y: Je	ff Lowry	
	-SA Sampled: Prepared: e r e (continued on fo	e SA Sampled: 08 MAR 91 Prepared: NA Result ND ND N	sA Sampled: 08 MAR 91 Prepared: NA Result Units ND ug/L ND ug	SA       Sampled: 08 MAR 91       Received: 09         Prepared: NA       Reporting         Result       Units         ND       ug/L       6.0         ND       ug/L       6.0         ND       ug/L       6.0         ND       ug/L       9.0         ND       ug/L       9.0         ND       ug/L       0.60         ND       ug/L       0.60         ND       ug/L       0.60         ND       ug/L       0.70         ND       ug/L       0.70         ND       ug/L       0.50         0.30       ug/L       0.50         0.30       ug/L       0.20         ND       ug/L       0.60         ND       ug/L       0.20         ND       ug/L       0.60         ND       ug/L       0.20         ND       ug/L       0.60         ND       ug/L       0.50         ND



# Halogenated Volatile Organics (CONT.)

Method 8010

Client Name:	U.S. Geological	Survey						
Client ID:	MVMWK 06-2							
Lab ID:	013918-0004-SA							
Matrix:	AQUEOUS	Sampled:	08 MAR	91	Received:	09	MAR	91
Authorized:	09 MAR 91	Prepared:	NA		Analyzed:	21	MAR	91
					•			

Note T : Preferred values unless footnoted on secondary column test. ND = Not detected NA = Not applicable

Reported By: Bret Collins

Approved By: Jeff Lowry

# Halogenated Volatile Organics-2nd Column Analysis

Method 8010

Client Name: Client ID: Lab ID: Matrix: Authorized:	U.S. Geological MVMWK 06-2 013918-0004-SA AQUEOUS 09 MAR 91	Survey Sampled: Prepared:	08 MAR NA	91	Received: 09 Analyzed: 21	MAR MAR	91 91
Parameter		F	Result	Units	Reporting Limit		
Chloromethane Bromomethane Dichlorodifle Vinyl chlorid Chloroethane Methylene ch Trichloroflud 1,1-Dichlorod trans-1,2-Dic Chloroform 1,2-Dichlorod 1,1,1-Trichle Carbon tetrad Bromodichlord 1,2-Dichlorod trans-1,3-Dic Trichloroethe Dibromochlord 1,1,2-Trichle 2-Chloroethy Bromoform 1,1,2,2-Tetra Tetrachloroe Chlorobenzene 1,3-Dichlorod 1,2-Dichlorod 1,3-Dichlorod 1,2-Dichlorod 1,2-Dichlorod 1,2-Dichlorod 1,2-Dichlorod 1,3-Dichlorod 1,2-Dichlorod	e uoromethane de loride promethane ethene ethane chloroethene ethane propane chloropropene ene propane chloropropene ene omethane l vinyl ether achloroethane l vinyl ether achloroethane ide isopropyl)-		ND ND ND ND ND ND ND ND ND ND ND ND ND N	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	$\begin{array}{c} 1.1\\ 6.0\\ 9.0\\ 0.60\\ 3.0\\ 2.0\\ 5.0\\ 0.70\\ 0.40\\ 0.50\\ 0.30\\ 0.50\\ 0.20\\ 0.60\\ 0.50\\ 0.50\\ 2.0\\ 0.60\\ 0.50\\ 0.50\\ 0.50\\ 1.4\\ 0.40\\ 1.2\\ 1.0\\ 0.5$		L
4-Chlorotolu Dibromometha 1,1,1,2-Tetr 1,2,3-Trichl	ene ne achloroethane oropropane		nd Nd Nd Nd	ug/L ug/L ug/L ug/L	23 5.0 5.0 5.0		L
Surrogate		í	Recovery	y			
Bromochlorom	ethane		83	%			
ND = Not det NA = Not app	(co ected licable	ntinued on fo	llowing	page)			
Reported By:	Bret Collins	1	Approved	d By: Je	ff Lowry		

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Halogenated Volatile Organics-2nd Column Analysis (CONT.)

Method 8010

08 MAR 91

NA

Client Name:	U.S. Geological	Survey
Client ID:	MVMWK 06-2	-
Lab ID:	013918-0004-SA	
Matrix:	AQUEOUS	Sampled:
Authorized:	09 MAR 91	Prepared:

Received:	09	MAR	91
Analvzed:	21	MAR	91

Note L : These components are not separable using this method and are therefore quantified together.

ND = Not detected NA = Not applicable

Reported By: Bret Collins

Approved By: Jeff Lowry

General Inorganics

Client Name: Client ID: Lab ID:	U.S. Geological MVMWK 03-2 013918-0001-SA	Survey				
Matrix: Authorized:	AQUEOUS 09 MAR 91	Sample Prepare	d: 08 MAR 9 d: See Belo	l Receiv w Analyz	ved: 09 MAR 9 ed: See Belo	91 DW
Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Nitrate plus	Nitrite ND	mg/L	0.050	353.2	NA	21 MAR 91

ND = Not detected NA = Not applicable

Reported By: Linda Sullivan

Approved By: Dave Roberts

## General Inorganics

Client Name: Client ID: Lab ID: Matrix: Authorized:	U.S. Geological MVMWK 04-2 013918-0002-SA AQUEOUS 09 MAR 91	Survey Sample Prepare	d: 08 MAR 9 d: See Belo	1 Receiv w Analyz	ved: 09 MAR 9 zed: See Belo	91 Dw
Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Nitrate plus	Nitrite 51.8	mg/L	2.5	353.2	NA	21 MAR 91

ND = Not detected NA = Not applicable

Reported By: Linda Sullivan

Approved By: Dave Roberts

## General Inorganics

Client Name: Client ID: Lab ID: Matrix: Authorized:	U.S. Geological MVMWK 05-2 013918-0003-SA AQUEOUS 09 MAR 91	Survey Sampled Prepared	: 08 MAR 9 : See Belo	l Receive w Analyze	d: 09 MAR 9 d: See Belo	91 W
Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Nitrate plus	Nitrite ND	mg/L	0.050	353.2	NA	21 MAR 91

ND = Not detected NA = Not applicable

Reported By: Linda Sullivan

Enseco A Corning Company

## General Inorganics

Client Name: Client ID: Lab ID: Matrix: Authorized:	U.S. Geological MVMWK 06-2 013918-0004-SA AQUEOUS 09 MAR 91	Survey Sample Prepared	d: 08 MAR 9 d: See Belo	1 Receiv w Analyz	ed: O9 MAR 9 ed: See Belo	1 w
Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Nitrate plus	Nitrite ND	mg/L	0.050	353.2	NA	21 MAR 91

ND = Not detected NA = Not applicable

Reported By: Linda Sullivan



#### Quality Control Results

The Enseco laboratories operate under a vigorous QA/QC program designed to ensure the generation of scientifically valid, legally defensible data by monitoring every aspect of laboratory operations. Routine QA/QC procedures include the use of approved methodologies, independent verification of analytical standards, use of duplicate Laboratory Control Samples to assess the precision and accuracy of the methodology on a routine basis, and a rigorous system of data review.

In addition, the Enseco laboratories maintain a comprehensive set of certifications from both state and federal governmental agencies which require frequent analyses of blind audit samples. Enseco - Rocky Mountain Analytical Laboratory is certified by the EPA under the EPA/CLP program for both Organic and Inorganic analyses, under the USATHAMA (U.S. Army) program, by the Army Corps of Engineers, and the states of Colorado, New Jersey, New York, Utah, and Florida, among others.

The standard laboratory QC package is designed to:

- 1) establish a strong, cost-effective QC program that ensures the generation of scientifically valid, legally defensible data
- . 2) assess the laboratory's performance of the analytical method using control limits generated with a well-defined matrix
  - establish clear-cut guidelines for acceptability of analytical data so that QC decisions can be made immediately at the bench, and
  - 4) provide a standard set of reportables which assures the client of the quality of his data.

The Enseco QC program is based upon monitoring the precision and accuracy of an analytical method by analyzing a set of Duplicate Control Samples (DCS) at frequent, well-defined intervals. Each DCS is a well-characterized matrix which is spiked with target compounds at 5-100 times the reporting limit, depending upon the methodology being monitored. The purpose of the DCS is not to duplicate the sample matrix, but rather to provide an interference-free, homogeneous matrix from which to gather data to establish control limits. These limits are used to determine whether data generated by the laboratory on any given day is in control.

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Control limits for accuracy (percent recovery) are based on the average, historical percent recovery +/- 3 standard deviation units. Control limits for precision (relative percent difference) range from 0 (identical duplicate DCS results) to the average, historical relative percent difference + 3 standard deviation units. These control limits are fairly narrow based on the consistency of the matrix being monitored and are updated on a quarterly basis.

For each batch of samples analyzed, an additional control measure is taken in the form of a Single Control Sample (SCS). The SCS consists of a control matrix that is spiked with either representative target compounds or surrogate compounds appropriate to the method being used. An SCS is prepared for each sample lot for which the DCS pair are not analyzed.

Accuracy for DCS and SCS is measured by Percent Recovery.

$$% \text{ Recovery} = \frac{\text{Measured Concentration}}{\text{Actual Concentration}} \times 100$$
Precision for DCS is measured by Relative Percent Difference (RPD).
$$RPD = \frac{| \text{ Measured Concentration DCS1 - Measured Concentration DCS2 }|}{(\text{Measured Concentration DCS1 + Measured Concentration DCS2})/2} \times 100$$

All samples analyzed concurrently by the same test are assigned the same QC lot number. Projects which contain numerous samples, analyzed over several days, may have multiple QC lot numbers associated with each test. The QC information which follows includes a listing of the QC lot numbers associated with each of the samples reported, DCS and SCS (where applicable) recoveries from the QC lots associated with the samples, and control limits for these lots. The QC data is reported by test code, in the order that the tests are reported in the analytical results section of this report.

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## QC LOT ASSIGNMENT REPORT Volatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
013918-0001-SA 013918-0002-SA 013918-0003-SA 013918-0003-SA 013918-0004-SA 013918-0004-SA	AQUEOUS AQUEOUS AQUEOUS AQUEOUS AQUEOUS AQUEOUS	601-A 601-A 601-A 601-A 601-A 601-A	19 MAR 91-F9 19 MAR 91-F9 21 MAR 91-F9 21 MAR 91-F9 21 MAR 91-F9 21 MAR 91-F9 21 MAR 91-F9	19 MAR 91-F9 19 MAR 91-F9 21 MAR 91-F9 21 MAR 91-F9 21 MAR 91-F9 21 MAR 91-F9 21 MAR 91-F9

### DUPLICATE CONTROL SAMPLE REPORT Volatile Organics by GC

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Analyta	Ci Spákod	Concentration			Accuracy		Precision	
Analyte	зрткец	DCS1	DCS2	AVG	DCS	Limits	DCS L	) imit
Category: 601-A Matrix: AQUEOUS QC Lot: 19 MAR 91-F9 Concentration Units: u	lg/L							
1,1-Dichloroethane Chloroform Bromodichloromethane Trichloroethene Chlorobenzene	5.0 5.0 10 5.0 5.0	5.51 5.35 8.20 5.81 3.82	5.89 5.84 8.96 6.17 4.88	5.70 5.60 8.58 5.99 4.35	114 112 86 120 87	80-130 80-120 80-120 70-120 80-120	6.7 8.8 8.9 6.0 24	20 20 20 20 20
Category: 601-A Matrix: AQUEOUS QC Lot: 21 MAR 91-F9 Concentration Units: u	lg∕L							
1,1-Dichloroethane Chloroform Bromodichloromethane Trichloroethene Chlorobenzene	5.0 5.0 10 5.0 5.0	4.77 5.10 8.07 4.94 4.24	4.89 5.23 8.19 4.82 4.13	4.83 5.16 8.13 4.88 4.18	97 103 81 98 84	80-130 80-120 80-120 70-120 80-120	2.5 2.5 1.5 2.5 2.6	20 20 20 20 20

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A Corning Company

Calculations are performed before rounding to avoid round-off errors in calculated results.

SINGLE CONTROL SAMPLE REPORT Volatile Organics by GC

Analyte	Concent Spiked	ration Measured	Accura SCS	cy(%) Limits
Category: 601-A Matrix: AQUEOUS QC Lot: 19 MAR 91-F9 QC Run: Concentration Units: ug/L	19 MAR 91-F9			
Bromochloromethane	5.00	4.92	98	20-160
Category: 601-A Matrix: AQUEOUS QC Lot: 21 MAR 91-F9 QC Run: Concentration Units: ug/L	21 MAR 91-F9			
Bromochloromethane	5.00	4.22	84	20-160

Calculations are performed before rounding to avoid round-off errors in calculated results.

Enseco A Corning Company METHOD BLANK REPORT Volatile Organics by GC

. .

Analyte	Result	Units	Reporting Limit
Test: 601-AFIR-A Matrix: AQUEOUS QC Lot: 19 MAR 91-F9 QC Run: 19	MAR 91-F9		
Chloromethane Bromomethane Dichlorodifluoromethane Vinyl chloride Chloroethane Methylene chloride Trichlorofluoromethane 1,1-Dichloroethene 1,1-Dichloroethane trans-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Carbon tetrachloride Bromodichloromethane 1,2-Dichloropropane trans-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane 2-Chloroethyl vinyl ether Bromoform 1,1,2,2-Tetrachloroethane Tetrachloroethene Chlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Benzyl chloride Bromobenzene bis(2-Chloroisopropyl)-	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	$\begin{array}{c} 1.1\\ 6.0\\ 9.0\\ 0.60\\ 3.0\\ 2.0\\ 5.0\\ 0.70\\ 0.40\\ 0.50\\ 0.30\\ 0.50\\ 0.20\\ 0.60\\ 0.50\\ 0.50\\ 2.0\\ 0.60\\ 0.50\\ 0.50\\ 1.4\\ 0.40\\ 1.2\\ 1.0\\ 0.50\\ 0.50\\ 0.50\\ 6.8\\ 5.0\end{array}$
ether 1-Chlorohexane 4-Chlorotoluene Dibromomethane 1,1,1,2-Tetrachloroethane 1,2,3-Trichloropropane	ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 23 5.0 5.0 5.0



METHOD BLANK REPORT Volatile Organics by GC (cont.)

Analyte	Result	Units	Reporting Limit
Test: 601-AFIR-A Matrix: AQUEOUS QC Lot: 21 MAR 91-F9 QC Run:	21 MAR 91-F9		
Chloromethane Bromomethane Dichlorodifluoromethane Vinyl chloride Chloroethane Methylene chloride Trichlorofluoromethane 1,1-Dichloroethene 1,1-Dichloroethane trans-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Carbon tetrachloride Bromodichloromethane 1,2-Dichloropropane trans-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane 2-Chloroethyl vinyl ether Bromoform 1,1,2,2-Tetrachloroethane Tetrachloroethene Chlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Benzyl chloride Bromobenzene bis(2-Chloroisopropyl)-		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	$\begin{array}{c} 1.1\\ 6.0\\ 9.0\\ 0.60\\ 3.0\\ 2.0\\ 5.0\\ 0.70\\ 0.40\\ 0.50\\ 0.30\\ 0.50\\ 0.20\\ 0.60\\ 0.50\\ 0.50\\ 0.60\\ 0.50\\ 0.60\\ 0.20\\ 5.5\\ 1.0\\ 1.4\\ 0.40\\ 1.2\\ 1.0\\ 0.50\\ 0.50\\ 6.8\\ 5.0\end{array}$
ether 1-Chlorohexane 4-Chlorotoluene Dibromomethane 1,1,1,2-Tetrachloroethane 1,2,3-Trichloropropane	ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 23 5.0 5.0 5.0



METHOD BLANK REPORT Volatile Organics by GC (cont.)

Analyte	Result	Units	Reporting Limit
Test: 601-AFIR-2-A Matrix: AQUEOUS QC Lot: 21 MAR 91-F9 QC Run:	21 MAR 91-F9		
Chloromethane Bromomethane Dichlorodifluoromethane Vinyl chloride Chloroethane Methylene chloride Trichlorofluoromethane 1,1-Dichloroethene 1,1-Dichloroethane trans-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane 2-Chloroethyl vinyl ether Bromoform 1,1,2,2-Tetrachloroethane Tetrachloroethene Chlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene benzyl chloride Bromobenzene bis(2-Chloroisopropyl)-	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	$\begin{array}{c} 1.1\\ 6.0\\ 9.0\\ 0.60\\ 3.0\\ 2.0\\ 5.0\\ 0.70\\ 0.40\\ 0.50\\ 0.30\\ 0.50\\ 0.20\\ 0.60\\ 0.50\\ 0.50\\ 0.50\\ 0.60\\ 0.60\\ 0.20\\ 5.5\\ 1.0\\ 1.4\\ 0.40\\ 1.2\\ 1.0\\ 0.50\\ 0.50\\ 6.8\\ 5.0\end{array}$
ether 1-Chlorohexane 4-Chlorotoluene Dibromomethane 1,1,1,2-Tetrachloroethane 1,2,3-Trichloropropane	ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 23 5.0 5.0 5.0



### QC LOT ASSIGNMENT REPORT Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
013918-0001-SA 013918-0002-SA	AQUEOUS AQUEOUS	NO3-A NO3-A	21 MAR 91-A 21 MAR 91-A	-
013918-0003-SA 013918-0004-SA	AQUEOUS	NO3-A NO3-A	21 MAR 91-A 21 MAR 91-A	-

DUPLICATE CONTROL SAMPLE REPORT Wet Chemistry Analysis and Preparation

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_		Conc	entration	1		Acc	uracy	Precis	ion
Analyte		Spiked	DCS1	Measured DCS2	AVG	Aver DCS	age(%) Limits	(RPD) DCS Li	mit
Category: NO3-A Matrix: AQUEOUS QC Lot: 21 MAR 91-A Concentration Units:	mg/L								
Nitrate as N		5.4	5.58	5.70	5.64	104	91-109	2.1	10

Enseco A Corning Company

Calculations are performed before rounding to avoid round-off errors in calculated results.

#### ENSECO ANALYTICAL SERVICES REQUEST FORM

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ENSEC	O ANALYTICAL SERVICES R	EQUEST FORM	13918-01
Special Handling (Circle as appropria explain in record 5 azardous material	ite and )	SW - Surface Water GW - Ground Water ME - Meteorological	rcie one) LK - Lake ES - Estuary SP - Spring
EQUIPMENT BLANK	Field ID K1	RTLAND AFB	SS - Special Source
MVM WK0 3-2 Station Name	USGS/WRD/NEW_MEX Field Office	Project Collector	_ <u>(505)_262-534</u> 1 Phone (FTS)
File Deposition *	Sample identification		
Sircle one)	A cadiula		
Q - WATSTORE X - Lab File	KAFB 03-2	463	536001
For Laboratory Use Only	Station ID or Unique	P. Numper* P.	roject Account #
0.3. 0.8. 0.9	53	N. M. 0.3	5. 0.0.1.
Year* Month* Dav* Tir Begin Date	ne* Month Day Composite End Da	Time State District Code* User Cod	/ County le* Code
	Analysis level codes and sch	edules	
6	Hor 9 9	9	9
Sample Geologic	Analysis Analysis H	vrcologic Sample Hvor	OIOĢIC
	SHRONUM HEXAVALENT	THROMAN H	
ARAMETER: CHRONULL TOTAL	CHROTHUA, DISS TO TAL	DISSOLVED NITRATE	+ NITRITE
METHOD: SWACZO/SWATTY	x 3003/300 741 750 F/76	E35.	3.2
ARAMETER: URANIUM GROSS ALTHA &	GROSS BETA VOX	TRE, TOX MA	REGLYCERING PETTY
METHOD: <u>A7118</u> , E 900		, Switch Swijozo the	ATHAMA
'ARAMETER:			
PROJECT NAME KIRTLAND AFB-1	Chain-of-Custody Record RP, SWMU'S PROJECT	rd NO. <u>463536001</u> P.O.	NO
Relinquishea by: (Signature)	Received by: (Signati	ure Date	Time
mitro Roybal	FEDERAL EXPRESS	3/8/9	1 1410
Relinquished by: (Signature)	Received by: (Signain	ure) Date	Time
Relinquished by: (Signature)	Received at lab by: (	Signature) Date	Time
	Walas KMA	L 03-09-	91 0800
Relinquished from iab by: (Signatu	re) Received by: (Signaii	ire) Date	Time
Com	monte (Only 50 characters stor	red in NWIS)	
S - FOULPMENT			
<u>1</u>			
Record 6			
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	······································		
fotal number of sample bottles for this re	quest:	SHIP TO: Enseco-Rocky Mo 4955 Yarrow Stre	ountain Analytical et
		Arvada, CO 8000 (303) 421-6611 LINDSAY BRE	2 YER

### ENSECO ANALYTICAL SERVICES REQUEST FORM

	ENSECO ANA	ALYTICAL SERVICES REQU	JEST FORM		13918-0
Special Handling	(Circle as appropriate and explain in record 5)		SW - Surface Wa GW- Ground Wa	ter LK	one) ( • Lake - Estuary
SAMPLE			ME · Meteorolog	ical SP	- Spring
4VHWK04-2		USGS/WRD/NEW MEX KIRTLA	AND AFB	DAM (	- Special Source
Statio	n Name	Field Office Prop	ect Coll	lector	Phone (FTS)
ile Deposition*		Sample identification			
O - WATSTORE	M	VMWKQUQ			
X - Lab File		A 5-8 04-2		4635	3 6 0 0 1
	For Laboratory Use Only	Station ID or Unique Num	iber*	Project	Account #
1.9.9.1. 0.3	08 1135	03 08 11	4-5 <u>N M</u>	0.3.5	0.0.1
Year* Month Be	• Dav• Time•	Month Day Tin Composite End Date	ne State Co <b>de*</b>	District/ User Code*	County Code
	Anni		100		
6			1 <b>625</b>	٩	
Sampi		naivsis Anaivsis myrddi	ogic Samore		
Medium	unit Si	tatus'' Source'' Conditio	CHROMIUM	Event	
ARAMETER: CH	ROMININ TOTAL CHROM	HENAVILENT	MEXAMENT DISCOLVED	NITRATE + N	ITRITE )
AETHOD: SW3	1020/SW7191 SW3003	5/SW FITH SW FITS	SW7190	E353.2	
ARAMETER:			NON TOX		
	ANIUM GROSS ACTION & GROSS &	ETA VOX	5W 400 5W 9020	UTSAT	ANA A
	FII B E TOU	54 50 30/ 54 80/0	EASI		
PARAMETER:					
PROJECT NAME	KIRTLAND AFB-IRP, S	Chain-of-Custody Record	463536001	P.O. NO	
Relinguished by:	(Signature)	Received by: (Signature)		Date	Time
milio Ro	ybal	FEDERAL EXPRESS		3/8/91	1410
Relinquished by:	(Signature)	Received by: (Signature)		Date	Time
Relinquished by:	(Signature)	Received at lab by: (Sign	ature)	Date	Time
		Alatat RMAL		03-08-9	1 0800
Relinquished from	m iab by: (Signature)	Received by: (Signature)		Date	Time
		( <b>0 1 7 0 1 1 1 1 1 1 1 1 1 1</b>			
	Comments	(Only 50 characters stored i	n NWIS)		
ecord 5 <u>MOUN</u>	TAIN VIE	W. MONITORI	NGWE	LL - N	1 1 1 1
- L <u></u>					<u> </u>
ecord 6	<u></u>		<u> </u>	1	<u> </u>
L I I	<u> </u>	<u></u>	······		<u></u> _
			IID TO:		
otal number of samp	le bottles for this request:	<u></u>	ur IU:	Docky Mount	ain Analytical
			4955 Ya	rrow Street	anı Analytical
•			Arvada,	CO 80002	
			(303) 42	1-6611	
			L. 493		

### ENSECO ANALYTICAL SERVICES REQUEST FORM

ENS	ECO ANALYTICAL SERVICES	S REQUEST FORM	139/8-03
Special Handling (Circle as approp explain in record azardous material AMBIENT COND BLANK <u>YVM WK 05-2</u> Station Name	Field ID USGS/WRD/NEW_MEX Field Office	Site SW - Surface Wat GW - Ground Wat ME - Meteorologi KIRTLAND AFB IRP-SWMU'S BILL Project Colle	Type (circle one) er LK - Lake er ES - Estuary cal SP - Spring SS - Special Source DAM (505) 262-5341 ector Phone (FTS)
File Deposition*	Sample identificat	ion	
	HUMWK	-	
X - Lab File	KAEB 05-	- 2	46353,600.1
For Laboratory Use Or	ily Station ID or Ur	nique Number*	Project Account #
<u>1.9.9.1</u> <u>0.3</u> <u>0.8</u> <u>1</u> Year Month Day	Time Month Day	Time State	0.3.5.0.0.1. Cistrict/ County
Begin Date	Composite En	d Date Code	Oser Code Code
	Analysis level codes and	schedules	
6	(H) or 9 9	9	9
Samole Geologic Medium** Unit	Status** Source**	Hyroologic Samole Condition** Type**	Event **
ARAMETER . CHRONIUM TOTAL	CHROMIUM 2155 CHROMIU	LENT CHROMIUM	NITRATE + NITRITE
METHOD. SW3020/SW4491	SW2005/SW7191 SW	26 SW N96	E353.2
PARAMETER:			
METHOD: A ZUR	E GROSS BETA VOX	5010 500 500 9020	ILSA TAMA
		EXIS.	
PROJECT NAME_KIRTLAND AFB	Chain-of-Custody Re -IRP, SWMU'S PROJE	CT NO. 463536001	P.O. NO
Relinquishea by: (Signature)	Received by: (Sign	nature (	Date Time
miho Roybal	FEDERAL EXPRESS		3/8/91 1410
Relinquisned by: (Signature)	Received by: (Sign	iature)	Date l'ime
Relinquished by: (Signature)	Received at lab by	y: (Signature)	Date Time
	Wator RMF		02-09-91 0800
Relinquished from lab by: (Signa	ziure) Received by: (Sign	ialure)	Date Time
Co	mments (Only 50 characters :	stored in NWIS)	
Record 5 AMBIENT C.	ONDITION B	LANK	<u></u>
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Record 6		مغيما للمراجع والمحالي	
Land the second s	- to the track of and	and the second	·····
	4	SHIP TO-	
otal number of sample bottles for this	request:	Enseco-R 4955 Yar Arvada. ( (303) 421	ocky Mountain Analytical row Street CO 80002 -6611

ENSECO ANALYTICAI	. SERVICES	REQUEST	FORM
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pecial Handling 🔵	(Circle as appropriate and	i		Site	Type (circle	one)
	explain in record 5)		SW - S	urface Wa	ter Lk	( · Lake
azardous materiai			ME M	leteoroico	icai SP	- Estuary
TRIP BLANK	~	Field ID	IRTLAND AFB		SS	Special Source
MVMWK06-	2	USGS/WRD/NEW MEX	TRP-SWMU'S	BILL	DAM	(505) 262-53
Statio	n Name	Field Office	Project	Coll	lector	Phone (FTS)
ile Deposition*		Sample identification	n			
Q - WATSTORE		YVMWKOF-	Z			
X - Lab File	For Laboratory Use Only	Station ID or Unit	aue Numper *	<u> </u>	Project	3 6 0 0 1
• • 1 • 3	n8 0755			м м	035	0 0 1
Year" Month	· Day · Time ·	Month Day	Time	State	District/	County
Be	egin Date	Composite End	Date	Code*	User Code*	Code
	Anai	ysis level codes and s	chedules			
6	<u>(</u> +	) or 9 9		9	9	
Sampi Medium	e Geologic - Unit S	naivsis Anaivsis itatus** Source**	Condition**	Samole Type**	-varologia Event**	:
ARAMETER.	RONLING TOTAL CHROM	HRONIUM	AROMIU	ENT /	NITRATE + N	UTPITT
ETHOD SW3	0201507441 540300	5/5007191 SW7192	DISSOLVE SW719	<u>x</u>	E353.2	
APAMETER.						
	ANTUM GROSS ALAHA & GROSS	BETA VOX	796.7	0×19020	THEROG	LYCERING PETN
	HTB, EYOO	Sw3030/sw8	0/0 50000,	300000	~~~~	
ARAMETER:						
ARAMETER: ETHOD: PROJECT NAME	KIRTLAND AFB-IRP, S	Chain-of-Custody Rec	cord CT NO. 46353	6001	P.O. NO	
ARAMETER: ETHOD: PROJECT NAME	KIRTLAND AFB-IRP, S	Chain-of-Custody Rec SWMU'S PROJEC	cord CT NO. 46353	6001	P.O. NO	 Time
PROJECT NAME Relinquished by:	KIRTLAND AFB-IRP, S (Signature)	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signa EEDERAL EXPRESS	cord CT NO. <u>46353</u>	6001	P.O. NO Date 3/8/91	Time 1410
ARAMETER: ETHOD: PROJECT NAME Relinquished by: Relinquished by	KIRTLAND AFB-IRP, S (Signature) Yha (Signature)	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signa FEDERAL EXPRESS Received by: (Signa	cord CT NO. 46353 ature )	6001 _:	P.O. NO Date 3/8/91 Date	Time 1410 Time
ARAMETER: ETHOD: PROJECT NAME Relinquished by: Relinquished by:	KIRTLAND AFB-IRP, S (Signature) (Signature)	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signa FEDERAL EXPRESS Received by: (Signa	cord CT NO. <u>46353</u> ature ) ature )	6001 	P.O. NO Date 3/8/91 Date	Time 1410 Time
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ARAMETER: ETHOD: PROJECT NAME Relinquished by: Relinquished by: Relinquished from	KIRTLAND AFB-IRP, S (Signature) (Signature) (Signature) m lab by: (Signature)	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signo FEDERAL EXPRESS Received by: (Signo Received at lab by: Mark Ar Received by: (Signo	cord CT NO. <u>46353</u> ature ) ature ) : (Signature) MA(	6001	P.O. NO Date 3/8/91 Date Date 62-09-91 Date	Time 1410 Time Time 0800 Time
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ARAMETER: ETHOD: PROJECT NAME Relinquished by: Relinquished by: Relinquished by: Relinquished from	KIRTLAND AFB-IRP, S (Signature) (Signature) (Signature) m lab by: (Signature) Comments P I ANIK	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signa FEDERAL EXPRESS Received by: (Signa Received at lab by: Received by: (Signa Received by: (Signa	cord CT NO. 46353 ature) ature) (Signature) nA( ature) tored in NWIS	6001 	P.O. NO Date 3/8/91 Date Date 63-09-91 Date	Time /4/0 Time Time 0800 Time
PROJECT NAME PROJECT NAME Relinquished by: Relinquished by: Relinquished from Relinquished from	KIRTLAND AFB-IRP, S (Signature) (Signature) (Signature) m lab by: (Signature) Comments P. B. LANK	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signo FEDERAL EXPRESS Received by: (Signo Received by: (Signo Received by: (Signo Received by: (Signo	cord CT NO. 46353 ature () ature () CT Signature () A() tored in NWIS()	6001 	P.O. NO Date 3/8/91 Date Date 62-09-91 Date	Time 1410 Time Time 0800 Time
PROJECT NAME PROJECT NAME Relinquished by: Multor Ac Relinquished by: Relinquished from cord 5 T.R.L.1	KIRTLAND AFB-IRP, S (Signature) (Signature) (Signature) m lab by: (Signature) Comments P B. LA. N. K.	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signa FEDERAL EXPRESS Received by: (Signa Received by: (Signa Received by: (Signa (Only 50 characters st	cord CT NO. 46353 ature () ature () ature () CT NO. 46353 ature () ature () ature () tored in NWIS	6001 	P.O. NO Date 3/8-/91 Date Date 63-09-91 Date	Time /4/0 Time Time 0800 Time
ARAMETER: ETHOD: PROJECT NAME Relinquished by: Mabor Ag Relinquished by: Relinquished by: Relinquished from	KIRTLAND AFB-IRP, S (Signature) (Signature) (Signature) m lab by: (Signature) Comments P. B. L.A. N. K.	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signa FEDERAL EXPRESS Received by: (Signa Received at lab by: Received by: (Signa (Only 50 characters st	cord CT NO. 46353 ature) ature) (Signature) (Signature) hA() tored in NWIS	6001 	P.O. NO Date 3/8/91 Date Date 32-991 Date	Time /4/0 Time 7 Time 0800 Time
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ARAMETER: ETHOD: PROJECT NAME Relinquished by: Relinquished by: Relinquished by: cord 5 T.R.L.I cord 6	KIRTLAND AFB-IRP, S (Signature) (Signature) (Signature) m lab by: (Signature) Comments P. B. L.A. N. K.	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signa FEDERAL EXPRESS Received by: (Signa Received at lab by: Market Arrived by: (Signa (Only 50 characters st	cerd CT NO. <u>46353</u> ature ) ature ) (Signature ) hAC ature ) tored in NWIS	6001 	$\frac{P.O. NO}{Date}$ $\frac{Date}{GI - OI - II}$ $Date$	Time /4/0 Time Time 0800 Time
PROJECT NAME PROJECT NAME Relinquished by: Maker Ag Relinquished by: Relinquished by: cord 5 T.R.L.1 cord 6	KIRTLAND AFB-IRP, S (Signature) (Signature) (Signature) m lab by: (Signature) Comments P. B. L.A. N. K.	Chain-of-Custody Rec SWMU'S PROJEC Received by: (Signa FEDERAL EXPRESS Received by: (Signa Received at lab by: AA Received by: (Signa (Only 50 characters st	cord CT NO. 46353 ature ) ature ) c (Signature) nA (	6001 	$\frac{P.O. NO}{Date}$ $\frac{B/8/91}{Date}$ $\frac{B}{2} - \frac{9}{2} - \frac{9}{2}$	Time /4/0 Time Time 0800 Time

(303) 421-6611 LINDSAY BREYER