SOLAR EVAPORATION PONDS

CLOSURE PLAN

U.S. DEPARTMENT OF ENERGY
ROCKY FLATS PLANT
GOLDEN, COLORADO

JULY 1, 1988

VOL. IV

ROCKWELL INTERNATIONAL
NORTH AMERICAN SPACE OPERATIONS
ROCKY FLATS PLANT

REVIEWED FOR CLASSIFICATION/UCNI
By F. J. Curran
Date 4-3-91

APPENDIX C

ANALYTICAL CHEMISTRY

This appendix contains analytical results for core samples, ground water, surface water, and sediment samples collected in 1986, 1987, and first quarter 1988 when available for the Solar Ponds Area. The enclosed data are presented in the following order:

Appendix C-1: Soils Analytical Data
- Volatile Organics
- Semi-Volatiles
- Pesticide/PCBs
- Radionuclides
- Inorganics
- Metals

Appendix C-2: Ground-water Analytical Data Alluvial Wells
- Volatile Organics
- Radionuclides
- Inorganics
- Metals

Appendix C-3: Ground-water Analytical Data Bedrock Wells
- Volatile Organics
- Radionuclides
- Inorganics
- Metals

Appendix C-4: Surface Water Analytical Data
- Volatile Organics
- Semi-Volatiles
- Pesticide/PCBs
- Radionuclides
- Inorganics
- Metals

Appendix C-5: Sediment Analytical Data
- Volatile Organics
- Semi-Volatiles
- Pesticide/PCBs
- Radionuclides
- Inorganics
- Metals

APPENDIX C-1

SOILS ANALYTICAL DATA

VOLATILE ORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
BH87-881-010	SP018700FS	
BH87-881-011	SP018704DH	
BH87-881-012	SP018705DH	
BH87-881-001	SP018711DH	
BH87-881-007	SP018713DH	
BH87-881-015	SP018716BR	
BH87-881-016	SP018721DH	
BH87-881-017	SP018723DH	
BH87-881-004	SP028711CT	
8710-073-0110	SP038703FS	-11
BH87-881-002	SP038711DH	
BH87-881-008	SP038713CT	
BH87-881-009	SP038716BR	
BH87-881-020	SP0487004D	
BH87-881-018	SP048702DH	
BH87-881-019	SP048704DH	
BH87-881-021	SP048707DH	
BH87-881-025	SP048710DH	
BH87-881-026	SP048712DH	
BH87-881-027	SP048715FS	
BH87-881-028	SP048717DH	
BH87-881-029	SP048720DH	
BH87-881-030	SP048722DH	
BH87-881-031	SP048725DH	
BH87-881-032	SP048727DH	
BH87-881-033	SP048730DH	
BH87-881-044	SP048732DH	
BH87-881-053	SP058700DH	
BH87-881-054	SP058702DH	
BH87-881-055	SP058704DH	
BH87-881-056	SP058707DH	
BH87-881-035	SP068702FS	
BH87-881-036	SP068708DH	
BH87-881-037	SP068711DH	
BH87-881-038	SP068713DH	
BH87-881-039	SP068716DH	
BH87-881-040	SP068718DH	
BH87-881-041	SP068721DH	
BH87-881-042	SP068724DH	
BH87-881-043	SP068726DH	
BH87-881-013	SP088706CT	
BH87-881-014	SP088709BR	
BH87-881-023	SP098706CT	
BH87-881-024	SP098708BR	
BH87-881-045	SP11870008	
BH87-881-034	SP118708DH	
BH87-881-046	SP118711DH	
BH87-881-047	SP118714DH	
BH87-881-048	SP118716DH	
BH87-881-049	SP118719DH	
BH87-881-050	SP118721DH	

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
BH87-881-051	SP118724DH	
BH87-881-052	SP118726DH	

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-010	BH87-881-011	BH87-881-012	BH87-881-001
Customer ID:	SP018700FS	SP018704DH	SP018705DH	SP018711DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	90 %	88 %	0 %	0 %
Bromofluorobenzene:	110 %	130 %	0 %	122 %
1,2-Dichloroethane-d4:	118 %	112 %	0 %	118 %

Analytes

Chloromethane.....	50 U	50 U	50 U	50 U
Bromomethane.....	50 U	50 U	50 U	50 U
Vinyl Chloride.....	50 U	50 U	50 U	50 U
Chloroethane.....	50 U	50 U	50 U	50 U
Methylene Chloride.....	25 U	25 U	25 U	25 U
Acetone.....	50 U	50 U	50 U	50 U
Carbon Disulfide.....	25 U	25 U	25 U	25 U
1,1-Dichloroethene.....	25 U	25 U	25 U	25 U
1,1-Dichloroethane.....	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene.....	25 U	25 U	25 U	25 U
Chloroform.....	25 U	6 J	25 U	25 U
1,2-Dichloroethane.....	25 U	25 U	25 U	25 U
2-Butanone.....	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane.....	25 U	25 U	25 U	25 U
Carbon Tetrachloride.....	25 U	25 U	25 U	25 U
Vinyl Acetate.....	50 U	50 U	50 U	50 U
Bromodichloromethane.....	25 U	25 U	25 U	25 U
1,2-Dichloropropane.....	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
Trichloroethene.....	25 U	25 U	25 U	25 U
Dibromochloromethane.....	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane.....	25 U	25 U	25 U	25 U
Benzene.....	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
2-Chloroethylvinylether.....	50 U	50 U	50 U	50 U
Bromoform.....	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone.....	50 U	50 U	50 U	50 U
2-Hexanone.....	50 U	50 U	50 U	50 U
Tetrachloroethene.....	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane.....	25 U	25 U	25 U	25 U
Toluene.....	25 U	25 U	25 U	25 U
Chlorobenzene.....	25 U	25 U	25 U	25 U
Ethylbenzene.....	25 U	25 U	25 U	25 U
Styrene.....	25 U	25 U	25 U	25 U
Total Xylenes.....	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-007	BH87-881-015	BH87-881-016	BH87-881-017
Customer ID:	SP018713DH	SP018716BR	SP018721DH	SP018723DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	0 %	84 %	78 %	84 %
Bromofluorobenzene:	0 %	126 %	126 %	130 %
1,2-Dichloroethane-d4:	114 %	104 %	118 %	112 %

Analytes

Chloromethane	50 U	50 U	50 U	50 U
Bromomethane	50 U	50 U	50 U	50 U
Vinyl Chloride	50 U	50 U	50 U	50 U
Chloroethane	50 U	50 U	50 U	50 U
Methylene Chloride	25 U	25 U	25 U	25 U
Acetone	50 U	50 U	50 U	50 U
Carbon Disulfide	25 U	25 U	25 U	25 U
1,1-Dichloroethene	25 U	25 U	25 U	25 U
1,1-Dichloroethane	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene	25 U	25 U	25 U	25 U
Chloroform	6 J	25 U	25 U	25 U
1,2-Dichloroethane	25 U	25 U	25 U	25 U
2-Butanone	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane	25 U	25 U	25 U	25 U
Carbon Tetrachloride	25 U	25 U	25 U	25 U
Vinyl Acetate	50 U	50 U	50 U	50 U
Bromodichloromethane	25 U	25 U	25 U	25 U
1,2-Dichloropropane	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene	25 U	25 U	25 U	25 U
Trichloroethene	25 U	25 U	25 U	25 U
Dibromochloromethane	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane	25 U	25 U	25 U	25 U
Benzene	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	25 U
2-Chloroethylvinylether	50 U	50 U	50 U	50 U
Bromoform	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	50 U	50 U	50 U	50 U
2-Hexanone	50 U	50 U	50 U	50 U
Tetrachloroethene	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	25 U
Toluene	25 U	25 U	25 U	25 U
Chlorobenzene	25 U	25 U	25 U	25 U
Ethylbenzene	25 U	25 U	25 U	25 U
Styrene	25 U	25 U	25 U	25 U
Total Xylenes	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-004	8710-073-0110	BH87-881-002	BH87-881-008
Customer ID:	SP028711CT	SP038703FS	SP038711DH	SP038713CT
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	5.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	88 %	103 %	0 %	84 %
Bromofluorobenzene:	130 %	100 %	0 %	132 %
1,2-Dichloroethane-d4:	120 %	96 %	0 %	120 %

Analytes

Chloromethane.....	50 U	50.00 U	50 U	50 U
Bromomethane.....	50 U	50.00 U	50 U	50 U
Vinyl Chloride.....	50 U	50.00 U	50 U	50 U
Chloroethane.....	50 U	50.00 U	50 U	50 U
Methylene Chloride.....	25 U	18.00 JB	25 U	18 J
Acetone.....	50 U	50.00 U	50 U	50 U
Carbon Disulfide.....	25 U	25.00 U	25 U	25 U
1,1-Dichloroethene.....	25 U	25.00 U	25 U	25 U
1,1-Dichloroethane.....	25 U	25.00 U	25 U	25 U
Trans-1,2-Dichloroethene.....	25 U	25.00 U	25 U	25 U
Chloroform.....	10 J	25.00 U	25 U	25 U
1,2-Dichloroethane.....	25 U	25.00 U	25 U	25 U
2-Butanone.....	50 U	50.00 U	50 U	50 U
1,1,1-Trichloroethane.....	25 U	25.00 U	25 U	25 U
Carbon Tetrachloride.....	25 U	25.00 U	25 U	25 U
Vinyl Acetate.....	50 U	50.00 U	50 U	50 U
Bromodichloromethane.....	25 U	25.00 U	25 U	25 U
1,2-Dichloropropane.....	25 U	25.00 U	25 U	25 U
Trans-1,3-Dichloropropene.....	25 U	25.00 U	25 U	25 U
Trichloroethene.....	25 U	8.00 JB	25 U	25 U
Dibromochloromethane.....	25 U	25.00 U	25 U	25 U
1,1,2-Trichloroethane.....	25 U	25.00 U	25 U	25 U
Benzene.....	25 U	25.00 U	25 U	25 U
cis-1,3-Dichloropropene.....	25 U	25.00 U	25 U	25 U
2-Chloroethylvinylether.....	50 U	50.00 U	50 U	50 U
Bromoform.....	25 U	25.00 U	25 U	25 U
4-Methyl-2-pentanone.....	50 U	50.00 U	50 U	50 U
2-Hexanone.....	50 U	50.00 U	50 U	50 U
Tetrachloroethene.....	25 U	25.00 U	25 U	25 U
1,1,2,2-Tetrachloroethane.....	25 U	25.00 U	25 U	25 U
Toluene.....	25 U	25.00 U	25 U	25 U
Chlorobenzene.....	25 U	25.00 U	25 U	25 U
Ethylbenzene.....	25 U	25.00 U	25 U	25 U
Styrene.....	25 U	25.00 U	25 U	25 U
Total Xylenes.....	25 U	25.00 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-009	BH87-881-020	BH87-881-018	BH87-881-019
Customer ID:	SP038716BR	SP0487004D	SP048702DH	SP048704DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	88 %	84 %	94 %	86 %
Bromofluorobenzene:	130 %	130 %	116 %	120 %
1,2-Dichloroethane-d4:	118 %	118 %	114 %	120 %

Analytes

Chloromethane.....	50 U	50 U	50 U	50 U
Bromomethane.....	50 U	50 U	50 U	50 U
Vinyl Chloride.....	50 U	50 U	50 U	50 U
Chloroethane.....	50 U	50 U	50 U	50 U
Methylene Chloride.....	25 U	25 U	25 U	25 U
Acetone.....	50 U	50 U	50 U	50 U
Carbon Disulfide.....	25 U	25 U	25 U	25 U
1,1-Dichloroethene.....	25 U	25 U	25 U	25 U
1,1-Dichloroethane.....	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene.....	25 U	25 U	25 U	25 U
Chloroform.....	5 J	25 U	25 U	25 U
1,2-Dichloroethane.....	25 U	25 U	25 U	25 U
2-Butanone.....	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane.....	25 U	25 U	25 U	25 U
Carbon Tetrachloride.....	25 U	25 U	25 U	25 U
Vinyl Acetate.....	50 U	50 U	50 U	50 U
Bromodichloromethane.....	25 U	25 U	25 U	25 U
1,2-Dichloropropane.....	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
Trichloroethene.....	25 U	25 U	25 U	25 U
Dibromochloromethane.....	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane.....	25 U	25 U	25 U	25 U
Benzene.....	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
2-Chloroethylvinylether.....	50 U	50 U	50 U	50 U
Bromoform.....	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone.....	50 U	50 U	50 U	50 U
2-Hexanone.....	50 U	50 U	50 U	50 U
Tetrachloroethene.....	25 U	25 U	10 J	25 U
1,1,2,2-Tetrachloroethane.....	25 U	25 U	25 U	25 U
Toluene.....	25 U	25 U	25 U	25 U
Chlorobenzene.....	25 U	25 U	25 U	25 U
Ethylbenzene.....	25 U	25 U	25 U	25 U
Styrene.....	25 U	25 U	25 U	25 U
Total Xylenes.....	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-021	BH87-881-025	BH87-881-026	BH87-881-027
Customer ID:	SP048707DH	SP048710DH	SP048712DH	SP048715FS
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	84 %	82 %	80 %	86 %
Bromofluorobenzene:	128 %	134 %	134 %	126 %
1,2-Dichloroethane-d4:	122 %	126 %	122 %	120 %

Analytes

Chloromethane.....	50 U	50 U	50 U	50 U
Bromomethane.....	50 U	50 U	50 U	50 U
Vinyl Chloride.....	50 U	50 U	50 U	50 U
Chloroethane.....	50 U	50 U	50 U	50 U
Methylene Chloride.....	25 U	25 U	25 U	25 U
Acetone.....	50 U	50 U	50 U	50 U
Carbon Disulfide.....	25 U	25 U	25 U	25 U
1,1-Dichloroethene.....	25 U	25 U	25 U	25 U
1,1-Dichloroethane.....	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene.....	25 U	25 U	25 U	25 U
Chloroform.....	25 U	11 J	10 J	25 U
1,2-Dichloroethane.....	25 U	25 U	25 U	25 U
2-Butanone.....	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane.....	25 U	25 U	25 U	25 U
Carbon Tetrachloride.....	25 U	25 U	25 U	25 U
Vinyl Acetate.....	50 U	50 U	50 U	50 U
Bromodichloromethane.....	25 U	25 U	25 U	25 U
1,2-Dichloropropane.....	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
Trichloroethene.....	25 U	25 U	25 U	25 U
Dibromochloromethane.....	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane.....	25 U	25 U	25 U	25 U
Benzene.....	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
2-Chloroethylvinylether.....	50 U	50 U	50 U	50 U
Bromoform.....	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone.....	50 U	50 U	50 U	50 U
2-Hexanone.....	50 U	50 U	50 U	50 U
Tetrachloroethene.....	25 U	25 U	23 J	25 U
1,1,2,2-Tetrachloroethane.....	25 U	25 U	25 U	25 U
Toluene.....	25 U	25 U	25 U	25 U
Chlorobenzene.....	25 U	25 U	25 U	25 U
Ethylbenzene.....	25 U	25 U	25 U	25 U
Styrene.....	25 U	25 U	25 U	25 U
Total Xylenes.....	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-028	BH87-881-029	BH87-881-030	BH87-881-031
Customer ID:	SP048717DH	SP048720DH	SP048722DH	SP048725DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	80 %	86 %	80 %	82 %
Bromofluorobenzene:	132 %	136 %	134 %	136 %
1,2-Dichloroethane-d4:	126 %	122 %	126 %	120 %

Analytes

Chloromethane	50 U	50 U	50 U	50 U
Bromomethane	50 U	50 U	50 U	50 U
Vinyl Chloride	50 U	50 U	50 U	50 U
Chloroethane	50 U	50 U	50 U	50 U
Methylene Chloride	25 U	25 U	25 U	25 U
Acetone	50 U	50 U	50 U	50 U
Carbon Disulfide	25 U	25 U	25 U	25 U
1,1-Dichloroethene	25 U	25 U	25 U	25 U
1,1-Dichloroethane	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene	25 U	25 U	25 U	25 U
Chloroform	25 U	25 U	25 U	25 U
1,2-Dichloroethane	25 U	25 U	25 U	25 U
2-Butanone	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane	25 U	25 U	25 U	25 U
Carbon Tetrachloride	25 U	25 U	25 U	25 U
Vinyl Acetate	50 U	50 U	50 U	50 U
Bromodichloromethane	25 U	25 U	25 U	25 U
1,2-Dichloropropane	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene	25 U	25 U	25 U	25 U
Trichloroethene	25 U	25 U	25 U	25 U
Dibromochloromethane	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane	25 U	25 U	25 U	25 U
Benzene	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	25 U
2-Chloroethylvinylether	50 U	50 U	50 U	50 U
Bromoform	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	50 U	50 U	50 U	50 U
2-Hexanone	50 U	50 U	50 U	50 U
Tetrachloroethene	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	25 U
Toluene	25 U	25 U	25 U	25 U
Chlorobenzene	25 U	25 U	25 U	25 U
Ethylbenzene	25 U	25 U	25 U	25 U
Styrene	25 U	25 U	25 U	25 U
Total Xylenes	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-032	BH87-881-033	BH87-881-044	BH87-881-053
Customer ID:	SP048727DH	SP048730DH	SP048732DH	SP058700DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0-	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	84 %	82 %	70.4 %	72 %
Bromofluorobenzene:	130 %	126 %	68.8 %	72 %
1,2-Dichloroethane-d4:	124 %	122 %	61 %	57.6 %

Analytes

Chloromethane.....	50 U	50 U	50 U	50 U
Bromomethane.....	50 U	50 U	50 U	50 U
Vinyl Chloride.....	50 U	50 U	50 U	50 U
Chloroethane.....	50 U	50 U	50 U	50 U
Methylene Chloride.....	25 U	25 U	25 U	25 U
Acetone.....	50 U	50 U	50 U	50 U
Carbon Disulfide.....	25 U	25 U	25 U	25 U
1,1-Dichloroethene.....	25 U	25 U	25 U	25 U
1,1-Dichloroethane.....	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene.....	25 U	25 U	25 U	25 U
Chloroform.....	25 U	25 U	25 U	25 U
1,2-Dichloroethane.....	25 U	25 U	25 U	25 U
2-Butanone.....	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane.....	25 U	25 U	25 U	25 U
Carbon Tetrachloride.....	25 U	25 U	25 U	25 U
Vinyl Acetate.....	50 U	50 U	50 U	50 U
Bromodichloromethane.....	25 U	25 U	25 U	25 U
1,2-Dichloropropane.....	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
Trichloroethene.....	25 U	25 U	25 U	25 U
Dibromochloromethane.....	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane.....	25 U	25 U	25 U	25 U
Benzene.....	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
2-Chloroethylvinylether.....	50 U	50 U	50 U	50 U
Bromoform.....	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone.....	50 U	50 U	50 U	50 U
2-Hexanone.....	50 U	50 U	50 U	50 U
Tetrachloroethene.....	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane.....	25 U	25 U	25 U	25 U
Toluene.....	25 U	25 U	25 U	25 U
Chlorobenzene.....	25 U	25 U	25 U	25 U
Ethylbenzene.....	25 U	25 U	25 U	25 U
Styrene.....	25 U	25 U	25 U	25 U
Total Xylenes.....	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-054	BH87-881-055	BH87-881-056	BH87-881-035
Customer ID:	SP058702DH	SP058704DH	SP058707DH	SP068702FS
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	0.00 %	74 %	89.8 %	87.2 %
Bromofluorobenzene:	0.00 %	72 %	74 %	93.6 %
1,2-Dichloroethane-d4:	0.00 %	82 %	60 %	80 %

Analytes

Chloromethane	50 U	50 U	50 U	50 U
Bromomethane	50 U	50 U	50 U	50 U
Vinyl Chloride	50 U	50 U	50 U	50 U
Chloroethane	50 U	50 U	50 U	50 U
Methylene Chloride	25 U	25 U	25 U	6.4 J
Acetone	50 U	50 U	50 U	50 U
Carbon Disulfide	25 U	25 U	25 U	25 U
1,1-Dichloroethene	25 U	25 U	25 U	25 U
1,1-Dichloroethane	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene	25 U	25 U	25 U	25 U
Chloroform	25 U	25 U	25 U	25 U
1,2-Dichloroethane	25 U	25 U	25 U	25 U
2-Butanone	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane	25 U	25 U	25 U	25 U
Carbon Tetrachloride	25 U	25 U	25 U	25 U
Vinyl Acetate	50 U	50 U	50 U	50 U
Bromodichloromethane	25 U	25 U	25 U	25 U
1,2-Dichloropropane	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene	25 U	25 U	25 U	25 U
Trichloroethene	25 U	25 U	25 U	25 U
Dibromochloromethane	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane	25 U	25 U	25 U	25 U
Benzene	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	25 U
2-Chloroethylvinylether	50 U	50 U	50 U	50 U
Bromoform	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	50 U	50 U	50 U	50 U
2-Hexanone	50 U	50 U	50 U	50 U
Tetrachloroethene	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	25 U
Toluene	25 U	25 U	25 U	25 U
Chlorobenzene	25 U	25 U	25 U	25 U
Ethylbenzene	25 U	25 U	25 U	25 U
Styrene	25 U	25 U	25 U	25 U
Total Xylenes	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-036	BH87-881-037	BH87-881-038	BH87-881-039
Customer ID:	SP068708DH	SP068711DH	SP068713DH	SP068716DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	116 %	81.6 %	72.8 %	79.2 %
Bromofluorobenzene:	76.8 %	85.6 %	90.4 %	90.4 %
1,2-Dichloroethane-d4:	78.4 %	79.2 %	76.8 %	76.8 %

Analytes

Chloromethane	50 U	50 U	50 U	50 U
Bromomethane	50 U	50 U	50 U	50 U
Vinyl Chloride	50 U	50 U	50 U	50 U
Chloroethane	50 U	50 U	50 U	50 U
Methylene Chloride	52	25 U	25 U	25 U
Acetone	50 U	50 U	50 U	50 U
Carbon Disulfide	25 U	25 U	25 U	25 U
1,1-Dichloroethene	25 U	25 U	25 U	25 U
1,1-Dichloroethane	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene	25 U	25 U	25 U	25 U
Chloroform	25 U	25 U	25 U	25 U
1,2-Dichloroethane	25 U	25 U	25 U	25 U
2-Butanone	12 J	50 U	50 U	50 U
1,1,1-Trichloroethane	25 U	25 U	25 U	25 U
Carbon Tetrachloride	25 U	25 U	25 U	25 U
Vinyl Acetate	50 U	50 U	50 U	50 U
Bromodichloromethane	25 U	25 U	25 U	25 U
1,2-Dichloropropane	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene	25 U	25 U	25 U	25 U
Trichloroethene	25 U	25 U	25 U	25 U
Dibromochloromethane	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane	25 U	25 U	25 U	25 U
Benzene	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	25 U
2-Chloroethylvinylether	50 U	50 U	50 U	50 U
Bromoform	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	50 U	50 U	50 U	50 U
2-Hexanone	50 U	50 U	50 U	50 U
Tetrachloroethene	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	25 U
Toluene	25 U	25 U	25 U	25 U
Chlorobenzene	25 U	25 U	25 U	25 U
Ethylbenzene	25 U	25 U	25 U	25 U
Styrene	25 U	25 U	25 U	25 U
Total Xylenes	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	BH87-881-040	BH87-881-041	BH87-881-042	BH87-881-043
Customer ID:	SP068718DH	SP068721DH	SP068724DH	SP068726DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	77.6 %	92 %	77.6 %	79.2 %
Bromofluorobenzene:	88.8 %	88.8 %	0.00 %	94.4 %
1,2-Dichloroethane-d4:	76 %	77.6 %	79.2 %	77.6 %

Analytes

Chloromethane.....	50 U	50 U	50 U	50 U
Bromomethane.....	50 U	50 U	50 U	50 U
Vinyl Chloride.....	50 U	50 U	50 U	50 U
Chloroethane.....	50 U	50 U	50 U	50 U
Methylene Chloride.....	6.80 J	25 U	25 U	25 U
Acetone.....	50 U	50 U	50 U	50 U
Carbon Disulfide.....	25 U	25 U	25 U	25 U
1,1-Dichloroethene.....	25 U	25 U	25 U	25 U
1,1-Dichloroethane.....	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene.....	25 U	25 U	25 U	25 U
Chloroform.....	25 U	25 U	25 U	25 U
1,2-Dichloroethane.....	25 U	25 U	25 U	25 U
2-Butanone.....	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane.....	25 U	25 U	25 U	25 U
Carbon Tetrachloride.....	25 U	25 U	25 U	25 U
Vinyl Acetate.....	50 U	50 U	50 U	50 U
Bromodichloromethane.....	25 U	25 U	25 U	25 U
1,2-Dichloropropane.....	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
Trichloroethene.....	25 U	25 U	25 U	25 U
Dibromochloromethane.....	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane.....	25 U	25 U	25 U	25 U
Benzene.....	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene.....	25 U	25 U	25 U	25 U
2-Chloroethylvinylether.....	50 U	50 U	50 U	50 U
Bromoform.....	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone.....	50 U	50 U	50 U	50 U
2-Hexanone.....	50 U	50 U	50 U	50 U
Tetrachloroethene.....	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane.....	25 U	25 U	25 U	25 U
Toluene.....	25 U	25 U	25 U	25 U
Chlorobenzene.....	25 U	25 U	25 U	25 U
Ethylbenzene.....	25 U	25 U	25 U	25 U
Styrene.....	25 U	25 U	25 U	25 U
Total Xylenes.....	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	BH87-881-013	BH87-881-014	BH87-881-023	BH87-881-024
Customer ID:	SP088706CT	SP088709BR	SP098706CT	SP098708BR
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	0 %	98 %	82 %	88 %
Bromofluorobenzene:	0 %	106 %	124 %	126 %
1,2-Dichloroethane-d4:	0 %	124 %	122 %	120 %

Analytes

Chloromethane	50 U	50 U	50 U	50 U
Bromomethane	50 U	50 U	50 U	50 U
Vinyl Chloride	50 U	50 U	50 U	50 U
Chloroethane	50 U	50 U	50 U	50 U
Methylene Chloride	25 U	25 U	25 U	25 U
Acetone	50 U	50 U	50 U	50 U
Carbon Disulfide	25 U	25 U	25 U	25 U
1,1-Dichloroethene	25 U	25 U	25 U	25 U
1,1-Dichloroethane	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene	25 U	25 U	25 U	25 U
Chloroform	25 U	10 J	25 U	25 U
1,2-Dichloroethane	25 U	25 U	25 U	25 U
2-Butanone	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane	25 U	25 U	25 U	25 U
Carbon Tetrachloride	25 U	25 U	25 U	25 U
Vinyl Acetate	50 U	50 U	50 U	50 U
Bromodichloromethane	25 U	25 U	25 U	25 U
1,2-Dichloropropane	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene	25 U	25 U	25 U	25 U
Trichloroethene	25 U	25 U	25 U	25 U
Dibromochloromethane	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane	25 U	25 U	25 U	25 U
Benzene	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	25 U
2-Chloroethylvinylether	50 U	50 U	50 U	50 U
Bromoform	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	50 U	50 U	50 U	50 U
2-Hexanone	50 U	50 U	50 U	50 U
Tetrachloroethene	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	25 U
Toluene	25 U	25 U	25 U	25 U
Chlorobenzene	25 U	25 U	25 U	25 U
Ethylbenzene	25 U	25 U	25 U	25 U
Styrene	25 U	25 U	25 U	25 U
Total Xylenes	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	BH87-881-045	BH87-881-034	BH87-881-046	BH87-881-047
Customer ID:	SP11870008	SP118708DH	SP118711DH	SP118714DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	78 %	86 %	66.6 %	74 %
Bromofluorobenzene:	74 %	126 %	63 %	82 %
1,2-Dichloroethane-d4:	66.2 %	126 %	64.6 %	50.2 %

Analytes

Chloromethane	50 U	50 U	50 U	50 U
Bromomethane	50 U	50 U	50 U	50 U
Vinyl Chloride	50 U	50 U	50 U	50 U
Chloroethane	50 U	50 U	50 U	50 U
Methylene Chloride	25 U	25 U	25 U	25 U
Acetone	50 U	50 U	50 U	50 U
Carbon Disulfide	25 U	25 U	25 U	25 U
1,1-Dichloroethene	25 U	25 U	25 U	25 U
1,1-Dichloroethane	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene	25 U	25 U	25 U	25 U
Chloroform	25 U	25 U	25 U	25 U
1,2-Dichloroethane	25 U	25 U	25 U	25 U
2-Butanone	50 U	50 U	50 U	29.3 J
1,1,1-Trichloroethane	25 U	25 U	25 U	25 U
Carbon Tetrachloride	25 U	25 U	25 U	25 U
Vinyl Acetate	50 U	50 U	50 U	50 U
Bromodichloromethane	25 U	25 U	25 U	25 U
1,2-Dichloropropane	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene	25 U	25 U	25 U	25 U
Trichloroethene	25 U	25 U	25 U	25 U
Dibromochloromethane	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane	25 U	25 U	25 U	25 U
Benzene	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	25 U
2-Chloroethylvinylether	50 U	50 U	50 U	50 U
Bromoform	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	50 U	50 U	50 U	50 U
2-Hexanone	50 U	50 U	50 U	50 U
Tetrachloroethene	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	25 U
Toluene	25 U	25 U	25 U	25 U
Chlorobenzene	25 U	25 U	25 U	25 U
Ethylbenzene	25 U	25 U	25 U	25 U
Styrene	25 U	25 U	25 U	25 U
Total Xylenes	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	BH87-881-048	BH87-881-049	BH87-881-050	BH87-881-051
Customer ID:	SP118716DH	SP118719DH	SP118721DH	SP118724DH
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.0	1.0	1.0

Surrogate Recovery

Toluene-d8:	68 %	80.4 %	78 %	68 %
Bromofluorobenzene:	74 %	62.4 %	72 %	66 %
1,2-Dichloroethane-d4:	60.4 %	59.8 %	58.2 %	63 %

Analytes

Chloromethane	50 U	50 U	50 U	50 U
Bromomethane	50 U	50 U	50 U	50 U
Vinyl Chloride	50 U	50 U	50 U	50 U
Chloroethane	50 U	50 U	50 U	50 U
Methylene Chloride	25 U	25 U	25 U	25 U
Acetone	50 U	50 U	50 U	50 U
Carbon Disulfide	25 U	25 U	25 U	25 U
1,1-Dichloroethene	25 U	25 U	25 U	25 U
1,1-Dichloroethane	25 U	25 U	25 U	25 U
Trans-1,2-Dichloroethene	25 U	25 U	25 U	25 U
Chloroform	25 U	25 U	25 U	25 U
1,2-Dichloroethane	25 U	25 U	25 U	25 U
2-Butanone	50 U	50 U	50 U	50 U
1,1,1-Trichloroethane	25 U	25 U	25 U	25 U
Carbon Tetrachloride	25 U	25 U	25 U	25 U
Vinyl Acetate	50 U	50 U	50 U	50 U
Bromodichloromethane	25 U	25 U	25 U	25 U
1,2-Dichloropropane	25 U	25 U	25 U	25 U
Trans-1,3-Dichloropropene	25 U	25 U	25 U	25 U
Trichloroethene	25 U	25 U	25 U	25 U
Dibromochloromethane	25 U	25 U	25 U	25 U
1,1,2-Trichloroethane	25 U	25 U	25 U	25 U
Benzene	25 U	25 U	25 U	25 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	25 U
2-Chloroethylvinylether	50 U	50 U	50 U	50 U
Bromoform	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	50 U	50 U	50 U	50 U
2-Hexanone	50 U	50 U	50 U	50 U
Tetrachloroethene	25 U	25 U	25 U	25 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	25 U
Toluene	25 U	25 U	25 U	25 U
Chlorobenzene	25 U	25 U	25 U	25 U
Ethylbenzene	25 U	25 U	25 U	25 U
Styrene	25 U	25 U	25 U	25 U
Total Xylenes	25 U	25 U	25 U	25 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BOREHOLE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	BH87-881-052
Customer ID:	SP118726DH
Matrix:	Soil
Units:	UG/KG
Dilution Factor:	1.0

Surrogate Recovery

Toluene-d8:	74 %
Bromofluorobenzene:	58 %
1,2-Dichloroethane-d4:	61.2 %

Analytes

Chloromethane	50	U
Bromomethane	50	U
Vinyl Chloride	50	U
Chloroethane	50	U
Methylene Chloride	25	U
Acetone	50	U
Carbon Disulfide	25	U
1,1-Dichloroethene	25	U
1,1-Dichloroethane	25	U
Trans-1,2-Dichloroethene	25	U
Chloroform	25	U
1,2-Dichloroethane	25	U
2-Butanone	50	U
1,1,1-Trichloroethane	25	U
Carbon Tetrachloride	25	U
Vinyl Acetate	50	U
Bromodichloromethane	25	U
1,2-Dichloropropane	25	U
Trans-1,3-Dichloropropene	25	U
Trichloroethene	25	U
Dibromochloromethane	25	U
1,1,2-Trichloroethane	25	U
Benzene	25	U
cis-1,3-Dichloropropene	25	U
2-Chloroethylvinylether	50	U
Bromoform	25	U
4-Methyl-2-pentanone	50	U
2-Hexanone	50	U
Tetrachloroethene	25	U
1,1,2,2-Tetrachloroethane	25	U
Toluene	25	U
Chlorobenzene	25	U
Ethylbenzene	25	U
Styrene	25	U
Total Xylenes	25	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-052-026	C188608860	26
8608-052-029	C188608861	29
8608-056-034	C188608862	34
8609-022-019	C208609860	19
8609-022-022	C208609861	22
8609-022-025	C208609862	25
8609-022-028	C228609860	28
8609-022-031	C228609861	31
8609-022-034	C228609862	34
8609-022-007	C258608860	07
8609-022-001	C258608861	01
8609-022-004	C258608862	04
8609-022-010	C278609860	10
8609-022-013	C278609861	13
8609-022-016	C278609862	16

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-052-026	8608-052-029	8608-056-034	8609-022-019
Customer ID:	C188608860	C188608861	C188608862	C208609860
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.08	1.12	1.14	1.1

Surrogate Recovery

Toluene-d8:	96 %	96 %	100 %	102 %
Bromofluorobenzene:	99 %	97 %	84 %	98 %
1,2-Dichloroethane-d4:	91 %	91 %	70 %	96 %

Analytes

Chloromethane	10 U	10 U	11 U	11 U
Bromomethane	10 U	10 U	11 U	11 U
Vinyl Chloride	10 U	10 U	11 U	11 U
Chloroethane	10 U	10 U	11 U	11 U
Methylene Chloride	24	10	10	2 J
Acetone	72	110	165 B	35 B
Carbon Disulfide	5 U	2 J	6 U	5 U
1,1-Dichloroethene	5 U	5 U	6 U	5 U
1,1-Dichloroethane	5 U	5 U	6 U	4 J
Trans-1,2-Dichloroethene	5 U	5 U	2 J	5 U
Chloroform	5 U	5 U	6 U	5 U
1,2-Dichloroethane	5 U	5 U	6 U	5 U
2-Butanone	10 U	10 U	11 U	11 U
1,1,1-Trichloroethane	5 U	5 U	2 J	5 U
Carbon Tetrachloride	5 U	5 U	6 U	5 U
Vinyl Acetate	10 U	10 U	11 U	11 U
Bromodichloromethane	5 U	5 U	6 U	5 U
1,2-Dichloropropane	5 U	5 U	6 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	6 U	5 U
Trichloroethene	5 U	5 U	7 J	5 U
Dibromochloromethane	5 U	5 U	6 U	5 U
1,1,2-Trichloroethane	5 U	5 U	6 U	5 U
Benzene	5 U	5 U	6 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	6 U	5 U
2-Chloroethylvinylether	10 U	10 U	11 U	11 U
Bromoform	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10 U	10 U	11 U	11 U
2-Hexanone	10 U	10 U	11 U	11 U
Tetrachloroethene	5 U	5 U	6 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	6 U	5 U
Toluene	5 U	5 U	2 BJ	1 J
Chlorobenzene	5 U	5 U	6 U	5 U
Ethylbenzene	5 U	5 U	6 U	5 U
Styrene	5 U	5 U	6 U	5 U
Total Xylenes	5 U	5 U	6 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	8609-022-022	8609-022-025	8609-022-028	8609-022-031
Customer ID:	C208609861	C208609862	C228609860	C228609861
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.1	1.2	1.1	1.1

Surrogate Recovery

Toluene-d8:	102 %	98 %	104 %	102 %
Bromofluorobenzene:	100 %	102 %	100 %	102 %
1,2-Dichloroethane-d4:	94 %	98 %	106 %	100 %

Analytes

Chloromethane	11 U	12 U	11 U	11 U
Bromomethane	11 U	12 U	11 U	11 U
Vinyl Chloride	11 U	12 U	11 U	11 U
Chloroethane	11 U	12 U	11 U	11 U
Methylene Chloride	7 J	8 J	2 J	2 J
Acetone	39 B	124 B	31 B	44 B
Carbon Disulfide	5 U	6 U	5 U	5 U
1,1-Dichloroethene	5 U	6 U	5 U	5 U
1,1-Dichloroethane	25	43	3 J	6
Trans-1,2-Dichloroethene	5 U	6 U	5 U	5 U
Chloroform	5 U	6 U	5 U	5 U
1,2-Dichloroethane	5 U	6 U	5 U	5 U
2-Butanone	11 U	12 U	21 B	13 B
1,1,1-Trichloroethane	3 J	5 J	5 U	5 U
Carbon Tetrachloride	5 U	6 U	5 U	5 U
Vinyl Acetate	11 U	12 U	11 U	11 U
Bromodichloromethane	5 U	6 U	5 U	5 U
1,2-Dichloropropane	5 U	6 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	6 U	5 U	5 U
Trichloroethene	5 U	6 U	5 U	5 U
Dibromochloromethane	5 U	6 U	5 U	5 U
1,1,2-Trichloroethane	5 U	6 U	5 U	5 U
Benzene	5 U	6 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	6 U	5 U	5 U
2-Chloroethylvinylether	11 U	12 U	11 U	11 U
Bromoform	5 U	6 U	5 U	5 U
4-Methyl-2-pentanone	10 U	12 U	11 U	11 U
2-Hexanone	10 U	12 U	11 U	11 U
Tetrachloroethene	5 U	6 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	6 U	5 U	5 U
Toluene	2 J	2 J	1 J	5 U
Chlorobenzene	5 U	6 U	5 U	5 U
Ethylbenzene	5 U	6 U	5 U	5 U
Styrene	5 U	6 U	5 U	5 U
Total Xylenes	4 J	5 J	4 J	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-034	8609-022-007	8609-022-001	8609-022-004
Customer ID:	C228609862	C258608860	C258608861	C258608862
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.1	1.1	1.2	1.08

Surrogate Recovery

Toluene-d8:	102 %	106 %	98 %	100 %
Bromofluorobenzene:	102 %	94 %	100 %	100 %
1,2-Dichloroethane-d4:	100 %	98 %	88 %	94 %

Analytes

Chloromethane	11 U	11 U	12 U	11 U
Bromomethane	11 U	11 U	12 U	11 U
Vinyl Chloride	11 U	11 U	12 U	11 U
Chloroethane	11 U	10 U	12 U	11 U
Methylene Chloride	2 J	9	6 J	5 J
Acetone	45 B	46 B	89 BJ	30 BJ
Carbon Disulfide	5 U	5 U	6 U	5 U
1,1-Dichloroethene	5 U	5 U	6 U	5 U
1,1-Dichloroethane	2 J	42	16	13
Trans-1,2-Dichloroethene	5 U	5 U	6 U	5 U
Chloroform	5 U	5 U	6 U	5 U
1,2-Dichloroethane	5 U	5 U	6 U	5 U
2-Butanone	11 U	11 U	12 U	11 U
1,1,1-Trichloroethane	5 U	21	2 J	5 U
Carbon Tetrachloride	5 U	5 U	6 U	5 U
Vinyl Acetate	11 U	11 U	12 U	11 U
Bromodichloromethane	5 U	5 U	6 U	5 U
1,2-Dichloropropane	5 U	5 U	6 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	6 U	5 U
Trichloroethene	5 U	5 U	6 U	5 U
Dibromochloromethane	5 U	5 U	6 U	5 U
1,1,2-Trichloroethane	5 U	5 U	6 U	5 U
Benzene	5 U	1 J	6 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	6 U	5 U
2-Chloroethylvinylether	11 U	11 U	12 U	11 U
Bromoform	5 U	5 U	6 U	5 U
4-Methyl-2-pentanone	11 U	11 U	12 U	11 U
2-Hexanone	11 U	11 U	12 U	1 J
Tetrachloroethene	5 U	5 U	6 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	6 U	5 U
Toluene	5 U	8 B	1 BJ	1 BJ
Chlorobenzene	5 U	5 U	6 U	5 U
Ethylbenzene	5 U	2 J	6 U	5 U
Styrene	5 U	5 U	6 U	5 U
Total Xylenes	5 U	11	6 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-010	8609-022-013	8609-022-016
Customer ID:	C278609860	C278609861	C278609862
Matrix:	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.0	1.20	1.10

Surrogate Recovery

Toluene-d8:	100 %	104 %	102 %
Bromofluorobenzene:	100 %	98 %	100 %
1,2-Dichloroethane-d4:	96 %	90 %	98 %

Analytes

Chloromethane.....	10 U	12 U	11 U
Bromomethane.....	10 U	12 U	11 U
Vinyl Chloride.....	10 U	12 U	11 U
Chloroethane.....	10 U	12 U	11 U
Methylene Chloride.....	2 J	12	10
Acetone.....	49 BJ	41 B	52 B
Carbon Disulfide.....	5 U	6 U	5 U
1,1-Dichloroethene.....	5 U	6 U	5 U
1,1-Dichloroethane.....	3 J	49	35
Trans-1,2-Dichloroethene.....	5 U	6 U	5 U
Chloroform.....	5 U	6 U	5 U
1,2-Dichloroethane.....	5 U	6 U	5 U
2-Butanone.....	10 U	12	11 U
1,1,1-Trichloroethane.....	5 U	6 J	4 J
Carbon Tetrachloride.....	5 U	6 U	5 U
Vinyl Acetate.....	10 U	12 U	11 U
Bromodichloromethane.....	5 U	6 U	5 U
1,2-Dichloropropane.....	5 U	6 U	5 U
Trans-1,3-Dichloropropene.....	5 U	6 U	5 U
Trichloroethene.....	5 U	6 U	5 U
Dibromochloromethane.....	5 U	6 U	5 U
1,1,2-Trichloroethane.....	5 U	6 U	5 U
Benzene.....	5 U	6 U	5 U
cis-1,3-Dichloropropene.....	5 U	6 U	5 U
2-Chloroethylvinylether.....	10 U	12 U	11 U
Bromoform.....	5 U	6 U	5 U
4-Methyl-2-pentanone.....	10 U	12 U	11 U
2-Hexanone.....	10 U	12 U	11 U
Tetrachloroethene.....	5 U	6 U	5 U
1,1,2,2-Tetrachloroethane.....	5 U	6 U	5 U
Toluene.....	5 U	2 BJ	2 BJ
Chlorobenzene.....	5 U	6 U	5 U
Ethylbenzene.....	5 U	6 U	5 U
Styrene.....	5 U	6 U	5 U
Total Xylenes.....	5 U	0 U	2 J

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SEMIVOLATILES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-053-006	C188608860	
8608-053-007	C188608861	
8608-056-009	C188608862	
8609-022-009	C208609860	
8609-022-010	C208609861	
8609-022-011	C208609862	
8609-022-003	C228609860	
8609-022-004	C228609861	
8609-022-005	C228609862	
8609-022-012	C258608860	
8609-022-001	C258608861	
8609-022-002	C258608862	
8609-022-006	C278609860	
8609-022-007	C278609861	
8609-022-008	C278609862	

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-053-006	8608-053-007	8608-056-009	8609-022-009
Customer ID:	C188608860	C188608861	C188608862	C208609860
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	39	41	39	41

Surrogate Recovery

2-Fluorophenol:	38 %	48 %	52 %	61 %
Phenol-d5:	34 %	46 %	62 %	64 %
2,4,6-Br3-Phenol:	33 %	45 %	44 %	58 %
Nitrobenzene-d5:	34 %	44 %	34 %	60 %
2-Fluorobiphenyl:	38 %	56 %	40 %	78 %
p-Terphenyl-d14:	24 %	42 %	44 %	58 %

Analytes

Phenol	390 U	410 U	390 U	410 U
bis(2-Chloroethyl)Ether	390 U	410 U	390 U	410 U
2-Chlorophenol	390 U	410 U	390 U	410 U
1,3-Dichlorobenzene	390 U	410 U	390 U	410 U
1,4-Dichlorobenzene	390 U	410 U	390 U	410 U
Benzyl Alcohol	390 U	410 U	390 U	410 U
1,2-Dichlorobenzene	390 U	410 U	390 U	410 U
2-Methylphenol	390 U	410 U	390 U	410 U
bis(2-Chloroisopropyl)Ether	390 U	410 U	390 U	410 U
4-Methylphenol	390 U	410 U	390 U	410 U
N-Nitroso-di-n-propylamine	390 U	410 U	390 U	410 U
Hexachloroethane	390 U	410 U	390 U	410 U
Nitrobenzene	390 U	410 U	390 U	410 U
Isophorone	390 U	410 U	390 U	410 U
2-Nitrophenol	390 U	410 U	390 U	410 U
2,4-Dimethylphenol	390 U	410 U	390 U	410 U
Benzoic Acid	2000 U	2000 U	2000 U	2050 U
bis(2-Chloroethoxy)Methane	390 U	410 U	390 U	410 U
2,4-Dichlorophenol	390 U	410 U	390 U	410 U
1,2,4-Trichlorobenzene	390 U	410 U	390 U	410 U
Naphthalene	390 U	410 U	390 U	410 U
4-Chloroaniline	390 U	410 U	390 U	410 U
Hexachlororbutadiene	390 U	410 U	390 U	410 U
4-Chloro-3-methylphenol	390 U	410 U	390 U	410 U
2-Methylnaphthalene	390 U	410 U	390 U	410 U
Hexachlorocyclopentadiene	390 U	410 U	390 U	410 U
2,4,6-Trichlorophenol	390 U	410 U	390 U	410 U
2,4,5-Trichlorophenol	2000 U	2000 U	2000 U	2050 U
2-Chloronaphthalene	390 U	410 U	390 U	410 U
2-Nitroaniline	2000 U	2000 U	2000 U	2050 U
Dimethyl Phthalate	390 U	410 U	390 U	410 U
Acenaphthylene	390 U	410 U	390 U	410 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-053-006	8608-053-007	8608-056-009	8609-022-009
Customer ID:	C188608860	C188608861	C188608862	C208609860
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	39	41	39	41

Analytes

3-Nitroaniline	2000	U	2000	U	2000	U	2050	U
Acenaphthene	390	U	410	U	390	U	410	U
2,4-Dinitrophenol	2000	U	2000	U	2000	U	2050	U
4-Nitrophenol	2000	U	2000	U	2000	U	2050	U
Dibenzofuran	390	U	410	U	390	U	410	U
2,4-Dinitrotoluene	390	U	410	U	390	U	410	U
2,6-Dinitrotoluene	390	U	410	U	390	U	410	U
Diethylphthalate	390	U	410	U	390	U	410	U
4-Chlorophenyl-phenylether	390	U	410	U	390	U	40	J
Fluorene	390	U	410	U	390	U	410	U
4-Nitroaniline	2000	U	2000	U	2000	U	2050	U
4,6-Dinitro-2-methylphenol	2000	U	2000	U	2000	U	2050	U
N-Nitrosodiphenylamine	550	B	860	B	390	B	160	JB
4-Bromophenyl-phenylether	390	U	410	U	390	U	410	U
Hexachlorobenzene	390	U	410	U	390	U	410	U
Pentachlorophenol	2000	U	2000	U	2000	U	2050	U
Phenanthrene	390	U	410	U	390	U	410	U
Anthracene	390	U	410	U	390	U	80	J
di-n-Butyl Phthalate	160	JB	410	B	470	B	530	B
Fluoranthene	390	U	410	U	390	U	450	
Pyrene	390	U	410	U	390	U	370	J
Butyl Benzyl Phthalate	390	U	410	U	390	U	410	U
3,3'-Dichlorobenzidine	780	U	820	U	780	U	820	U
Benzo(a)Anthracene	390	U	410	U	390	U	120	J
bis(2-Ethylhexyl)Phthalate	120	JB	41	JB	78	JB	410	U
Chrysene	390	U	410	U	390	U	120	J
di-n-Octyl Phthalate	390	U	200	J	78	J	410	U
Benzo(b)Fluoranthene	390	U	410	U	390	U	410	U
Benzo(k)Fluoranthene	390	U	410	U	390	U	160	J
Benzo(a)Pyrene	390	U	410	U	390	U	120	J
Indeno(1,2,3-cd)Pyrene	390	U	410	U	390	U	80	J
Dibenz(a,h)Anthracene	390	U	410	U	390	U	410	U
Benzo(g,h,i)Perylene	390	U	410	U	390	U	410	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-010	8609-022-011	8609-022-003	8609-022-004
Customer ID:	C208609861	C208609862	C228609860	C228609861
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	44	45	41	42

Surrogate Recovery

2-Fluorophenol:	37 %	48 %	61 %	58 %
Phenol-d5:	39 %	49 %	60 %	58 %
2,4,6-Br3-Phenol:	36 %	48 %	67 %	57 %
Nitrobenzene-d5:	36 %	47 %	58 %	58 %
2-Fluorobiphenyl:	47 %	60 %	76 %	71 %
p-Terphenyl-d14:	38 %	42 %	64 %	60 %

Analytes

Phenol	440 U	450 U	410 U	420 U
bis(2-Chloroethyl)Ether	440 U	450 U	410 U	420 U
2-Chlorophenol	440 U	450 U	410 U	420 U
1,3-Dichlorobenzene	440 U	450 U	410 U	420 U
1,4-Dichlorobenzene	440 U	450 U	410 U	420 U
Benzyl Alcohol	440 U	450 U	410 U	420 U
1,2-Dichlorobenzene	440 U	450 U	410 U	420 U
2-Methylphenol	440 U	450 U	410 U	420 U
bis(2-Chloroisopropyl)Ether	440 U	450 U	410 U	420 U
4-Methylphenol	440 U	450 U	410 U	420 U
N-Nitroso-di-n-propylamine	440 U	450 U	410 U	420 U
Hexachloroethane	440 U	450 U	410 U	420 U
Nitrobenzene	440 U	450 U	410 U	420 U
Isophorone	440 U	450 U	410 U	420 U
2-Nitrophenol	440 U	450 U	410 U	420 U
2,4-Dimethylphenol	440 U	450 U	410 U	420 U
Benzoic Acid	2200 U	2250 U	2050 U	2100 U
bis(2-Chloroethoxy)Methane	440 U	450 U	2050 U	420 U
2,4-Dichlorophenol	440 U	450 U	410 U	420 U
1,2,4-Trichlorobenzene	440 U	450 U	410 U	420 U
Naphthalene	440 U	450 U	410 U	420 U
4-Chloroaniline	440 U	450 U	410 U	420 U
Hexachlororbutadiene	440 U	450 U	410 U	420 U
4-Chloro-3-methylphenol	440 U	450 U	410 U	420 U
2-Methylnaphthalene	440 U	450 U	410 U	420 U
Hexachlorocyclopentadiene	440 U	450 U	410 U	420 U
2,4,6-Trichlorophenol	440 U	450 U	410 U	420 U
2,4,5-Trichlorophenol	2200 U	2250 U	2050 U	2100 U
2-Chloronaphthalene	440 U	450 U	410 U	420 U
2-Nitroaniline	2200 U	2250 U	2050 U	2100 U
Dimethyl Phthalate	440 U	450 U	410 U	420 U
Acenaphthylene	440 U	450 U	410 U	420 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-010	8609-022-011	8609-022-003	8609-022-004
Customer ID:	C208609861	C208609862	C228609860	C228609861
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	44	45	41	42

Analytes

3-Nitroaniline	2200	U	2250	U	2050	U	2100	U
Acenaphthene	440	U	450	U	410	U	420	U
2,4-Dinitrophenol	2200	U	2250	U	2100	U	2100	U
4-Nitrophenol	2200	U	2250	U	2100	U	2100	U
Dibenzofuran	440	U	450	U	2050	U	420	U
2,4-Dinitrotoluene	440	U	450	U	410	U	420	U
2,6-Dinitrotoluene	440	U	450	U	410	U	420	U
Diethylphthalate	440	U	450	U	410	U	420	U
4-Chlorophenyl-phenylether	440	U	450	U	410	U	420	U
Fluorene	440	U	450	U	410	U	420	U
4-Nitroaniline	2200	U	2250	U	2050	U	2100	U
4,6-Dinitro-2-methylphenol	2200	U	2250	U	2500	U	2100	U
N-Nitrosodiphenylamine	130	JB	140	JB	330	JB	290	JB
4-Bromophenyl-phenylether	440	U	450	U	410	U	420	U
Hexachlorobenzene	440	U	450	U	410	U	420	U
Pentachlorophenol	2200	U	2250	U	2050	U	2100	U
Phenanthrene	440	U	450	U	410	U	420	U
Anthracene	440	U	450	U	410	U	420	U
di-n-Butyl Phthalate	260	JB	450	U	250	JB	40	JB
Fluoranthene	440	U	450	U	410	U	420	U
Pyrene	440	U	450	U	410	U	420	U
Butyl Benzyl Phthalate	440	U	450	U	410	U	420	U
3,3'-Dichlorobenzidine	880	U	900	U	820	U	840	U
Benzo(a)Anthracene	440	U	450	U	410	U	420	U
bis(2-Ethylhexyl)Phthalate	440	U	450	U	410	U	420	U
Chrysene	440	U	450	U	410	U	420	U
di-n-Octyl Phthalate	440	U	450	U	410	U	250	J
Benzo(b)Fluoranthene	440	U	450	U	410	U	420	U
Benzo(k)Fluoranthene	440	U	450	U	410	U	420	U
Benzo(a)Pyrene	440	U	450	U	410	U	420	U
Indeno(1,2,3-cd)Pyrene	440	U	450	U	410	U	420	U
Dibenz(a,h)Anthracene	440	U	450	U	410	U	420	U
Benzo(g,h,i)Perylene	440	U	450	U	410	U	420	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	8609-022-005	8609-022-012	8609-022-001	8609-022-002
Customer ID:	C228609862	C258608860	C258608861	C258608862
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	40	40	44	40

Surrogate Recovery

2-Fluorophenol:	51 %	63 %	70 %	8 %
Phenol-d5:	56 %	69 %	71 %	9 %
2,4,6-Br3-Phenol:	56 %	86 %	94 %	11 %
Nitrobenzene-d5:	49 %	67 %	76 %	9 %
2-Fluorobiphenyl:	62 %	76 %	89 %	11 %
p-Terphenyl-d14:	51 %	58 %	67 %	9 %

Analytes

Phenol	400 U	400 U	440 U	400 U
bis(2-Chloroethyl)Ether	400 U	400 U	440 U	400 U
2-Chlorophenol	400 U	400 U	440 U	400 U
1,3-Dichlorobenzene	400 U	400 U	440 U	400 U
1,4-Dichlorobenzene	400 U	400 U	440 U	400 U
Benzyl Alcohol	400 U	400 U	440 U	400 U
1,2-Dichlorobenzene	400 U	400 U	440 U	400 U
2-Methylphenol	400 U	400 U	440 U	400 U
bis(2-Chloroisopropyl)Ether	400 U	400 U	440 U	400 U
4-Methylphenol	400 U	400 U	440 U	400 U
N-Nitroso-di-n-propylamine	400 U	400 U	440 U	400 U
Hexachloroethane	400 U	400 U	440 U	400 U
Nitrobenzene	400 U	400 U	440 U	400 U
Isophorone	400 U	400 U	440 U	400 U
2-Nitrophenol	400 U	400 U	440 U	400 U
2,4-Dimethylphenol	400 U	400 U	440 U	400 U
Benzoic Acid	2000 U	2000 U	2200 U	2000 U
bis(2-Chloroethoxy)Methane	400 U	400 U	440 U	400 U
2,4-Dichlorophenol	400 U	400 U	440 U	400 U
1,2,4-Trichlorobenzene	400 U	400 U	440 U	400 U
Naphthalene	400 U	400 U	440 U	400 U
4-Chloroaniline	400 U	400 U	440 U	400 U
Hexachlororbutadiene	400 U	400 U	440 U	400 U
4-Chloro-3-methylphenol	400 U	400 U	440 U	400 U
2-Methylnaphthalene	400 U	400 U	440 U	400 U
Hexachlorocyclopentadiene	400 U	400 U	440 U	400 U
2,4,6-Trichlorophenol	400 U	400 U	440 U	400 U
2,4,5-Trichlorophenol	2000 U	2000 U	2200 U	2000 U
2-Chloronaphthalene	400 U	400 U	440 U	400 U
2-Nitroaniline	2000 U	2000 U	2200 U	2000 U
Dimethyl Phthalate	400 U	400 U	440 U	400 U
Acenaphthylene	400 U	400 U	440 U	400 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-005	8609-022-012	8609-022-001	8609-022-002
Customer ID:	C228609862	C258608860	C258608861	C258608862
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	40	40	44	40

Analytes

3-Nitroaniline	2000	U	2000	U	2200	U	2000	U
Acenaphthene	400	U	400	U	440	U	400	U
2,4-Dinitrophenol	2000	U	2000	U	2200	U	2000	U
4-Nitrophenol	2000	U	2000	U	2200	U	2000	U
Dibenzofuran	400	U	400	U	440	U	400	U
2,4-Dinitrotoluene	400	U	400	U	440	U	400	U
2,6-Dinitrotoluene	400	U	400	U	440	U	400	U
Diethylphthalate	400	U	400	U	440	U	400	U
4-Chlorophenyl-phenylether	400	U	400	U	440	U	400	U
Fluorene	400	U	400	U	440	U	400	U
4-Nitroaniline	2000	U	2000	U	2200	U	2000	U
4,6-Dinitro-2-methylphenol	2000	U	2000	U	2200	U	2000	U
N-Nitrosodiphenylamine	360	JB	280	JB	180	JB	160	JB
4-Bromophenyl-phenylether	400	U	400	U	440	U	400	U
Hexachlorobenzene	400	U	400	U	440	U	400	U
Pentachlorophenol	2000	U	2000	U	2200	U	2000	U
Phenanthrene	400	U	400	U	440	U	400	U
Anthracene	400	U	400	U	440	U	400	U
di-n-Butyl Phthalate	400	B	480	B	88	JB	680	JB
Fluoranthene	400	U	400	U	440	U	400	U
Pyrene	400	U	400	U	440	U	400	U
Butyl Benzyl Phthalate	400	U	400	U	440	U	400	U
3,3'-Dichlorobenzidine	800	U	800	U	880	U	800	U
Benzo(a)Anthracene	400	U	400	U	440	U	400	U
bis(2-Ethylhexyl)Phthalate	400	U	240	J	440	U	400	U
Chrysene	400	U	400	U	440	U	400	U
di-n-Octyl Phthalate	40	J	80	J	440	U	400	U
Benzo(b)Fluoranthene	400	U	400	U	440	U	400	U
Benzo(k)Fluoranthene	400	U	400	U	440	U	400	U
Benzo(a)Pyrene	400	U	400	U	440	U	400	U
Indeno(1,2,3-cd)Pyrene	400	U	400	U	440	U	400	U
Dibenz(a,h)Anthracene	400	U	400	U	440	U	400	U
Benzo(g,h,i)Perylene	400	U	400	U	440	U	400	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	8609-022-006	8609-022-007	8609-022-008
Customer ID:	C278609860	C278609861	C278609862
Matrix:	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG
Dilution Factor:	40	46	43

Surrogate Recovery

2-Fluorophenol:	46 %	64 %	48 %
Phenol-d5:	52 %	68 %	59 %
2,4,6-Br3-Phenol:	51 %	63 %	47 %
Nitrobenzene-d5:	44 %	64 %	56 %
2-Fluorobiphenyl:	67 %	82 %	71 %
p-Terphenyl-d14:	67 %	78 %	64 %

Analytes

Phenol	400 U	460 U	430 U
bis(2-Chloroethyl)Ether	400 U	460 U	430 U
2-Chlorophenol	400 U	460 U	430 U
1,3-Dichlorobenzene	400 U	460 U	430 U
1,4-Dichlorobenzene	400 U	460 U	430 U
Benzyl Alcohol	400 U	460 U	430 U
1,2-Dichlorobenzene	400 U	460 U	430 U
2-Methylphenol	400 U	460 U	430 U
bis(2-Chloroisopropyl)Ether	400 U	460 U	430 U
4-Methylphenol	400 U	460 U	430 U
N-Nitroso-di-n-propylamine	400 U	460 U	430 U
Hexachloroethane	400 U	460 U	430 U
Nitrobenzene	400 U	460 U	430 U
Isophorone	400 U	460 U	430 U
2-Nitrophenol	400 U	460 U	430 U
2,4-Dimethylphenol	400 U	460 U	430 U
Benzoic Acid	2000 U	2300 U	2150 U
bis(2-Chloroethoxy)Methane	400 U	460 U	430 U
2,4-Dichlorophenol	400 U	460 U	430 U
1,2,4-Trichlorobenzene	400 U	460 U	430 U
Naphthalene	400 U	460 U	430 U
4-Chloroaniline	400 U	460 U	430 U
Hexachlororbutadiene	400 U	460 U	430 U
4-Chloro-3-methylphenol	400 U	460 U	430 U
2-Methylnaphthalene	400 U	460 U	430 U
Hexachlorocyclopentadiene	400 U	460 U	430 U
2,4,6-Trichlorophenol	400 U	460 U	430 U
2,4,5-Trichlorophenol	2000 U	2300 U	2150 U
2-Chloronaphthalene	400 U	460 U	430 U
2-Nitroaniline	2000 U	2300 U	2150 U
Dimethyl Phthalate	400 U	460 U	430 U
Acenaphthylene	400 U	460 U	430 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	8609-022-006	8609-022-007	8609-022-008
Customer ID:	C278609860	C278609861	C278609862
Matrix:	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG
Dilution Factor:	40	46	43

Analytes

3-Nitroaniline	2000	U	2300	U	2150	U
Acenaphthene	400	U	460	U	430	U
2,4-Dinitrophenol	2000	U	2300	U	2150	U
4-Nitrophenol	2000	U	2300	U	2150	U
Dibenzofuran	400	U	460	U	430	U
2,4-Dinitrotoluene	400	U	460	U	430	U
2,6-Dinitrotoluene	400	U	460	U	430	U
Diethylphthalate	400	U	460	U	430	U
4-Chlorophenyl-phenylether	400	U	460	U	430	U
Fluorene	400	U	460	U	430	U
4-Nitroaniline	2000	U	2300	U	2150	U
4,6-Dinitro-2-methylphenol	2000	U	2300	U	2150	U
N-Nitrosodiphenylamine	280	JB	230	JB	170	JB
4-Bromophenyl-phenylether	400	U	460	U	430	U
Hexachlorobenzene	400	U	460	U	430	U
Pentachlorophenol	2000	U	2300	U	2150	U
Phenanthrene	400	U	460	U	430	U
Anthracene	400	U	460	U	430	U
di-n-Butyl Phthalate	120	JB	1060	JB	430	JB
Fluoranthene	400	U	460	U	430	U
Pyrene	400	U	460	U	430	U
Butyl Benzyl Phthalate	400	U	460	U	430	U
3,3'-Dichlorobenzidine	800	U	920	U	860	U
Benzo(a)Anthracene	400	U	460	U	430	U
bis(2-Ethylhexyl)Phthalate	400	U	90	J	430	U
Chrysene	400	U	460	U	430	U
di-n-Octyl Phthalate	80	J	370	J	130	J
Benzo(b)Fluoranthene	400	U	460	U	430	U
Benzo(k)Fluoranthene	400	U	460	U	430	U
Benzo(a)Pyrene	400	U	460	U	430	U
Indeno(1,2,3-cd)Pyrene	400	U	460	U	430	U
Dibenz(a,h)Anthracene	400	U	460	U	430	U
Benzo(g,h,i)Perylene	400	U	460	U	430	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

PESTICIDES/PCBs

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-052-006	C188608860	
8608-052-007	C188608861	
8608-056-009	C188608862	
8609-022-009	C208609860	
8609-022-010	C208609861	
8609-022-011	C208609862	
8609-022-003	C228609860	
8609-022-004	C228609861	
8609-022-005	C228609862	
8609-022-012	C258608860	
8609-022-001	C258608861	
8609-022-002	C258608862	
8609-022-006	C278609860	
8609-022-007	C278609861	
8609-022-008	C278609862	

SOLAR POND CORE SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-052-006	8608-052-007	8608-056-009	8609-022-009
Customer ID:	C188608860	C188608861	C188608862	C208609860
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	.250	.250	.250	.625

Surrogate Recovery

Di-n-butylchlorendate:	36 %	25 %	28 %	143 %

Analytes

Alpha-BHC	2 U	2 U	2 U	5 U
Beta-BHC	2 U	2 U	2 U	5 U
Delta-BHC	2 U	2 U	2 U	5 U
Gamma-BHC (Lindane)	2 U	2 U	2 U	5 U
Heptachlor	2 U	2 U	2 U	5 U
Aldrin	2 U	2 U	2 U	5 U
Heptachlor Epoxide	2 U	2 U	2 U	5 U
Endosulfan I	2 U	2 U	2 U	5 U
Dieldrin	4 U	4 U	4 U	10 U
4,4'-DDE	4 U	4 U	4 U	10 U
Endrin	4 U	4 U	4 U	10 U
Endosulfan II	4 U	4 U	4 U	10 U
4,4'-DDD	4 U	4 U	4 U	10 U
Endosulfan Sulfate	4 U	4 U	4 U	10 U
4,4'-DDT	4 U	4 U	4 U	10 U
Methoxychlor	20 U	20 U	20 U	50 U
Endrin Ketone	4 U	4 U	4 U	10 U
Chlordane	20 U	20 U	20 U	50 U
Toxaphene	40 U	40 U	40 U	100 U
Aroclor-1016	20 U	20 U	20 U	50 U
Aroclor-1221	20 U	20 U	20 U	50 U
Aroclor-1232	20 U	20 U	20 U	50 U
Aroclor-1242	20 U	20 U	20 U	50 U
Aroclor-1248	20 U	20 U	20 U	50 U
Aroclor-1254	40 U	40 U	40 U	100 U
Aroclor-1260	40 U	40 U	40 U	100 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-010	8609-022-011	8609-022-003	8609-022-004
Customer ID:	C208609861	C208609862	C228609860	C228609861
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	.625	.625	.625	.625

Surrogate Recovery

Di-n-butylchlorendate:	203 %	135 %	163 %	169 %

Analytes

Alpha-BHC	5 U	5 U	5 U	5 U
Beta-BHC	5 U	5 U	5 U	5 U
Delta-BHC	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	5 U	5 U	5 U	5 U
Heptachlor	5 U	5 U	5 U	5 U
Aldrin	5 U	5 U	5 U	5 U
Heptachlor Epoxide	5 U	5 U	5 U	5 U
Endosulfan I	5 U	5 U	5 U	5 U
Dieldrin	10 U	10 U	10 U	10 U
4,4'-DDE	10 U	10 U	10 U	10 U
Endrin	10 U	10 U	10 U	10 U
Endosulfan II	10 U	10 U	10 U	10 U
4,4'-DDD	10 U	10 U	10 U	10 U
Endosulfan Sulfate	10 U	10 U	10 U	10 U
4,4'-DDT	10 U	10 U	10 U	10 U
Methoxychlor	50 U	50 U	50 U	50 U
Endrin Ketone	10 U	10 U	10 U	10 U
Chlordane	50 U	50 U	50 U	50 U
Toxaphene	100 U	100 U	100 U	100 U
Aroclor-1016	50 U	50 U	50 U	50 U
Aroclor-1221	50 U	50 U	50 U	50 U
Aroclor-1232	50 U	50 U	50 U	50 U
Aroclor-1242	50 U	50 U	50 U	50 U
Aroclor-1248	50 U	50 U	50 U	50 U
Aroclor-1254	100 U	100 U	100 U	100 U
Aroclor-1260	100 U	100 U	100 U	100 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-005	8609-022-012	8609-022-001	8609-022-002
Customer ID:	C228609862	C258608860	C258608861	C258608862
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	.625	.625	.625	.625

Surrogate Recovery

Di-n-butylchlorendate:	146 %	185 %	249 %	35 %

Analytes

Alpha-BHC	5 U	5 U	5 U	5 U
Beta-BHC	5 U	5 U	5 U	5 U
Delta-BHC	5 U	5 U	5 U	5 U
Gamma-BHC (Lindane)	5 U	5 U	5 U	5 U
Heptachlor	5 U	5 U	5 U	5 U
Aldrin	5 U	5 U	5 U	5 U
Heptachlor Epoxide	5 U	5 U	5 U	5 U
Endosulfan I	5 U	5 U	5 U	5 U
Dieldrin	10 U	10 U	10 U	10 U
4,4'-DDE	10 U	10 U	10 U	10 U
Endrin	10 U	10 U	10 U	10 U
Endosulfan II	10 U	10 U	10 U	10 U
4,4'-DDD	10 U	10 U	10 U	10 U
Endosulfan Sulfate	10 U	10 U	10 U	10 U
4,4'-DDT	10 U	10 U	10 U	10 U
Methoxychlor	50 U	50 U	50 U	50 U
Endrin Ketone	10 U	10 U	10 U	10 U
Chlordane	50 U	50 U	50 U	50 U
Toxaphene	100 U	100 U	100 U	100 U
Aroclor-1016	50 U	50 U	50 U	50 U
Aroclor-1221	50 U	50 U	50 U	50 U
Aroclor-1232	50 U	50 U	50 U	50 U
Aroclor-1242	50 U	50 U	50 U	50 U
Aroclor-1248	50 U	50 U	50 U	50 U
Aroclor-1254	100 U	100 U	100 U	100 U
Aroclor-1260	100 U	100 U	100 U	100 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND CORE SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-006	8609-022-007	8609-022-008
Customer ID:	C278609860	C278609861	C278609862
Matrix:	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG
Dilution Factor:	.625	.625	.625

Surrogate Recovery

Di-n-butylchlorendate:	177 %	164 %	147 %

Analytes

Alpha-BHC	5 U	5 U	5 U
Beta-BHC	5 U	5 U	5 U
Delta-BHC	5 U	5 U	5 U
Gamma-BHC (Lindane)	5 U	5 U	5 U
Heptachlor	5 U	5 U	5 U
Aldrin	5 U	5 U	5 U
Heptachlor Epoxide	5 U	5 U	5 U
Endosulfan I	5 U	5 U	5 U
Dieldrin	10 U	10 U	10 U
4,4'-DDE	10 U	10 U	10 U
Endrin	10 U	10 U	10 U
Endosulfan II	10 U	10 U	10 U
4,4'-DDD	10 U	10 U	10 U
Endosulfan Sulfate	10 U	10 U	10 U
4,4'-DDT	10 U	10 U	10 U
Methoxychlor	50 U	50 U	50 U
Endrin Ketone	10 U	10 U	10 U
Chlordane	50 U	50 U	50 U
Toxaphene	100 U	100 U	100 U
Aroclor-1016	50 U	50 U	50 U
Aroclor-1221	50 U	50 U	50 U
Aroclor-1232	50 U	50 U	50 U
Aroclor-1242	50 U	50 U	50 U
Aroclor-1248	50 U	50 U	50 U
Aroclor-1254	100 U	100 U	100 U
Aroclor-1260	100 U	100 U	100 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

RADIONUCLIDES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
2000-000-061	SP018700FS	9299-26206-5-1
2000-000-062	SP018704DH	9299-26206-5-2
2000-000-063	SP018705DH	9299-26206-5-3
2000-000-064	SP018711DH	9299-26206-5-4
2000-000-065	SP018713DH	9299-26206-5-5
2000-000-066	SP018716BR	9299-26207-3-1
2000-000-067	SP018721DH	9299-26207-3-2
2000-000-068	SP018723DH	9299-26207-3-3
2000-000-128	SP02870008	9299-26208-4-4
2000-000-125	SP028708UC	9299-26208-4-1
2000-000-126	SP028711CT	9299-26208-4-2
2000-000-127	SP028713BR	9299-26208-4-3
2000-000-001	SP038711DH	9299-26205-3-1
2000-000-002	SP038713CT	9299-26205-3-2
2000-000-003	SP038716BR	9299-26205-3-3
2000-000-009	SP0487004D	9299-26210-4-3
2000-000-007	SP048702DH	9299-26210-4-1
2000-000-008	SP048704DH	9299-26210-4-2
2000-000-010	SP048707DH	9299-26210-4-4
2000-000-014	SP048712DH	9299-26212-8-1
2000-000-015	SP048715FS	9299-26212-8-2
2000-000-016	SP048717DH	9299-26212-8-3
2000-000-017	SP048720DH	9299-26212-8-4
2000-000-018	SP048722DH	9299-26212-8-5
2000-000-019	SP048725DH	9299-26212-8-6
2000-000-020	SP048727DH	9299-26212-8-7
2000-000-021	SP048730DH	9299-26212-8-8
2000-000-030	SP048732DH	9299-26215-1-1
2000-000-032	SP058702DH	9299-26217-6-1
2000-000-033	SP058704DH	9299-26217-6-2
2000-000-034	SP058707DH	9299-26217-6-3
2000-000-035	SP058710DH	9299-26217-6-4
2000-000-036	SP058712DH	9299-26217-6-5
2000-000-037	SP058716DH	9299-26217-6-6
2000-000-109	SP068702FS	9299-26229-7-1
2000-000-110	SP068708DH	9299-26229-7-2
2000-000-111	SP068711DH	9299-26229-7-3
2000-000-112	SP068713DH	9299-26229-7-4
2000-000-113	SP068716DH	9299-26229-7-5
2000-000-114	SP068718DH	9299-26229-7-6
2000-000-115	SP068721DH	9299-26229-7-7
2000-000-086	SP068724DH	9299-26230-2-1
2000-000-087	SP068726DH	9299-26230-2-2
2000-000-099	SP078700DH	9299-26226-5-1
2000-000-100	SP078702DH	9299-26226-5-2
2000-000-101	SP078708FS	9299-26226-5-3
2000-000-102	SP078711DH	9299-26226-5-4
2000-000-103	SP078713DH	9299-26226-5-5
2000-000-104	SP078716DH	9299-26227-5-1
2000-000-105	SP078718WT	9299-26227-5-2
2000-000-106	SP078721CT	9299-26227-5-3

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
2000-000-107	SP078723BR	9299-26227-5-4
2000-000-108	SP078726DH	9299-26227-5-5
2000-000-004	SP088703UC	9299-26209-3-1
2000-000-005	SP088706CT	9299-26209-3-2
2000-000-006	SP088709BR	9299-26209-3-3
2000-000-011	SP098703UC	9299-26211-3-1
2000-000-012	SP098706CT	9299-26211-3-2
2000-000-013	SP098708BR	9299-26211-3-3
2000-000-077	SP108700DH	9299-26220-9-1
2000-000-041	SP1087017D	9299-26222-4-2
2000-000-078	SP108702DH	9299-26220-9-2
2000-000-079	SP108704BR	9299-26220-9-3
2000-000-080	SP108705DH	9299-26220-9-4
2000-000-081	SP108707DH	9299-26220-9-5
2000-000-082	SP108709DH	9299-26220-9-6
2000-000-083	SP108711DH	9299-26220-9-7
2000-000-084	SP108713DH	9299-26220-9-8
2000-000-085	SP108715DH	9299-26220-9-9
2000-000-040	SP108717DH	9299-26222-4-1
2000-000-042	SP108719DH	9299-26222-4-3
2000-000-043	SP108721WT	9299-26222-4-4
2000-000-044	SP108723DH	9299-26223-2-1
2000-000-045	SP108724DH	9299-26223-2-2
2000-000-022	SP11870008	9299-26214-8-1
2000-000-069	SP118708DH	9299-26213-1-1
2000-000-023	SP118711DH	9299-26214-8-2
2000-000-024	SP118714DH	9299-26214-8-3
2000-000-025	SP118716DH	9299-26214-8-4
2000-000-026	SP118719DH	9299-26214-8-5
2000-000-027	SP118721DH	9299-26214-8-6
2000-000-028	SP118724DH	9299-26214-8-7
2000-000-029	SP118726DH	9299-26214-8-8
2000-000-031	SP118729DH	9299-26216-1-1
2000-000-088	SP12870009	9299-26221-6-1
2000-000-089	SP12870916	9299-26221-6-2
2000-000-038	SP128716DH	9299-26219-2-1
2000-000-039	SP128719DH	9299-26219-2-2
2000-000-090	SP128721DH	9299-26221-6-3
2000-000-091	SP128724DH	9299-26221-6-4
2000-000-092	SP128726DH	9299-26221-6-5
2000-000-093	SP128729DH	9299-26221-6-6
2000-000-094	SP128731DH	9299-26224-5-1
2000-000-095	SP128734DH	9299-26224-5-2
2000-000-096	SP128739DH	9299-26224-5-3
2000-000-097	SP128741DH	9299-26224-5-4
2000-000-070	SP138700UC	9299-26218-7-1
2000-000-071	SP138701CT	9299-26218-7-2
2000-000-072	SP138703BR	9299-26218-7-3
2000-000-073	SP138706DH	9299-26218-7-4
2000-000-075	SP138709DH	9299-26218-7-6
2000-000-076	SP138711DH	9299-26218-7-7

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
2000-000-074	SP13876DUP	9299-26218-7-5
2000-000-098	SP148702CT	9299-26224-5-5
2000-000-046	SP148704BR	9299-26225-4-1
2000-000-048	SP1587008D	9299-26225-4-3
2000-000-129	SP158702DH	
2000-000-047	SP158708DH	9299-26225-4-2
2000-000-049	SP158710DH	9299-26225-4-4
2000-000-050	SP158712WT	9299-26228-3-1
2000-000-051	SP158714CT	9299-26228-3-2
2000-000-052	SP158717BR	9299-26228-3-3
2000-000-121	SP168702FS	9299-26232-4-1
2000-000-122	SP168708UC	9299-26232-4-2
2000-000-123	SP168710CT	9299-26232-4-3
2000-000-124	SP168711BR	9299-26232-4-4

SOLAR POND BOREHOLE SAMPLES
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DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	2000-000-061			2000-000-062			2000-000-063	
Customer ID:	SP018700FS			SP018704DH			SP018705DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	110 +/- 20	pci/g		34 +/- 10	pci/g		28 +/- 10	pci/g
Gross Beta	8.6 +/- 6.1	pci/g		23 +/- 6	pci/g		14 +/- 6	pci/g
Uranium 233, 234	4.0 +/- 0.6	pci/g		1.7 +/- 0.4	pci/g		2.0 +/- 0.4	pci/g
Uranium 235								
Uranium 238	1.9 +/- 0.4	pci/g		2.1 +/- 0.5	pci/g		2.8 +/- 0.5	pci/g
Strontium 89, 90	0.1 +/- 0.4	pci/g		-0.1 +/- 0.3	pci/g		-0.3 +/- 0.6	pci/g
Plutonium 239, 240	18 +/- 1	pci/g		0.09 +/- 0.14	pci/g		0.32 +/- 0.17	pci/g
Americium 241	2.2 +/- 0.2	pci/g		0.02 +/- 0.06	pci/g		0.06 +/- 0.07	pci/g
Cesium 137								
Tritium	< .63	pci/g		< 0.64	pci/g		< .64	pci/g

Sample Information

RFW Batch ID:	2000-000-064			2000-000-065			2000-000-066	
Customer ID:	SP018711DH			SP018713DH			SP018716BR	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	24 +/- 14	pci/g		26 +/- 14	pci/g		10 +/- 12	pci/g
Gross Beta	29 +/- 7	pci/g		33 +/- 7	pci/g		16 +/- 6	pci/g
Uranium 233, 234	0.52 +/- 0.13	pci/g		0.40 +/- 0.12	pci/g		0.70 +/- 0.14	pci/g
Uranium 235								
Uranium 238	0.61 +/- .014	pci/g		0.54 +/- 0.13	pci/g		0.53 +/- 0.13	pci/g
Strontium 89, 90	0.0 +/- 0.4	pci/g		0.2 +/- 0.4	pci/g		0.2 +/- 0.3	pci/g
Plutonium 239, 240	0.09 +/- 0.14	pci/g		0.00 +/- 0.15	pci/g		0.00 +/- 0.14	pci/g
Americium 241	0.05 +/- 0.08	pci/g		0.04 +/- 0.07	pci/g		0.07 +/- 0.08	pci/g
Cesium 137								
Tritium	< 0.61	pci/g		< .61	pci/g		< .64	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	2000-000-067	2000-000-068	2000-000-128
Customer ID:	SP018721DH	SP018723DH	SP02870008
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	18 +/- 13	pci/g	20 +/- 14	pci/g	14 +/- 13	pci/g
Gross Beta	18 +/- 6	pci/g	17 +/- 6	pci/g	36 +/- 7	pci/g
Uranium 233, 234	0.57 +/- 0.14	pci/g	0.77 +/- 0.16	pci/g	1.5 +/- 0.3	pci/g
Uranium 235						
Uranium 238	0.71 +/- 0.15	pci/g	0.78 +/- 0.16	pci/g	1.2 +/- 0.2	pci/g
Strontium 89, 90	0.2 +/- 0.4	pci/g	0.2 +/- 0.4	pci/g	0.2 +/- 0.3	pci/g
Plutonium 239, 240	-0.03 +/- 0.13	pci/g	0.04 +/- 0.15	pci/g	0.13 +/- 0.15	pci/g
Americium 241	0.07 +/- 0.08	pci/g	0.08 +/- 0.08	pci/g	0.22 +/- 0.13	pci/g
Cesium 137						
Tritium	< .64	pci/g	< .64	pci/g	< .64	pci/g

Sample Information

RFW Batch ID:	2000-000-125	2000-000-126	2000-000-127
Customer ID:	SP028708UC	SP028711CT	SP028713BR
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	21 +/- 9	pci/g	14 +/- 13	pci/g	11 +/- 14	pci/g
Gross Beta	15 +/- 6	pci/g	30 +/- 7	pci/g	7.1 +/- 5.6	pci/g
Uranium 233, 234	0.58 +/- 0.16	pci/g	0.54 +/- 0.14	pci/g	0.26 +/- 0.11	pci/g
Uranium 235						
Uranium 238	0.49 +/- 0.15	pci/g	0.55 +/- 0.14	pci/g	0.19 +/- 0.10	pci/g
Strontium 89, 90	0.4 +/- 0.3	pci/g	0.1 +/- 0.4	pci/g	0.1 +/- 0.3	pci/g
Plutonium 239, 240	-0.02 +/- 0.13	pci/g	0.06 +/- 0.14	pci/g	0.01 +/- 0.14	pci/g
Americium 241	0.02 +/- 0.06	pci/g	0.01 +/- 0.06	pci/g	0.04 +/- 0.07	pci/g
Cesium 137						
Tritium	< .61	pci/g	< .61	pci/g	< .61	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	2000-000-001			2000-000-002			2000-000-003	
Customer ID:	SP038711DH			SP038713CT			SP038716BR	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	21 +/- 14	pci/g		22 +/- 9	pci/g		22 +/- 14	pci/g
Gross Beta	15 +/- 6	pci/g		16 +/- 6	pci/g		21 +/- 7	pci/g
Uranium 233, 234	0.63 +/- 0.21	pci/g		0.61 +/- 0.18	pci/g		0.77 +/- 0.18	pci/g
Uranium 235								
Uranium 238	0.67 +/- 0.22	pci/g		0.47 +/- 0.17	pci/g		0.70 +/- 0.18	pci/g
Strontium 89, 90	-0.1 +/- 0.4	pci/g		0.1 +/- 0.3	pci/g		-0.1 +/- 0.3	pci/g
Plutonium 239, 240	0.05 +/- 0.15	pci/g		-0.01 +/- 0.14	pci/g		0.03 +/- 0.12	pci/g
Americium 241	0.09 +/- 0.12	pci/g		0.05 +/- 0.08	pci/g		0.03 +/- 0.07	pci/g
Cesium 137								
Tritium	< .61	pci/g		1.1 +/- 0.3	pci/g		2.0 +/- 0.3	pci/g

Sample Information

RFW Batch ID:	2000-000-009			2000-000-007			2000-000-008	
Customer ID:	SP0487004D			SP048702DH			SP048704DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	13 +/- 6	pci/g		34 +/- 11	pci/g		57 +/- 13	pci/g
Gross Beta	12 +/- 6	pci/g		15 +/- 6	pci/g		17 +/- 6	pci/g
Uranium 233, 234	0.63 +/- 0.15	pci/g		1.6 +/- 0.2	pci/g		1.1 +/- 0.2	pci/g
Uranium 235								
Uranium 238	0.66 +/- 0.14	pci/g		0.93 +/- 0.16	pci/g		0.86 +/- 0.15	pci/g
Strontium 89, 90	0.1 +/- 0.6	pci/g		0.2 +/- 0.4	pci/g		0.2 +/- 0.6	pci/g
Plutonium 239, 240	0.14 +/- 0.11	pci/g		1.9 +/- 0.3	pci/g		0.01 +/- 0.09	pci/g
Americium 241	0.11 +/- 0.10	pci/g		1.2 +/- 0.2	pci/g		0.06 +/- 0.08	pci/g
Cesium 137								
Tritium	< .64	pci/g		< .61	pci/g		1.3 +/- 0.3	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	2000-000-010		2000-000-014		2000-000-015	
Customer ID:	SP048707DH		SP048712DH		SP048715FS	
Matrix:	Soil		Soil		Soil	
Radio Chemistry						
Gross Alpha.....	16 +/- 17	pci/g	31 +/- 12	pci/g	17 +/- 10	pci/g
Gross Beta.....	17 +/- 6	pci/g	31 +/- 6	pci/g	28 +/- 6	pci/g
Uranium 233, 234.....	0.86 +/- 0.17	pci/g	1.1 +/- 0.2	pci/g	1.1 +/- 0.2	pci/g
Uranium 235.....						
Uranium 238.....	0.81 +/- 0.16	pci/g	1.0 +/- 0.2	pci/g	1.0 +/- 0.2	pci/g
Strontium 89, 90.....	0.2 +/- 0.6	pci/g	0.6 +/- 0.6	pci/g	-0.2 +/- 0.5	pci/g
Plutonium 239, 240.....	0.05 +/- 0.11	pci/g	-0.03 +/- 0.08	pci/g	0.00 +/- 0.08	pci/g
Americium 241.....	0.06 +/- 0.08	pci/g	0.03 +/- 0.07	pci/g	0.06 +/- 0.07	pci/g
Cesium 137.....						
Tritium.....	< .64	pci/g	1.0 +/- 0.3	pci/g	.64 +/- .29	pci/g

Sample Information

RFW Batch ID:	2000-000-016		2000-000-017		2000-000-018	
Customer ID:	SP048717DH		SP048720DH		SP048722DH	
Matrix:	Soil		Soil		Soil	
Radio Chemistry						
Gross Alpha.....	11 +/- 9	pci/g	20 +/- 10	pci/g	32 +/- 12	pci/g
Gross Beta.....	19 +/- 6	pci/g	21 +/- 6	pci/g	22 +/- 6	pci/g
Uranium 233, 234.....	1.0 +/- 0.2	pci/g	1.1 +/- 0.2	pci/g	1.6 +/- 0.4	pci/g
Uranium 235.....						
Uranium 238.....	1.0 +/- 0.2	pci/g	1.2 +/- 0.2	pci/g	1.3 +/- 0.3	pci/g
Strontium 89, 90.....	0.1 +/- 0.6	pci/g	0.0 +/- 0.5	pci/g	-0.1 +/- 0.5	pci/g
Plutonium 239, 240.....	0.03 +/- 0.11	pci/g	-0.06 +/- 0.07	pci/g	-0.04 +/- 0.08	pci/g
Americium 241.....	0.00 +/- 0.06	pci/g	0.10 +/- 0.09	pci/g	0.00 +/- 0.06	pci/g
Cesium 137.....						
Tritium.....	< .58	pci/g	.63 +/- 0.27	pci/g	< .66	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	2000-000-019			2000-000-020			2000-000-021	
Customer ID:	SP048725DH			SP048727DH			SP048730DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	20 +/- 10	pci/g		25 +/- 11	pci/g		25 +/- 11	pci/g
Gross Beta	20 +/- 6	pci/g		22 +/- 6	pci/g		27 +/- 6	pci/g
Uranium 233, 234	1.1 +/- 0.2	pci/g		0.58 +/- 0.18	pci/g		0.82 +/- 0.18	pci/g
Uranium 235								
Uranium 238	1.2 +/- 0.2	pci/g		0.70 +/- 0.19	pci/g		0.98 +/- 0.18	pci/g
Strontium 89, 90	0.1 +/- 0.6	pci/g		0.2 +/- 0.6	pci/g		0.1 +/- 0.5	pci/g
Plutonium 239, 240	-0.03 +/- 0.09	pci/g		-0.04 +/- 0.08	pci/g		0.03 +/- 0.10	pci/g
Americium 241	0.01 +/- 0.06	pci/g		0.02 +/- 0.07	pci/g		0.03 +/- 0.07	pci/g
Cesium 137								
Tritium	< .66	pci/g		< .59	pci/g		< .59	pci/g

Sample Information

RFW Batch ID:	2000-000-030			2000-000-032			2000-000-033	
Customer ID:	SP048732DH			SP058702DH			SP058704DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	12 +/- 9	pci/g		48 +/- 12	pci/g		27 +/- 14	pci/g
Gross Beta	21 +/- 6	pci/g		13 +/- 6	pci/g		14 +/- 6	pci/g
Uranium 233, 234	0.52 +/- 0.12	pci/g		0.75 +/- 0.15	pci/g		0.76 +/- 0.16	pci/g
Uranium 235								
Uranium 238	0.71 +/- 0.13	pci/g		0.64 +/- 0.13	pci/g		0.64 +/- 0.14	pci/g
Strontium 89, 90	0.5 +/- 0.8	pci/g		0.0 +/- 0.6	pci/g		-0.2 +/- 0.4	pci/g
Plutonium 239, 240	-0.02 +/- 0.09	pci/g		0.09 +/- 0.11	pci/g		-0.02 +/- 0.08	pci/g
Americium 241	0.02 +/- 0.07	pci/g		0.08 +/- 0.07	pci/g		0.13 +/- 0.08	pci/g
Cesium 137								
Tritium	< .63	pci/g		< .64	pci/g		< .63	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	2000-000-034		2000-000-035		2000-000-036	
Customer ID:	SP058707DH		SP058710DH		SP058712DH	
Matrix:	Soil		Soil		Soil	
Radio Chemistry						
Gross Alpha	16 +/- 13	pci/g	25 +/- 14	pci/g	21 +/- 14	pci/g
Gross Beta	17 +/- 6	pci/g	13 +/- 6	pci/g	22 +/- 6	pci/g
Uranium 233, 234	0.50 +/- 0.13	pci/g	1.7 +/- 0.2	pci/g	1.2 +/- 0.2	pci/g
Uranium 235						
Uranium 238	0.39 +/- 0.11	pci/g	1.4 +/- 0.2	pci/g	0.92 +/- 0.15	pci/g
Strontium 89, 90	-0.2 +/- 0.6	pci/g	0.1 +/- 0.7	pci/g	0.1 +/- 0.6	pci/g
Plutonium 239, 240	0.04 +/- 0.09	pci/g	0.00 +/- 0.09	pci/g	0.13 +/- 0.11	pci/g
Americium 241	0.06 +/- 0.06	pci/g	0.00 +/- 0.04	pci/g	0.04 +/- 0.05	pci/g
Cesium 137						
Tritium	< .61	pci/g	1.1 +/- 0.3	pci/g	1.3 +/- 0.3	pci/g

Sample Information

RFW Batch ID:	2000-000-037		2000-000-109		2000-000-110	
Customer ID:	SP058716DH		SP068702FS		SP068708DH	
Matrix:	Soil		Soil		Soil	
Radio Chemistry						
Gross Alpha	16 +/- 12	pci/g	21 +/- 9	pci/g	25 +/- 9	pci/g
Gross Beta	16 +/- 6	pci/g	30 +/- 6	pci/g	13 +/- 5	pci/g
Uranium 233, 234	1.2 +/- 0.2	pci/g	1.2 +/- 0.2	pci/g	0.52 +/- 0.13	pci/g
Uranium 235						
Uranium 238	0.95 +/- 0.18	pci/g	0.90 +/- 0.18	pci/g	0.59 +/- 0.14	pci/g
Strontium 89, 90	-0.2 +/- 0.7	pci/g	-0.2 +/- 0.5	pci/g	0.0 +/- 0.5	pci/g
Plutonium 239, 240	0.50 +/- 0.16	pci/g	0.52 +/- 0.16	pci/g	0.09 +/- 0.08	pci/g
Americium 241	0.05 +/- 0.07	pci/g	0.50 +/- 0.17	pci/g	0.07 +/- 0.10	pci/g
Cesium 137						
Tritium	3.3 +/- 0.3	pci/g	< .60	pci/g	< 0.60	pci/g

SOLAR POND BOREHOLE SAMPLES
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Sample Information

RFW Batch ID:	2000-000-111			2000-000-112			2000-000-113	
Customer ID:	SP068711DH			SP068713DH			SP068716DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	19 +/- 9	pci/g		14 +/- 8	pci/g		31 +/- 11	pci/g
Gross Beta	14 +/- 6	pci/g		14 +/- 6	pci/g		18 +/- 6	pci/g
Uranium 233, 234	0.75 +/- 0.17	pci/g		0.50 +/- 0.13	pci/g		0.70 +/- 0.15	pci/g
Uranium 235								
Uranium 238	0.72 +/- 0.16	pci/g		0.38 +/- 0.11	pci/g		0.82 +/- 0.16	pci/g
Strontium 89, 90	0.0 +/- 0.5	pci/g		0.1 +/- 0.4	pci/g		0.2 +/- 0.5	pci/g
Plutonium 239, 240	-0.02 +/- 0.07	pci/g		0.03 +/- 0.09	pci/g		0.02 +/- 0.09	pci/g
Americium 241	0.01 +/- 0.09	pci/g		0.08 +/- 0.11	pci/g		0.01 +/- 0.10	pci/g
Cesium 137								
Tritium	< .60	pci/g		< .60	pci/g		< .60	pci/g

Sample Information

RFW Batch ID:	2000-000-114			2000-000-115			2000-000-086	
Customer ID:	SP068718DH			SP068721DH			SP068724DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	39 +/- 11	pci/g		21 +/- 9	pci/g		30 +/- 10	pci/g
Gross Beta	21 +/- 6	pci/g		25 +/- 6	pci/g		28 +/- 6	pci/g
Uranium 233, 234	1.8 +/- 0.3	pci/g		1.2 +/- 0.2	pci/g		1.4 +/- 0.2	pci/g
Uranium 235								
Uranium 238	1.7 +/- 0.2	pci/g		1.6 +/- 0.2	pci/g		1.0 +/- 0.2	pci/g
Strontium 89, 90	0.6 +/- 0.7	pci/g		0.2 +/- 1.1	pci/g		0.4 +/- 1.0	pci/g
Plutonium 239, 240	0.05 +/- 0.09	pci/g		-0.04 +/- 0.07	pci/g		-0.01 +/- 0.08	pci/g
Americium 241	0.04 +/- 0.10	pci/g		0.03 +/- 0.10	pci/g		0.04 +/- 0.09	pci/g
Cesium 137								
Tritium	< .60	pci/g		< .60	pci/g		< .60	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	2000-000-087			2000-000-099			2000-000-100	
Customer ID:	SP068726DH			SP078700DH			SP078702DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	36 +/- 11	pci/g		24 +/- 10	pci/g		30 +/- 10	pci/g
Gross Beta	23 +/- 6	pci/g		15 +/- 6	pci/g		14 +/- 6	pci/g
Uranium 233, 234	1.1 +/- 0.2	pci/g		0.97 +/- 0.26	pci/g		0.60 +/- 0.12	pci/g
Uranium 235								
Uranium 238	1.3 +/- 0.2	pci/g		0.91 +/- 0.26	pci/g		0.56 +/- 0.12	pci/g
Strontium 89, 90	-0.2 +/- 1.0	pci/g		0.2 +/- 0.5	pci/g		0.0 +/- 0.7	pci/g
Plutonium 239, 240	0.16 +/- 0.22	pci/g		2.2 +/- 0.3	pci/g		0.10 +/- 0.11	pci/g
Americium 241	0.05 +/- 0.10	pci/g		0.61 +/- 0.18	pci/g		0.21 +/- 0.17	pci/g
Cesium 137								
Tritium	< .60	pci/g		< .66	pci/g		< .66	pci/g

Sample Information

RFW Batch ID:	2000-000-101			2000-000-102			2000-000-103	
Customer ID:	SP078708FS			SP078711DH			SP078713DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	23 +/- 9	pci/g		11 +/- 8	pci/g		22 +/- 9	pci/g
Gross Beta	12 +/- 6	pci/g		15 +/- 6	pci/g		16 +/- 6	pci/g
Uranium 233, 234	0.50 +/- 0.15	pci/g		0.42 +/- 0.11	pci/g		0.47 +/- 0.13	pci/g
Uranium 235								
Uranium 238	0.54 +/- 0.16	pci/g		0.50 +/- 0.12	pci/g		0.62 +/- 0.16	pci/g
Strontium 89, 90	0.0 +/- 0.5	pci/g		-0.1 +/- 0.5	pci/g		0.2 +/- 0.6	pci/g
Plutonium 239, 240	0.05 +/- 0.10	pci/g		0.06 +/- 0.10	pci/g		0.03 +/- 0.10	pci/g
Americium 241	-0.03 +/- 0.09	pci/g		0.00 +/- 0.09	pci/g		-0.06 +/- 0.09	pci/g
Cesium 137								
Tritium	< .59	pci/g		< .61	pci/g		0.65 +/- 0.27	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	2000-000-104			2000-000-105			2000-000-106	
Customer ID:	SP078716DH			SP078718WT			SP078721CT	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	23 +/- 10	pci/g		16 +/- 8	pci/g		33 +/- 11	pci/g
Gross Beta	23 +/- 6	pci/g		11 +/- 5	pci/g		23 +/- 6	pci/g
Uranium 233, 234	0.60 +/- 0.13	pci/g		0.88 +/- 0.18	pci/g		1.5 +/- 0.2	pci/g
Uranium 235								
Uranium 238	0.41 +/- 0.11	pci/g		0.70 +/- 0.16	pci/g		1.6 +/- 0.2	pci/g
Strontium 89, 90	0.2 +/- 0.7	pci/g		0.0 +/- 0.6	pci/g		-0.2 +/- 0.7	pci/g
Plutonium 239, 240	-0.02 +/- 0.09	pci/g		-0.01 +/- 0.08	pci/g		-0.01 +/- 0.10	pci/g
Americium 241	0.00 +/- 0.10	pci/g		0.05 +/- 0.10	pci/g		-0.01 +/- 0.03	pci/g
Cesium 137								
Tritium	0.70 +/- 0.28	pci/g		1.3 +/- 0.3	pci/g		2.3 +/- 0.3	pci/g

Sample Information

RFW Batch ID:	2000-000-107			2000-000-108			2000-000-004	
Customer ID:	SP078723BR			SP078726DH			SP088703UC	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	27 +/- 10	pci/g		20 +/- 9	pci/g		32 +/- 11	pci/g
Gross Beta	26 +/- 6	pci/g		22 +/- 6	pci/g		28 +/- 6	pci/g
Uranium 233, 234	1.2 +/- 0.2	pci/g		1.1 +/- 0.2	pci/g		1.1 +/- 0.2	pci/g
Uranium 235								
Uranium 238	1.6 +/- 0.2	pci/g		1.2 +/- 0.2	pci/g		1.0 +/- 0.2	pci/g
Strontium 89, 90	0.6 +/- 0.9	pci/g		0.1 +/- 0.9	pci/g		0.4 +/- 0.7	pci/g
Plutonium 239, 240	0.01 +/- 0.09	pci/g		0.05 +/- 0.11	pci/g		0.02 +/- 0.14	pci/g
Americium 241	0.01 +/- 0.09	pci/g		0.00 +/- 0.09	pci/g		0.02 +/- 0.06	pci/g
Cesium 137								
Tritium	< .60	pci/g		< .60	pci/g		3.0 +/- 0.3	pci/g

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Sample Information

RFW Batch ID:	2000-000-005			2000-000-006			2000-000-011	
Customer ID:	SP088706CT			SP088709BR			SP098703UC	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	31 +/- 10	pci/g		12 +/- 12	pci/g		25 +/- 11	pci/g
Gross Beta	24 +/- 6	pci/g		14 +/- 6	pci/g		21 +/- 6	pci/g
Uranium 233, 234	0.87 +/- 0.15	pci/g		1.0 +/- 0.2	pci/g		0.45 +/- 0.12	pci/g
Uranium 235								
Uranium 238	0.65 +/- 0.13	pci/g		0.79 +/- 0.17	pci/g		0.43 +/- 0.11	pci/g
Strontium 89, 90	-0.4 +/- 0.7	pci/g		0.0 +/- 0.7	pci/g		-0.1 +/- 0.6	pci/g
Plutonium 239, 240	-0.01 +/- 0.13	pci/g		0.03 +/- 0.11	pci/g		0.00 +/- 0.09	pci/g
Americium 241	0.01 +/- 0.07	pci/g		0.06 +/- 0.09	pci/g		0.02 +/- 0.08	pci/g
Cesium 137								
Tritium	2.8 +/- 0.3	pci/g		3.8 +/- 0.4	pci/g		0.86 +/- 0.28	pci/g

Sample Information

RFW Batch ID:	2000-000-012			2000-000-013			2000-000-077	
Customer ID:	SP098706CT			SP098708BR			SP108700DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	18 +/- 10	pci/g		18 +/- 10	pci/g		40 +/- 12	pci/g
Gross Beta	28 +/- 6	pci/g		19 +/- 6	pci/g		21 +/- 6	pci/g
Uranium 233, 234	0.94 +/- 0.18	pci/g		0.84 +/- 0.16	pci/g		1.4 +/- 0.2	pci/g
Uranium 235								
Uranium 238	1.1 +/- 0.2	pci/g		0.91 +/- 0.16	pci/g		0.67 +/- 0.16	pci/g
Strontium 89, 90	-0.2 +/- 0.6	pci/g		-0.1 +/- 0.7	pci/g		-0.6 +/- 0.7	pci/g
Plutonium 239, 240	-0.05 +/- 0.07	pci/g		0.02 +/- 0.09	pci/g		3.5 +/- 0.3	pci/g
Americium 241	0.06 +/- 0.08	pci/g		0.00 +/- 0.06	pci/g		0.59 +/- 0.19	pci/g
Cesium 137								
Tritium	< .61	pci/g		< .66	pci/g		< .62	pci/g

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Sample Information

RFW Batch ID:	2000-000-041	2000-000-078	2000-000-079
Customer ID:	SP1087017D	SP108702DH	SP108704BR
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	30 +/- 11	pci/g	27 +/- 10	pci/g	33 +/- 16	pci/g
Gross Beta	23 +/- 6	pci/g	20 +/- 6	pci/g	26 +/- 7	pci/g
Uranium 233, 234	0.60 +/- 0.14	pci/g	3.7 +/- 0.4	pci/g	1.6 +/- 0.2	pci/g
Uranium 235						
Uranium 238	0.65 +/- 0.14	pci/g	0.88 +/- 0.18	pci/g	0.68 +/- 0.14	pci/g
Strontium 89, 90	-0.2 +/- 0.6	pci/g	0.2 +/- 0.7	pci/g	-0.3 +/- 0.6	pci/g
Plutonium 239, 240	0.00 +/- 0.09	pci/g	0.24 +/- 0.12	pci/g	0.13 +/- 0.11	pci/g
Americium 241	0.02 +/- 0.06	pci/g	0.07 +/- 0.09	pci/g	0.09 +/- 0.07	pci/g
Cesium 137						
Tritium	< .59	pci/g	< .61	pci/g	< .61	pci/g

Sample Information

RFW Batch ID:	2000-000-080	2000-000-081	2000-000-082
Customer ID:	SP108705DH	SP108707DH	SP108709DH
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	19 +/- 13	pci/g	32 +/- 15	pci/g	16 +/- 12	pci/g
Gross Beta	22 +/- 6	pci/g	22 +/- 6	pci/g	29 +/- 7	pci/g
Uranium 233, 234	1.0 +/- 0.2	pci/g	0.66 +/- 0.13	pci/g	1.0 +/- 0.2	pci/g
Uranium 235						
Uranium 238	0.68 +/- 0.14	pci/g	0.59 +/- 0.12	pci/g	0.97 +/- 0.19	pci/g
Strontium 89, 90	0.1 +/- 0.7	pci/g	-0.3 +/- 0.7	pci/g	1.1 +/- 0.9	pci/g
Plutonium 239, 240	0.06 +/- 0.13	pci/g	0.00 +/- 0.09	pci/g	0.03 +/- 0.09	pci/g
Americium 241	0.16 +/- 0.09	pci/g	0.06 +/- 0.06	pci/g	0.07 +/- 0.06	pci/g
Cesium 137						
Tritium	< .63	pci/g	< .63	pci/g	< .58	pci/g

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Sample Information

RFW Batch ID:	2000-000-083	2000-000-084	2000-000-085
Customer ID:	SP108711DH	SP108713DH	SP108715DH
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	42 +/- 16	pci/g	19 +/- 13	pci/g	20 +/- 13	pci/g
Gross Beta	20 +/- 6	pci/g	27 +/- 7	pci/g	22 +/- 6	pci/g
Uranium 233, 234	0.49 +/- 0.13	pci/g	0.45 +/- 0.16	pci/g	0.63 +/- 0.15	pci/g
Uranium 235						
Uranium 238	0.64 +/- 0.14	pci/g	0.73 +/- 0.18	pci/g	0.70 +/- 0.16	pci/g
Strontium 89, 90	-0.4 +/- 0.6	pci/g	0.0 +/- 0.6	pci/g	-0.2 +/- 0.6	pci/g
Plutonium 239, 240	0.00 +/- 0.09	pci/g	0.03 +/- 0.09	pci/g	-0.01 +/- 0.08	pci/g
Americium 241	0.00 +/- 0.04	pci/g	0.01 +/- 0.05	pci/g	0.03 +/- 0.06	pci/g
Cesium 137						
Tritium	0.65 +/- 0.28	pci/g	< .64	pci/g	< .63	pci/g

Sample Information

RFW Batch ID:	2000-000-040	2000-000-042	2000-000-043
Customer ID:	SP108717DH	SP108719DH	SP108721WT
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	21 +/- 10	pci/g	32 +/- 12	pci/g	28 +/- 11	pci/g
Gross Beta	22 +/- 6	pci/g	17 +/- 6	pci/g	24 +/- 6	pci/g
Uranium 233, 234	1.0 +/- 0.2	pci/g	1.4 +/- 0.2	pci/g	1.1 +/- 0.2	pci/g
Uranium 235						
Uranium 238	0.96 +/- 0.17	pci/g	1.4 +/- 0.2	pci/g	0.99 +/- 0.19	pci/g
Strontium 89, 90	-0.3 +/- 0.5	pci/g	-0.3 +/- 0.7	pci/g	0.1 +/- 0.6	pci/g
Plutonium 239, 240	0.04 +/- 0.11	pci/g	0.01 +/- 0.10	pci/g	-0.02 +/- 0.08	pci/g
Americium 241	-0.03 +/- 0.04	pci/g	0.11 +/- 0.09	pci/g	0.00 +/- 0.06	pci/g
Cesium 137						
Tritium	< .61	pci/g	< .63	pci/g	< .60	pci/g

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Sample Information

RFW Batch ID:	2000-000-044	2000-000-045	2000-000-022
Customer ID:	SP108723DH	SP108724DH	SP11870008
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	24 +/- 11	pci/g	32 +/- 12	pci/g	23 +/- 9	pci/g
Gross Beta	22 +/- 6	pci/g	19 +/- 6	pci/g	28 +/- 6	pci/g
Uranium 233, 234	1.2 +/- 0.2	pci/g	0.48 +/- 0.13	pci/g	0.77 +/- 0.21	pci/g
Uranium 235						
Uranium 238	1.1 +/- 0.2	pci/g	0.58 +/- 0.14	pci/g	0.83 +/- 0.21	pci/g
Strontium 89, 90	0.4 +/- 0.7	pci/g	-0.1 +/- 0.7	pci/g	0.1 +/- 0.6	pci/g
Plutonium 239, 240	-0.04 +/- 0.08	pci/g	-0.06 +/- 0.10	pci/g	-0.04 +/- 0.10	pci/g
Americium 241	0.04 +/- 0.06	pci/g	-0.02 +/- 0.05	pci/g	-0.01 +/- 0.03	pci/g
Cesium 137						
Tritium	0.60 +/- 0.27	pci/g	< .59	pci/g	< .88	pci/g

Sample Information

RFW Batch ID:	2000-000-069	2000-000-023	2000-000-024
Customer ID:	SP118708DH	SP118711DH	SP118714DH
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	36 +/- 12	pci/g	30 +/- 13	pci/g	30 +/- 12	pci/g
Gross Beta	32 +/- 6	pci/g	25 +/- 6	pci/g	24 +/- 6	pci/g
Uranium 233, 234	1.2 +/- 0.2	pci/g	1.1 +/- 0.3	pci/g	0.84 +/- 0.20	pci/g
Uranium 235						
Uranium 238	1.2 +/- 0.2	pci/g	1.3 +/- 0.3	pci/g	0.83 +/- 0.19	pci/g
Strontium 89, 90	-0.3 +/- 0.8	pci/g	0.1 +/- 0.4	pci/g	0.1 +/- 0.5	pci/g
Plutonium 239, 240	0.02 +/- 0.12	pci/g	-0.01 +/- 0.11	pci/g	-0.02 +/- 0.09	pci/g
Americium 241	0.02 +/- 0.07	pci/g	0.00 +/- 0.06	pci/g	-0.04 +/- 0.05	pci/g
Cesium 137						
Tritium	< .66	pci/g	< .60	pci/g	< .58	pci/g

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Sample Information

RFW Batch ID:	2000-000-025			2000-000-026			2000-000-027	
Customer ID:	SP118716DH			SP118719DH			SP118721DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	20 +/- 10	pci/g		38 +/- 11	pci/g		32 +/- 10	pci/g
Gross Beta	19 +/- 6	pci/g		30 +/- 7	pci/g		28 +/- 6	pci/g
Uranium 233, 234	1.7 +/- 0.2	pci/g		1.3 +/- 0.2	pci/g		0.87 +/- 0.23	pci/g
Uranium 235								
Uranium 238	1.7 +/- 0.2	pci/g		1.4 +/- 0.2	pci/g		0.86 +/- 0.22	pci/g
Strontium 89, 90	0.0 +/- 0.4	pci/g		0.0 +/- 0.4	pci/g		0.3 +/- 0.5	pci/g
Plutonium 239, 240	-0.04 +/- 0.09	pci/g		0.00 +/- 0.10	pci/g		-0.06 +/- 0.08	pci/g
Americium 241	0.02 +/- 0.06	pci/g		0.01 +/- 0.06	pci/g		-0.03 +/- 0.05	pci/g
Cesium 137								
Tritium	< .66	pci/g		< .58	pci/g		< .58	pci/g

Sample Information

RFW Batch ID:	2000-000-028			2000-000-029			2000-000-031	
Customer ID:	SP118724DH			SP118726DH			SP118729DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	34 +/- 12	pci/g		24 +/- 11	pci/g		21 +/- 11	pci/g
Gross Beta	29 +/- 6	pci/g		32 +/- 6	pci/g		31 +/- 6	pci/g
Uranium 233, 234	1.1 +/- 0.2	pci/g		1.2 +/- 0.2	pci/g		0.84 +/- 0.16	pci/g
Uranium 235								
Uranium 238	0.91 +/- 0.19	pci/g		1.1 +/- 0.2	pci/g		0.91 +/- 0.17	pci/g
Strontium 89, 90	0.3 +/- 0.4	pci/g		0.1 +/- 0.4	pci/g		0.1 +/- 0.6	pci/g
Plutonium 239, 240	-0.02 +/- 0.09	pci/g		0.05 +/- 0.11	pci/g		-0.01 +/- 0.10	pci/g
Americium 241	-0.04 +/- 0.05	pci/g		0.00 +/- 0.06	pci/g		-0.02 +/- 0.06	pci/g
Cesium 137								
Tritium	< .58	pci/g		< .66	pci/g		< .63	pci/g

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Sample Information

RFW Batch ID:	2000-000-088			2000-000-089			2000-000-038	
Customer ID:	SP12870009			SP12870916			SP128716DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	24 +/- 10	pci/g		12 +/- 9	pci/g		9 +/- 12	pci/g
Gross Beta	27 +/- 6	pci/g		23 +/- 6	pci/g		23 +/- 7	pci/g
Uranium 233, 234	1.1 +/- 0.2	pci/g		1.2 +/- 0.2	pci/g		0.86 +/- 0.16	pci/g
Uranium 235								
Uranium 238	1.1 +/- 0.2	pci/g		1.1 +/- 0.2	pci/g		0.77 +/- 0.15	pci/g
Strontium 89, 90	-0.2 +/- 0.6	pci/g		-0.1 +/- 0.6	pci/g		0.2 +/- 0.5	pci/g
Plutonium 239, 240	0.01 +/- 0.07	pci/g		0.01 +/- 0.07	pci/g		-0.05 +/- 0.07	pci/g
Americium 241	0.00 +/- 0.06	pci/g		0.05 +/- 0.06	pci/g		0.03 +/- 0.05	pci/g
Cesium 137								
Tritium	< .61	pci/g		< .61	pci/g		< .61	pci/g

Sample Information

RFW Batch ID:	2000-000-039			2000-000-090			2000-000-091	
Customer ID:	SP128719DH			SP128721DH			SP128724DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	10 +/- 11	pci/g		19 +/- 10	pci/g		12 +/- 9	pci/g
Gross Beta	22 +/- 6	pci/g		28 +/- 6	pci/g		6.6 +/- 5.5	pci/g
Uranium 233, 234	0.51 +/- 0.12	pci/g		0.85 +/- 0.16	pci/g		0.38 +/- 0.12	pci/g
Uranium 235								
Uranium 238	0.76 +/- 0.15	pci/g		0.84 +/- 0.16	pci/g		0.57 +/- 0.15	pci/g
Strontium 89, 90	0.1 +/- 0.5	pci/g		-0.4 +/- 0.6	pci/g		0.0 +/- 0.5	pci/g
Plutonium 239, 240	0.03 +/- 0.10	pci/g		0.00 +/- 0.09	pci/g		-0.01 +/- 0.09	pci/g
Americium 241	0.00 +/- 0.04	pci/g		-0.01 +/- 0.06	pci/g		0.03 +/- 0.06	pci/g
Cesium 137								
Tritium	< .62	pci/g		< .59	pci/g		< .63	pci/g

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Sample Information

RFW Batch ID:	2000-000-092			2000-000-093			2000-000-094	
Customer ID:	SP128726DH			SP128729DH			SP128731DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	21 +/- 10	pci/g		32 +/- 12	pci/g		28 +/- 11	pci/g
Gross Beta	15 +/- 6	pci/g		31 +/- 7	pci/g		28 +/- 6	pci/g
Uranium 233, 234	0.83 +/- 0.16	pci/g		1.7 +/- 0.2	pci/g		1.6 +/- 0.2	pci/g
Uranium 235								
Uranium 238	0.86 +/- 0.16	pci/g		1.5 +/- 0.2	pci/g		1.4 +/- 0.2	pci/g
Strontium 89, 90	-0.2 +/- 0.8	pci/g		-0.5 +/- 0.6	pci/g		0.3 +/- 0.9	pci/g
Plutonium 239, 240	-0.01 +/- 0.07	pci/g		0.01 +/- 0.10	pci/g		0.02 +/- 0.09	pci/g
Americium 241	0.03 +/- 0.09	pci/g		0.02 +/- 0.07	pci/g		-0.02 +/- 0.05	pci/g
Cesium 137								
Tritium	< .61	pci/g		< .61	pci/g		< .61	pci/g

Sample Information

RFW Batch ID:	2000-000-095			2000-000-096			2000-000-097	
Customer ID:	SP128734DH			SP128739DH			SP128741DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	30 +/- 11	pci/g		39 +/- 12	pci/g		34 +/- 12	pci/g
Gross Beta	27 +/- 6	pci/g		24 +/- 6	pci/g		21 +/- 6	pci/g
Uranium 233, 234	1.5 +/- 0.2	pci/g		1.7 +/- 0.3	pci/g		1.2 +/- 0.2	pci/g
Uranium 235								
Uranium 238	1.3 +/- 0.2	pci/g		1.6 +/- 0.2	pci/g		1.1 +/- 0.2	pci/g
Strontium 89, 90	0.8 +/- 0.8	pci/g		-0.2 +/- 0.6	pci/g		0.1 +/- 0.5	pci/g
Plutonium 239, 240	0.02 +/- 0.10	pci/g		0.01 +/- 0.09	pci/g		-0.03 +/- 0.08	pci/g
Americium 241	-0.02 +/- 0.05	pci/g		-0.03 +/- 0.04	pci/g		-0.03 +/- 0.04	pci/g
Cesium 137								
Tritium	< .64	pci/g		< .61	pci/g		< .64	pci/g

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Sample Information

RFW Batch ID:	2000-000-070			2000-000-071			2000-000-072	
Customer ID:	SP138700UC			SP138701CT			SP138703BR	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	30 +/- 14	pci/g		30 +/- 14	pci/g		19 +/- 13	pci/g
Gross Beta	25 +/- 7	pci/g		22 +/- 6	pci/g		23 +/- 6	pci/g
Uranium 233, 234	0.77 +/- 0.18	pci/g		0.66 +/- 0.18	pci/g		1.3 +/- 0.2	pci/g
Uranium 235								
Uranium 238	0.93 +/- 0.19	pci/g		1.1 +/- 0.2	pci/g		1.5 +/- 0.2	pci/g
Strontium 89, 90	0.0 +/- 0.7	pci/g		0.5 +/- 0.9	pci/g		-0.4 +/- 0.5	pci/g
Plutonium 239, 240	0.05 +/- 0.12	pci/g		0.05 +/- 0.10	pci/g		-0.06 +/- 0.09	pci/g
Americium 241	-0.02 +/- 0.06	pci/g		-0.03 +/- 0.05	pci/g		-0.02 +/- 0.06	pci/g
Cesium 137								
Tritium	< .58	pci/g		< .58	pci/g		< .58	pci/g

Sample Information

RFW Batch ID:	2000-000-073			2000-000-075			2000-000-076	
Customer ID:	SP138706DH			SP138709DH			SP138711DH	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	29 +/- 10	pci/g		36 +/- 15	pci/g		16 +/- 12	pci/g
Gross Beta	22 +/- 6	pci/g		29 +/- 7	pci/g		18 +/- 6	pci/g
Uranium 233, 234	1.3 +/- 0.2	pci/g		1.2 +/- 0.2	pci/g		1.7 +/- 0.2	pci/g
Uranium 235								
Uranium 238	1.2 +/- 0.2	pci/g		1.3 +/- 0.2	pci/g		1.5 +/- 0.2	pci/g
Strontium 89, 90	0.0 +/- 0.6	pci/g		-0.3 +/- 0.7	pci/g		-0.4 +/- 0.6	pci/g
Plutonium 239, 240	-0.04 +/- 0.09	pci/g		-0.01 +/- 0.09	pci/g		0.02 +/- 0.10	pci/g
Americium 241	-0.03 +/- 0.06	pci/g		-0.02 +/- 0.06	pci/g		0.00 +/- 0.07	pci/g
Cesium 137								
Tritium	< .58	pci/g		< .66	pci/g		< .58	pci/g

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Sample Information

RFW Batch ID:	2000-000-074			2000-000-098			2000-000-046	
Customer ID:	SP13876DUP			SP148702CT			SP148704BR	
Matrix:	Soil			Soil			Soil	
Radio Chemistry								
Gross Alpha	27 +/- 14	pci/g		26 +/- 11	pci/g		31 +/- 12	pci/g
Gross Beta	22 +/- 6	pci/g		23 +/- 6	pci/g		20 +/- 6	pci/g
Uranium 233, 234	1.2 +/- 0.2	pci/g		0.93 +/- 0.17	pci/g		0.67 +/- 0.14	pci/g
Uranium 235								
Uranium 238	1.2 +/- 0.2	pci/g		1.1 +/- 0.2	pci/g		0.64 +/- 0.14	pci/g
Strontium 89, 90	0.0 +/- 0.8	pci/g		0.1 +/- 0.7	pci/g		-0.1 +/- 0.6	pci/g
Plutonium 239, 240	0.01 +/- 0.10	pci/g		-0.02 +/- 0.09	pci/g		-0.04 +/- 0.08	pci/g
Americium 241	0.03 +/- 0.07	pci/g		-0.03 +/- 0.05	pci/g		-0.06 +/- 0.08	pci/g
Cesium 137								
Tritium	< .61	pci/g		< .61	pci/g		< .60	pci/g

Sample Information

RFW Batch ID:	2000-000-048			2000-000-129			2000-000-047	
Customer ID:	SP1587008D			SP158702DH			SP158708DH	
Matrix:	Soil						Soil	
Radio Chemistry								
Gross Alpha	10 +/- 9	pci/g					18 +/- 10	pci/g
Gross Beta	21 +/- 6	pci/g					15 +/- 6	pci/g
Uranium 233, 234	0.71 +/- 0.16	pci/g					0.64 +/- 0.14	pci/g
Uranium 235								
Uranium 238	0.61 +/- 0.14	pci/g					0.51 +/- 0.13	pci/g
Strontium 89, 90	-0.1 +/- 0.6	pci/g					0.2 +/- 0.5	pci/g
Plutonium 239, 240	-0.03 +/- 0.09	pci/g					0.04 +/- 0.10	pci/g
Americium 241	-0.04 +/- 0.09	pci/g					-0.04 +/- 0.09	pci/g
Cesium 137								
Tritium	< .60	pci/g		< .60	pci/g		< .59	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	2000-000-049	2000-000-050	2000-000-051
Customer ID:	SP158710DH	SP158712WT	SP158714CT
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	24 +/- 10	pci/g	31 +/- 10	pci/g	28 +/- 10	pci/g
Gross Beta	10 +/- 6	pci/g	21 +/- 6	pci/g	30 +/- 6	pci/g
Uranium 233, 234	0.82 +/- 0.17	pci/g	1.2 +/- 0.2	pci/g	1.1 +/- 0.2	pci/g
Uranium 235						
Uranium 238	0.60 +/- 0.15	pci/g	1.3 +/- 0.2	pci/g	1.1 +/- 0.2	pci/g
Strontium 89, 90	0.2 +/- 0.7	pci/g	-0.2 +/- 0.6	pci/g	0.3 +/- 0.7	pci/g
Plutonium 239, 240	-0.02 +/- 0.09	pci/g	-0.04 +/- 0.07	pci/g	-0.02 +/- 0.08	pci/g
Americium 241	0.00 +/- 0.10	pci/g	0.03 +/- 0.10	pci/g	0.05 +/- 0.10	pci/g
Cesium 137						
Tritium	< .60	pci/g	< .61	pci/g	< .64	pci/g

Sample Information

RFW Batch ID:	2000-000-052	2000-000-121	2000-000-122
Customer ID:	SP158717BR	SP168702FS	SP168708UC
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	29 +/- 10	pci/g	59 +/- 18	pci/g	23 +/- 13	pci/g
Gross Beta	31 +/- 6	pci/g	31 +/- 7	pci/g	19 +/- 6	pci/g
Uranium 233, 234	1.1 +/- 0.2	pci/g	1.1 +/- 0.2	pci/g	0.49 +/- 0.12	pci/g
Uranium 235						
Uranium 238	1.2 +/- 0.2	pci/g	0.78 +/- 0.16	pci/g	0.65 +/- 0.14	pci/g
Strontium 89, 90	0.2 +/- 0.8	pci/g	-0.4 +/- 0.6	pci/g	-0.4 +/- 0.7	pci/g
Plutonium 239, 240	-0.02 +/- 0.08	pci/g	9.0 +/- 0.6	pci/g	0.00 +/- 0.14	pci/g
Americium 241	0.01 +/- 0.10	pci/g	0.96 +/- 0.26	pci/g	0.00 +/- 0.09	pci/g
Cesium 137						
Tritium	< .61	pci/g	< .60	pci/g	< .63	pci/g

SOLAR POND BOREHOLE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	2000-000-123	2000-000-124
Customer ID:	SP168710CT	SP168711BR
Matrix:	Soil	Soil

Radio Chemistry

Gross Alpha.....	28 +/- 14	pci/g	40 +/- 15	pci/g
Gross Beta.....	25 +/- 7	pci/g	24 +/- 6	pci/g
Uranium 233, 234.....	0.62 +/- 0.13	pci/g	0.55 +/- 0.13	pci/g
Uranium 235.....				
Uranium 238.....	0.55 +/- 0.13	pci/g	0.59 +/- 0.14	pci/g
Strontium 89, 90.....	-0.1 +/- 0.5	pci/g	0.0 +/- 0.6	pci/g
Plutonium 239, 240.....	-0.05 +/- 0.14	pci/g	-0.01 +/- 0.15	pci/g
Americium 241.....	0.03 +/- 0.09	pci/g	0.02 +/- 0.10	pci/g
Cesium 137.....				
Tritium.....	< .60	pci/g	< .63	pci/g

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
1000-000-198	C188608860	22578-2-1
1000-000-199	C188608861	22578-2-2
1000-000-200	C188608862	22579-1-1
1000-000-201	C208609860	22674-3-1
1000-000-202	C208609861	22674-3-2
1000-000-203	C208609862	22674-3-3
1000-000-204	C228609860	22673-3-1
1000-000-205	C228609861	22673-3-2
1000-000-206	C228609862	22673-3-3
1000-000-207	C258608860	22676-1-1
1000-000-208	C258608861	22606-2-1
1000-000-209	C258608862	22606-2-2
1000-000-210	C278609860	22675-3-1
1000-000-211	C278609861	22675-3-2
1000-000-212	C278609862	22675-3-3

SOLAR POND CORE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	1000-000-198	1000-000-199	1000-000-200
Customer ID:	C188608860	C188608861	C188608862
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	15 +/- 9	pci/g	19 +/- 9	pci/g	27 +/- 10	pci/g
Gross Beta	27 +/- 6	pci/g	22 +/- 6	pci/g	33 +/- 6	pci/g
Uranium 233, 234	1.1 +/- 0.2	pci/g	0.83 +/- 0.20	pci/g	1.0 +/- 0.2	pci/g
Uranium 235	NR		NR		NR	
Uranium 238	1.2 +/- 0.2	pci/g	1.2 +/- 0.2	pci/g	1.0 +/- 0.2	pci/g
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	0.01 +/- 0.02	pci/g	0.01 +/- 0.02	pci/g	-0.01 +/- 0.01	pci/g
Americium 241	0.00 +/- 0.01	pci/g	0.01 +/- 0.01	pci/g	0.00 +/- 0.01	pci/g
Cesium 137	NR		NR		NR	
Tritium	0.19 +/- 0.21	pci/ml	-0.07 +/- 0.21	pci/ml	-0.02 +/- 0.21	pci/ml

Sample Information

RFW Batch ID:	1000-000-201	1000-000-202	1000-000-203
Customer ID:	C208609860	C208609861	C208609862
Matrix:			

Radio Chemistry

Gross Alpha	43 +/- 13	pci/g	28 +/- 11	pci/g	39 +/- 12	pci/g
Gross Beta	36 +/- 7	pci/g	17 +/- 6	pci/g	34 +/- 7	pci/g
Uranium 233, 234	1.3 +/- 0.2	pci/g	0.44 +/- 0.15	pci/g	1.0 +/- 0.2	pci/g
Uranium 235	NR		NR		NR	
Uranium 238	2.7 +/- 0.3	pci/g	1.4 +/- 0.3	pci/g	2.1 +/- 0.4	pci/g
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	0.37 +/- 0.06	pci/g	0.00 +/- 0.02	pci/g	-0.01 +/- 0.02	pci/g
Americium 241	0.30 +/- 0.06	pci/g	0.00 +/- 0.01	pci/g	0.01 +/- 0.03	pci/g
Cesium 137	NR		NR		NR	
Tritium	0.28 +/- 0.22	pci/ml	3.9 +/- 0.3	pci/ml	0.06 +/- 0.21	pci/ml

SOLAR POND CORE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	1000-000-204	1000-000-205	1000-000-206
Customer ID:	C228609860	C228609861	C228609862
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	23 +/- 13	pci/g	29 +/- 14	pci/g	27 +/- 14	pci/g
Gross Beta	40 +/- 7	pci/g	27 +/- 6	pci/g	25 +/- 6	pci/g
Uranium 233, 234	2.0 +/- 0.5	pci/g	0.96 +/- 0.32	pci/g	0.71 +/- 0.26	pci/g
Uranium 235	NR		NR		NR	
Uranium 238	1.7 +/- 0.5	pci/g	1.8 +/- 0.4	pci/g	1.2 +/- 0.3	pci/g
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	0.06 +/- 0.03	pci/g	0.00 +/- 0.02	pci/g	0.00 +/- 0.02	pci/g
Americium 241	0.01 +/- 0.02	pci/g	0.00 +/- 0.01	pci/g	0.00 +/- 0.02	pci/g
Cesium 137	NR		NR		NR	
Tritium	1.8 +/- 0.2	pci/ml	2.0 +/- 0.3	pci/ml	1.7 +/- 0.2	pci/ml

Sample Information

RFW Batch ID:	1000-000-207	1000-000-208	1000-000-209
Customer ID:	C258608860	C258608861	C258608862
Matrix:	Soil	Soil	Soil

Radio Chemistry

Gross Alpha	26 +/- 11	pci/g	46 +/- 16	pci/g	38 +/- 15	pci/g
Gross Beta	19 +/- 6	pci/g	25 +/- 6	pci/g	22 +/- 6	pci/g
Uranium 233, 234	0.69 +/- 0.14	pci/g	0.92 +/- 0.22	pci/g	0.81 +/- 0.17	pci/g
Uranium 235	NR		NR		NR	
Uranium 238	0.82 +/- 0.15	pci/g	1.3 +/- 0.3	pci/g	0.91 +/- 0.18	pci/g
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	0.42 +/- 0.05	pci/g	0.01 +/- 0.02	pci/g	0.02 +/- 0.02	pci/g
Americium 241	0.09 +/- 0.04	pci/g	0.00 +/- 0.01	pci/g	0.06 +/- 0.04	pci/g
Cesium 137	NR		NR		NR	
Tritium	3.3 +/- 0.3	pci/ml	1.1 +/- 0.2	pci/ml	0.06 +/- 0.22	pci/ml

SOLAR POND CORE SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	1000-000-210	1000-000-211	1000-000-212
Customer ID:	C278609860	C278609861	C278609862
Matrix:			

Radio Chemistry

Gross Alpha.....	68 +/- 15	pci/g	31 +/- 12	pci/g	23 +/- 11	pci/g
Gross Beta.....	46 +/- 7	pci/g	28 +/- 6	pci/g	20 +/- 6	pci/g
Uranium 233, 234.....	1.5 +/- 0.3	pci/g	1.1 +/- 0.2	pci/g	0.8 +/- 0.2	pci/g
Uranium 235.....	NR		NR		NR	
Uranium 238.....	1.3 +/- 0.2	pci/g	1.1 +/- 0.2	pci/g	1.2 +/- 0.2	pci/g
Strontium 89, 90.....	NR		NR		NR	
Plutonium 239, 240.....	-0.01 +/- 0.02	pci/g	-0.01 +/- 0.02	pci/g	-0.01 +/- 0.02	pci/g
Americium 241.....	0.01 +/- 0.02	pci/g	-0.03 +/- 0.06	pci/g	-0.05 +/- 0.06	pci/g
Cesium 137.....	NR		NR		NR	
Tritium.....	11 +/- 1	pci/ml	3.0 +/- 0.3	pci/ml	1.5 +/- 0.2	pci/ml

INORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
BH87-881-010	SP018700FS	
BH87-881-011	SP018704DH	
BH87-881-012	SP018705DH	
BH87-881-001	SP018711DH	
BH87-881-007	SP018713DH	
BH87-881-057	SP02870008	
BH87-881-003	SP028708UC	
BH87-881-004	SP028711CT	
BH87-881-005	SP028713BR	
BH87-881-002	SP038711DH	
BH87-881-008	SP038713CT	
BH87-881-009	SP038716BR	
BH87-881-020	SP0487004D	
BH87-881-018	SP048702DH	
BH87-881-019	SP048704DH	
BH87-881-021	SP048707DH	
BH87-881-026	SP048712DH	
BH87-881-027	SP048715FS	
BH87-881-028	SP048717DH	
BH87-881-029	SP048720DH	
BH87-881-030	SP048722DH	
BH87-881-031	SP048725DH	
BH87-881-032	SP048727DH	
BH87-881-033	SP048730DH	
BH87-881-044	SP048732DH	
BH87-881-054	SP058702DH	
BH87-881-055	SP058704DH	
BH87-881-056	SP058707DH	
BH87-881-058	SP058710DH	
BH87-881-059	SP058712DH	
BH87-881-060	SP058716DH	
BH87-881-035	SP068702FS	
BH87-881-036	SP068708DH	
BH87-881-037	SP068711DH	
BH87-881-038	SP068713DH	
BH87-881-039	SP068716DH	
BH87-881-040	SP068718DH	
BH87-881-041	SP068721DH	
BH87-881-042	SP068724DH	
BH87-881-043	SP068726DH	
BH87-881-097	SP078700DH	
BH87-881-098	SP078702DH	
BH87-881-099	SP078708FS	
BH87-881-100	SP078711DH	
BH87-881-101	SP078713DH	
BH87-881-107	SP078716DH	
BH87-881-108	SP078718WT	
BH87-881-109	SP078721CT	
BH87-881-110	SP078723BR	
BH87-881-111	SP078726DH	
BH87-881-006	SP088703UC	

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
BH87-881-013	SP088706CT	
BH87-881-014	SP088709BR	
BH87-881-023	SP098706CT	
BH87-881-024	SP098708BR	
BH87-881-071	SP108700DH	
BH87-881-087	SP1087017D	
BH87-881-072	SP108702DH	
BH87-881-073	SP108704BR	
BH87-881-074	SP108705DH	
BH87-881-075	SP108707DH	
BH87-881-077	SP108711DH	
BH87-881-078	SP108713DH	
BH87-881-079	SP108715DH	
BH87-881-086	SP108717DH	
BH87-881-088	SP108719DH	
BH87-881-089	SP108721WT	
BH87-881-095	SP108723DH	
BH87-881-096	SP108724DH	
BH87-881-045	SP11870008	
BH87-881-034	SP118708DH	
BH87-881-046	SP118711DH	
BH87-881-047	SP118714DH	
BH87-881-048	SP118716DH	
BH87-881-049	SP118719DH	
BH87-881-050	SP118721DH	
BH87-881-051	SP118724DH	
BH87-881-052	SP118726DH	
BH87-881-061	SP118729DH	
BH87-881-080	SP12870009	
BH87-881-062	SP128700UC	
BH87-881-081	SP12870916	
BH87-881-069	SP128716DH	
BH87-881-070	SP128719DH	
BH87-881-082	SP128721DH	
BH87-881-083	SP128724DH	
BH87-881-084	SP128726DH	
BH87-881-085	SP128729DH	
BH87-881-090	SP128731DH	
BH87-881-091	SP128734DH	
BH87-881-092	SP128739DH	
BH87-881-093	SP128741DH	
BH87-881-063	SP138701CT	
BH87-881-064	SP138703BR	
BH87-881-065	SP138706DH	
BH87-881-067	SP138709DH	
BH87-881-068	SP138711DH	
BH87-881-066	SP13876DUP	
BH87-881-094	SP148702CT	
BH87-881-102	SP148704BR	
BH87-881-105	SP1587008D	
BH87-881-103	SP158702DH	

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
BH87-881-104	SP158708DH	
BH87-881-106	SP158710DH	
BH87-881-112	SP158712WT	
BH87-881-113	SP158714CT	
BH87-881-114	SP158717BR	
BH87-881-120	SP168702FS	
BH87-881-121	SP168708UC	
BH87-881-122	SP168710CT	
BH87-881-123	SP168711BR	

SOLAR POND BOREHOLE SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-010			BH87-881-011			BH87-881-012		
Customer ID:	SP018700FS			SP018704DH			SP018705DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.67		phunit	7.86		phunit	8.42		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	25		mg/kg	96		mg/kg	131		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.9	U	mg/kg	4.0	U	mg/kg	4.2	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	85.8		%	83.8		%	80.9		%

Sample Information

RFW Batch ID:	BH87-881-001			BH87-881-007			BH87-881-057		
Customer ID:	SP018711DH			SP018713DH			SP02870008		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.70		phunit	8.08		phunit	7.77		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	4.0		mg/kg	8.0		mg/kg	9.0		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.7	U	mg/kg	3.8	U	mg/kg	3.6	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	92.6		%	89.4		%	93.1		%

SOLAR POND BOREHOLE SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-003			BH87-881-004			BH87-881-005		
Customer ID:	SP028708UC			SP028711CT			SP028713BR		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.53		phunit	7.86		phunit	8.20		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	12		mg/kg	3.0		mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.9	U	mg/kg	3.8	U	mg/kg	3.7	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	86.3		%	88.9		%	92.4		%

Sample Information

RFW Batch ID:	BH87-881-002			BH87-881-008			BH87-881-009		
Customer ID:	SP038711DH			SP038713CT			SP038716BR		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	4.76		phunit	8.63		phunit	8.17		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	200		mg/kg	186		mg/kg	260		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.7	U	mg/kg	4.1	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	92.3		%	82.4		%	84.2		%

SOLAR POND BOREHOLE SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-020			BH87-881-018			BH87-881-019		
Customer ID:	SP0487004D			SP048702DH			SP048704DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.51		phunit	6.15		phunit	7.67		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	4.0		mg/kg				5.0		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.0	U	mg/kg	8.7		mg/kg	3.6	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	82.7		%	92.8		%	93.8		%

Sample Information

RFW Batch ID:	BH87-881-021			BH87-881-026			BH87-881-027		
Customer ID:	SP048707DH			SP048712DH			SP048715FS		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.41		phunit	6.50		phunit	7.09		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	5.0		mg/kg	361		mg/kg	142		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.8	U	mg/kg	4.0	U	mg/kg	4.1	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	87.5		%	81.7		%	82.4		%

SOLAR POND BOREHOLE SAMPLES
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	BH87-881-028			BH87-881-029			BH87-881-030		
Customer ID:	SP048717DH			SP048720DH			SP048722DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.45		phunit	7.33		phunit	7.36		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	14		mg/kg	101		mg/kg	79		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.1	U	mg/kg	4.0	U	mg/kg	4.2	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	82.9		%	84.2		%	81.1		%

Sample Information

RFW Batch ID:	BH87-881-031			BH87-881-032			BH87-881-033		
Customer ID:	SP048725DH			SP048727DH			SP048730DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.79		phunit	8.00		phunit	8.13		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	13		mg/kg	2.0	U	mg/kg	2.0		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.9	U	mg/kg	3.8	U	mg/kg	3.8	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	87.2		%	88.4		%	87.8		%

SOLAR POND BOREHOLE SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-044			BH87-881-054			BH87-881-055		
Customer ID:	SP048732DH			SP058702DH			SP058704DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.27		phunit	6.70		phunit	6.30		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	25		mg/kg	8.0		mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.3	U	mg/kg	5.3		mg/kg	4.1	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	79.3		%	89.0		%	83.0		%

Sample Information

RFW Batch ID:	BH87-881-056			BH87-881-058			BH87-881-059		
Customer ID:	SP058707DH			SP058710DH			SP058712DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.60		phunit	8.50		phunit	8.60		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	9.0		mg/kg	345		mg/kg	705		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.7	U	mg/kg	3.6	U	mg/kg	4.2	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	89.9		%	92.6		%	79.6		%

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Sample Information

RFW Batch ID:	BH87-881-060			BH87-881-035			BH87-881-036		
Customer ID:	SP058716DH			SP068702FS			SP068708DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.60		phunit	8.33		phunit	8.12		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	1480		mg/kg	307		mg/kg	22		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.2	U	mg/kg	4.1	U	mg/kg	3.7	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	81.1		%	81.3		%	92.5		%

Sample Information

RFW Batch ID:	BH87-881-037			BH87-881-038			BH87-881-039		
Customer ID:	SP068711DH			SP068713DH			SP068716DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.62		phunit	8.88		phunit	9.00		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	2.0	U	mg/kg	2.0	U	mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.0	U	mg/kg	3.6	U	mg/kg	3.7	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	83.7		%	94.0		%	91.7		%

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Sample Information

RFW Batch ID:	BH87-881-040			BH87-881-041			BH87-881-042		
Customer ID:	SP068718DH			SP068721DH			SP068724DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.68		phunit	8.70		phunit	8.02		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	2.0	U	mg/kg	2.0	U	mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.1	U	mg/kg	4.1	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	83.0		%	82.2		%	85.0		%

Sample Information

RFW Batch ID:	BH87-881-043			BH87-881-097			BH87-881-098		
Customer ID:	SP068726DH			SP078700DH			SP078702DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.34		phunit	8.32		phunit	8.34		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	4.0		mg/kg	2.0	U	mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.1	U	mg/kg	4.0	U	mg/kg	3.9	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	83.2		%	85.0		%	87.0		%

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Sample Information

RFW Batch ID:	BH87-881-099			BH87-881-100			BH87-881-101		
Customer ID:	SP078708FS			SP078711DH			SP078713DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.98		phunit	7.70		phunit	7.78		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	2.0		mg/kg	3.0		mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.1	U	mg/kg	3.7	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	81.7		%	91.7		%	84.5		%

Sample Information

RFW Batch ID:	BH87-881-107			BH87-881-108			BH87-881-109		
Customer ID:	SP078716DH			SP078718WT			SP078721CT		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.43		phunit	8.71		phunit	8.34		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	150		mg/kg	480		mg/kg	656		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.9	U	mg/kg	3.8	U	mg/kg	4.2	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	87.7		%	88.4		%	80.0		%

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Sample Information

RFW Batch ID:	BH87-881-110			BH87-881-111			BH87-881-006		
Customer ID:	SP078723BR			SP078726DH			SP088703UC		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.73		phunit	7.89		phunit	7.91		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	58		mg/kg	2.0		mg/kg	511		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.3	U	mg/kg	4.4	U	mg/kg	3.7	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	79.0		%	77.5		%	91.4		%

Sample Information

RFW Batch ID:	BH87-881-013			BH87-881-014			BH87-881-023		
Customer ID:	SP088706CT			SP088709BR			SP098706CT		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.32		phunit	7.75		phunit	6.72		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	396		mg/kg	638		mg/kg	87		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.7	U	mg/kg	3.8	U	mg/kg	4.1		mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	91.3		%	88.3		%	82.1		%

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Sample Information

RFW Batch ID:	BH87-881-024			BH87-881-071			BH87-881-087		
Customer ID:	SP098708BR			SP108700DH			SP1087017D		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	6.52		phunit	8.09		phunit	7.87		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	242		mg/kg	4.0		mg/kg	23		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	6.1		mg/kg	3.9	U	mg/kg	3.9	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	81.9		%	86.6		%	86.4		%

Sample Information

RFW Batch ID:	BH87-881-072			BH87-881-073			BH87-881-074		
Customer ID:	SP108702DH			SP108704BR			SP108705DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.67		phunit	8.47		phunit	8.56		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	15		mg/kg	10		mg/kg	11		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.3	U	mg/kg	4.2	U	mg/kg	4.2	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	79.4		%	80.1		%	80.6		%

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Sample Information

RFW Batch ID:	BH87-881-075			BH87-881-077			BH87-881-078		
Customer ID:	SP108707DH			SP108711DH			SP108713DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.35		phunit	8.20		phunit	7.92		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	10		mg/kg	12		mg/kg	14		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.0	U	mg/kg	4.0	U	mg/kg	3.8	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	83.9		%	85.0		%	88.5		%

Sample Information

RFW Batch ID:	BH87-881-079			BH87-881-086			BH87-881-088		
Customer ID:	SP108715DH			SP108717DH			SP108719DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.60		phunit	8.08		phunit	8.27		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	26		mg/kg	16		mg/kg	12		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.2	U	mg/kg	3.9	U	mg/kg	4.1	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	80.5		%	86.4		%	82.1		%

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Sample Information

RFW Batch ID:	BH87-881-089			BH87-881-095			BH87-881-096		
Customer ID:	SP108721WT			SP108723DH			SP108724DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.16		phunit	8.58		phunit	8.44		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	11		mg/kg	10		mg/kg	13		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.6	U	mg/kg	3.9	U	mg/kg	3.9	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	73.7		%	87.2		%	85.7		%

Sample Information

RFW Batch ID:	BH87-881-045			BH87-881-034			BH87-881-046		
Customer ID:	SP11870008			SP118708DH			SP118711DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	6.20		phunit	7.79		phunit	6.61		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	9.0		mg/kg	2.0	U	mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.9	U	mg/kg	4.1	U	mg/kg	4.2	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	86.0		%	82.6		%	80.7		%

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Sample Information

RFW Batch ID:	BH87-881-047			BH87-881-048			BH87-881-049		
Customer ID:	SP118714DH			SP118716DH			SP118719DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	6.97		phunit	7.47		phunit	7.31		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	2.0	U	mg/kg	3.0		mg/kg	10		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	19	I	mg/kg	4.2	U	mg/kg	3.9	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	80.8		%	79.7		%	86.6		%

Sample Information

RFW Batch ID:	BH87-881-050			BH87-881-051			BH87-881-052		
Customer ID:	SP118721DH			SP118724DH			SP118726DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.66		phunit	7.82		phunit	7.76		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	11		mg/kg	10		mg/kg	12		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.8	U	mg/kg	3.9	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	88.2		%	86.9		%	84.7		%

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Sample Information

RFW Batch ID:	BH87-881-061			BH87-881-080			BH87-881-062		
Customer ID:	SP118729DH			SP12870009			SP128700UC		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.60		phunit	8.17		phunit	7.83		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	2.0	U	mg/kg	3.0		mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.1	U	mg/kg	4.0	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	82.8		%	84.6		%	85.9		%

Sample Information

RFW Batch ID:	BH87-881-081			BH87-881-069			BH87-881-070		
Customer ID:	SP12870916			SP128716DH			SP128719DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.37		phunit	8.16		phunit	8.26		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	3.0		mg/kg	3.0		mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.0	U	mg/kg	4.1	U	mg/kg	4.2	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	84.2		%	82.7		%	80.5		%

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Sample Information

RFW Batch ID:	BH87-881-082			BH87-881-083			BH87-881-084		
Customer ID:	SP128721DH			SP128724DH			SP128726DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.32		phunit	8.28		phunit	8.36		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	4.0		mg/kg	8.0		mg/kg	35		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.1	U	mg/kg	3.8	U	mg/kg	4.1	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	82.5		%	88.2		%	83.4		%

Sample Information

RFW Batch ID:	BH87-881-085			BH87-881-090			BH87-881-091		
Customer ID:	SP128729DH			SP128731DH			SP128734DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.67		phunit	7.75		phunit	7.89		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	11		mg/kg	3.0		mg/kg	21		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.0	U	mg/kg	4.1	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	84.9		%	83.2		%	83.5		%

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Sample Information

RFW Batch ID:	BH87-881-092			BH87-881-093			BH87-881-063		
Customer ID:	SP128739DH			SP128741DH			SP138701CT		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.73		phunit	7.87		phunit	8.07		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	2.0	U	mg/kg	3.0		mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.8	U	mg/kg	3.9	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	87.8		%	86.7		%	85.4		%

Sample Information

RFW Batch ID:	BH87-881-064			BH87-881-065			BH87-881-067		
Customer ID:	SP138703BR			SP138706DH			SP138709DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.96		phunit	8.01		phunit	7.84		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	4.0		mg/kg	2.0	U	mg/kg	21		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.9	U	mg/kg	3.9	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	87.3		%	87.8		%	85.4		%

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Sample Information

RFW Batch ID:	BH87-881-068			BH87-881-066			BH87-881-094		
Customer ID:	SP138711DH			SP13876DUP			SP148702CT		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.34		phunit	7.92		phunit	7.83		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	2.0	U	mg/kg	2.0	U	mg/kg	251		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	3.9	U	mg/kg	3.8	U	mg/kg	4.0	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	87.1		%	88.1		%	83.9		%

Sample Information

RFW Batch ID:	BH87-881-102			BH87-881-105			BH87-881-103		
Customer ID:	SP148704BR			SP1587008D			SP158702DH		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	7.77		phunit	8.09		phunit	7.93		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	220		mg/kg	3.0		mg/kg	20		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.1	U	mg/kg	4.2	U	mg/kg	3.6	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	83.3		%	80.5		%	93.8		%

SOLAR POND BOREHOLE SAMPLES
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	BH87-881-104			BH87-881-106			BH87-881-112		
Customer ID:	SP158708DH			SP158710DH			SP158712WT		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.24		phunit	8.09		phunit	8.04		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	2.0		mg/kg	2.0	U	mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.1	U	mg/kg	4.0	U	mg/kg	4.2	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	82.2		%	85.1		%	80.2		%

Sample Information

RFW Batch ID:	BH87-881-113			BH87-881-114			BH87-881-120		
Customer ID:	SP158714CT			SP158717BR			SP168702FS		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.33		phunit	8.45		phunit	9.3		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	4.0		mg/kg	2.0	U	mg/kg	11		mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	4.0	U	mg/kg	4.1	U	mg/kg	0.16	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	84.5		%	83.2		%	77.6		%

SOLAR POND BOREHOLE SAMPLES
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	BH87-881-121			BH87-881-122			BH87-881-123		
Customer ID:	SP168708UC			SP168710CT			SP168711BR		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH	8.3		phunit	8.4		phunit	8.5		phunit
Fluoride									
Nitrate-Nitrite-Nitrogen	12		mg/kg	3.0		mg/kg	2.0	U	mg/kg
Sulfide	200	U	mg/kg	200	U	mg/kg	200	U	mg/kg
Cyanide, Total	0.14	U	mg/kg	0.14	U	mg/kg	0.14	U	mg/kg
Hexavalent Chromium (Cr+6)									
Total Dissolved Solids									
Total Suspended Solids									
% Solids	85.1		%	85.7		%	86.4		%

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-052-025	C188608860	
8608-052-029	C188608861	
8608-056-035	C188608862	
8609-022-020	C208609860	
8609-022-023	C208609861	
8609-022-026	C208609862	
8609-022-029	C228609860	
8609-022-032	C228609861	
8609-022-035	C228609862	
8609-022-008	C258608860	
8609-022-002	C258608861	
8609-022-005	C258608862	
8609-022-011	C278609860	
8609-022-014	C278609861	
8609-022-017	C278609862	

YSOLAR POND CORE SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-052-025			8608-052-029			8608-056-035		
Customer ID:	C188608860			C188608861			C188608862		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3				NR					
HCO3- as CaCO3				NR					
Chloride	20		mg/kg	12		mg/kg			
Sulfate	400		mg/kg	250		mg/kg			
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	22.9		mg/kg	49.8		mg/kg	42.5		mg/kg
Sulfide									
Cyanide, Total	2.5	U	mg/kg	2.5	U	mg/kg	2.5	U	mg/kg
Hexavalent Chromium (Cr+6)	NA			NA			NA		
Total Dissolved Solids				NA					
Total Suspended Solids				NA					
% Solids	86		%	83		%	87		%

Sample Information

RFW Batch ID:	8609-022-020			8609-022-023			8609-022-026		
Customer ID:	C208609860			C208609861			C208609862		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	20.0	U	mg/kg	20.0	U	mg/kg	20.0	U	mg/kg
Sulfide									
Cyanide, Total	0.5	U	mg/kg	0.5	U	mg/kg	0.5	U	mg/kg
Hexavalent Chromium (Cr+6)				NA			NA		
Total Dissolved Solids									
Total Suspended Solids									
% Solids	90		%	85		%	83		%

YSOLAR POND CORE SAMPLES
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	8609-022-029				8609-022-032				8609-022-035		
Customer ID:	C228609860				C228609861				C228609862		
Matrix:	Soil				Soil				Soil		
Inorganics											
CO3= as CaCO3											
HCO3- as CaCO3											
Chloride											
Sulfate											
pH											
Fluoride											
Nitrate-Nitrite-Nitrogen	20.0	U	mg/kg		20.0	U	mg/kg		20.0	U	mg/kg
Sulfide											
Cyanide, Total	0.5	U	mg/kg		0.5	U	mg/kg		0.5	U	mg/kg
Hexavalent Chromium (Cr+6)	NA				NA				NA		
Total Dissolved Solids											
Total Suspended Solids											
% Solids	85		%		84		%		81		%

Sample Information

RFW Batch ID:	8609-022-008				8609-022-002				8609-022-005		
Customer ID:	C258608860				C258608861				C258608862		
Matrix:	Soil				Soil				Soil		
Inorganics											
CO3= as CaCO3											
HCO3- as CaCO3											
Chloride											
Sulfate											
pH											
Fluoride											
Nitrate-Nitrite-Nitrogen					20.0	U	mg/kg		23.0		mg/kg
Sulfide											
Cyanide, Total	0.5	U	mg/kg		0.5	U	mg/kg		0.5	U	mg/kg
Hexavalent Chromium (Cr+6)					NA				NA		
Total Dissolved Solids											
Total Suspended Solids											
% Solids	89		%		83		%		85		%

YSOLAR POND CORE SAMPLES
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	8609-022-011			8609-022-014			8609-022-017		
Customer ID:	C278609860			C278609861			C278609862		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride									
Sulfate									
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	291		mg/kg	94		mg/kg	113		mg/kg
Sulfide									
Cyanide, Total	0.5	U	mg/kg	0.5	U	mg/kg	0.5	U	mg/kg
Hexavalent Chromium (Cr+6)	NA			NA			NA		
Total Dissolved Solids									
Total Suspended Solids									
% Solids	93		%	79		%	84		%

METALS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
BH87-881-010	SP018700FS	
BH87-881-011	SP018704DH	
BH87-881-012	SP018705DH	
BH87-881-001	SP018711DH	
BH87-881-007	SP018713DH	
BH87-881-015	SP018716BR	
BH87-881-016	SP018721DH	
BH87-881-017	SP018723DH	
BH87-881-057	SP02870008	
BH87-881-003	SP028708UC	
BH87-881-004	SP028711CT	
BH87-881-005	SP028713BR	
BH87-881-002	SP038711DH	
BH87-881-008	SP038713CT	
BH87-881-009	SP038716BR	
BH87-881-020	SP0487004D	
BH87-881-018	SP048702DH	
BH87-881-019	SP048704DH	
BH87-881-021	SP048707DH	
BH87-881-026	SP048712DH	
BH87-881-027	SP048715FS	
BH87-881-028	SP048717DH	
BH87-881-029	SP048720DH	
BH87-881-030	SP048722DH	
BH87-881-031	SP048725DH	
BH87-881-032	SP048727DH	
BH87-881-033	SP048730DH	
BH87-881-044	SP048732DH	
BH87-881-054	SP058702DH	
BH87-881-055	SP058704DH	
BH87-881-056	SP058707DH	
BH87-881-058	SP058710DH	
BH87-881-059	SP058712DH	
BH87-881-060	SP058716DH	
BH87-881-035	SP068702FS	
BH87-881-036	SP068708DH	
BH87-881-037	SP068711DH	
BH87-881-038	SP068713DH	
BH87-881-039	SP068716DH	
BH87-881-040	SP068718DH	
BH87-881-041	SP068721DH	
BH87-881-042	SP068724DH	
BH87-881-043	SP068726DH	
BH87-881-097	SP078700DH	
BH87-881-098	SP078702DH	
BH87-881-099	SP078708FS	
BH87-881-100	SP078711DH	
BH87-881-101	SP078713DH	
BH87-881-107	SP078716DH	
BH87-881-108	SP078718WT	
BH87-881-109	SP078721CT	

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
BH87-881-110	SP078723BR	
BH87-881-111	SP078726DH	
BH87-881-006	SP088703UC	
BH87-881-013	SP088706CT	
BH87-881-014	SP088709BR	
BH87-881-023	SP098706CT	
BH87-881-024	SP098708BR	
BH87-881-071	SP108700DH	
BH87-881-087	SP1087017D	
BH87-881-072	SP108702DH	
BH87-881-073	SP108704BR	
BH87-881-074	SP108705DH	
BH87-881-075	SP108707DH	
BH87-881-077	SP108711DH	
BH87-881-078	SP108713DH	
BH87-881-079	SP108715DH	
BH87-881-086	SP108717DH	
BH87-881-088	SP108719DH	
BH87-881-089	SP108721WT	
BH87-881-095	SP108723DH	
BH87-881-096	SP108724DH	
BH87-881-045	SP11870008	
BH87-881-034	SP118708DH	
BH87-881-046	SP118711DH	
BH87-881-047	SP118714DH	
BH87-881-048	SP118716DH	
BH87-881-049	SP118719DH	
BH87-881-050	SP118721DH	
BH87-881-051	SP118724DH	
BH87-881-052	SP118726DH	
BH87-881-061	SP118729DH	
BH87-881-080	SP12870009	
BH87-881-081	SP12870916	
BH87-881-069	SP128716DH	
BH87-881-070	SP128719DH	
BH87-881-082	SP128721DH	
BH87-881-083	SP128724DH	
BH87-881-084	SP128726DH	
BH87-881-085	SP128729DH	
BH87-881-090	SP128731DH	
BH87-881-091	SP128734DH	
BH87-881-092	SP128739DH	
BH87-881-093	SP128741DH	
BH87-881-062	SP138700UC	
BH87-881-063	SP138701CT	
BH87-881-064	SP138703BR	
BH87-881-065	SP138706DH	
BH87-881-067	SP138709DH	
BH87-881-068	SP138711DH	
BH87-881-066	SP13876DUP	
BH87-881-094	SP148702CT	

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
BH87-881-102	SP148704BR	
BH87-881-105	SP1587008D	
BH87-881-106	SP1587010DH	
BH87-881-103	SP158702DH	
BH87-881-104	SP158708DH	
BH87-881-112	SP158712WT	
BH87-881-113	SP158714CT	
BH87-881-114	SP158717BR	
BH87-881-120	SP168702FS	
BH87-881-121	SP168708UC	
BH87-881-122	SP168710CT	
BH87-881-123	SP168711BR	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-010	BH87-881-011	BH87-881-012	BH87-881-001
Customer ID:	SP018700FS	SP018704DH	SP018705DH	SP018711DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver	(Ag),	total.....	5.2183	U	5.1917	U	5.1106	U	4.3613	U
Aluminum	(Al),	total.....	13441.9961		14499.5586		30899.3340		9166.1162	
Arsenic	(As),	total.....	2.3		3.4		6.5		7.4	
Barium	(Ba),	total.....	107.6959		89.9049		113.9977		53.4015	
Beryllium	(Be),	total.....	2.6092	U	2.5959	U	2.6139		2.1807	U
Calcium	(Ca),	total.....	8663.5840		14408.6016		5114.8237		1436.6106	
Cadmium	(Cd),	total.....	3.7415		2.3604		1.9635		1.7961	
Cobalt	(Co),	total.....	15.7480		15.0287	U	14.7939		12.6249	U
Chromium	(Cr),	total.....	20.6220		16.2380		27.8578		17.8371	
Cesium	(Cs),	total.....								
Copper	(Cu),	total.....	13.5360		10.8796		8.6855		12.4920	
Iron	(Fe),	total.....	15797.1162		14220.4219		23225.9844		16421.0625	
Mercury	(Hg),	total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium	(K),	total.....	2500		2300		3600		1000	U
Lithium	(Li),	total.....	100	U	100	U	100	U	100	U
Magnesium	(Mg),	total.....	2731.2029		2800.9717		2799.4729		1628.1650	
Manganese	(Mn),	total.....	178.5722		197.1495		133.5211		293.9701	
Molybdenum	(Mo),	total.....	15.1056	U	15.0287	U	14.7939	U	12.6249	U
Sodium	(Na),	total.....	1441.9014	U	1434.5581	U	1412.1476	U	1249.4033	
Nickel	(Ni),	total.....	25.4049	U	25.2755	U	30.0541		24.1012	
Lead	(Pb),	total.....	27		21		21		8.2	
Antimony	(Sb),	total.....	2.6804		4.3738		4.2108		2.6602	
Selenium	(Se),	total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium	(Sr),	total.....	32.2200		53.3212		32.6462		12.2673	
Thallium	(Tl),	total.....	5.6303	U	5.6016	U	5.5141	U	4.7056	U
Vanadium	(V),	total.....	42.4262		52.5696		71.7669		33.8276	
Zinc	(Zn),	total.....	61.4135		53.9971		47.4883		18.6090	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-007		BH87-881-015		BH87-881-016		BH87-881-017	
Customer ID:	SP018713DH		SP018716BR		SP018721DH		SP018723DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.8474	U	5.5844	U	5.5458	U	5.2244	U
Aluminum (Al), total.....	8300.6621		5259.7290		7970.6274		6848.4517	
Arsenic (As), total.....	3.5		6.8		6.8		2.1	
Barium (Ba), total.....	94.8918		32.9046		76.5327		115.0266	
Beryllium (Be), total.....	2.4237	U	2.7922	U	2.7729	U	2.6122	U
Calcium (Ca), total.....	2325.2192		1877.0740		3080.0342		3331.5127	
Cadmium (Cd), total.....	2.2852		2.6807		2.0249		1.9110	
Cobalt (Co), total.....	14.0319	U	16.1653	U	16.0537	U	15.1234	U
Chromium (Cr), total.....	6.3781	U	7.3479		11.0976		31.3304	
Cesium (Cs), total.....								
Copper (Cu), total.....	6.9983		5.7342		12.1026		30.2858	
Iron (Fe), total.....	9999.4541		8543.2432		14744.7764		13805.7813	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1000	U	1000	U	1000	U	1000	U
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	1584.5968		1048.7197		1499.2919		1489.7839	
Manganese (Mn), total.....	407.8099		36.4304		156.7015		313.5940	
Molybdenum(Mo), total.....	14.0319	U	16.1653	U	16.0537	U	15.1234	U
Sodium (Na), total.....	1339.4077		1543.0540	U	1532.3992	U	1443.5957	U
Nickel (Ni), total.....	35.1599		27.1871	U	26.9994	U	39.4955	
Lead (Pb), total.....	18		18		18		15	
Antimony (Sb), total.....	2.4963		2.6676		2.4081	U	2.2685	U
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	21.0514		21.7427		31.2728		34.2671	
Thallium (Tl), total.....	5.2301	U	6.0253	U	5.9837	U	5.6369	U
Vanadium (V), total.....	36.0218		40.2989		42.4520		30.9080	
Zinc (Zn), total.....	23.6002		29.0552		54.7891		51.1263	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-057	BH87-881-003	BH87-881-004	BH87-881-005
Customer ID:	SP02870008	SP028708UC	SP028711CT	SP028713BR
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver	(Ag),	total.....	5.0167	U	5.2570	U	5.0576	U	4.7832	U
Aluminum	(Al),	total.....	7026.1836		7778.0073		5957.9600		5561.4131	
Arsenic	(As),	total.....	2.9		2.6		4.9		2.0	
Barium	(Ba),	total.....	76.3285		122.4280		53.9807		30.8691	
Beryllium	(Be),	total.....	2.5083	U	2.6285	U	2.5288	U	2.3916	U
Calcium	(Ca),	total.....	18390.1172		126076.031		50604.6523		26297.0117	
Cadmium	(Cd),	total.....	2.3847		5.0679		3.5114		2.6465	
Cobalt	(Co),	total.....	14.5219	U	15.2176	U	14.6405	U	13.8462	U
Chromium	(Cr),	total.....	9.7629		7.5129		11.3111		7.9577	
Cesium	(Cs),	total.....								
Copper	(Cu),	total.....	9.3165		4.9917		4.1925	U	3.9650	U
Iron	(Fe),	total.....	15042.7539		5793.0479		5087.1621		4130.3452	
Mercury	(Hg),	total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium	(K),	total.....	1600		1000	U	1000	U	1000	U
Lithium	(Li),	total.....	100	U	100	U	100	U	100	U
Magnesium	(Mg),	total.....	2071.4199		3514.0674		1910.2239		1228.3871	
Manganese	(Mn),	total.....	218.2263		53.5351		17.9664		23.2698	
Molybdenum	(Mo),	total.....	14.5219	U	15.2176	U	14.6405	U	13.8462	U
Sodium	(Na),	total.....	1386.1814	U	1452.5939	U	1397.5045	U	1321.6785	U
Nickel	(Ni),	total.....	24.4232	U	25.5933	U	24.6227	U	23.2867	U
Lead	(Pb),	total.....	9.8		3.0		11		1.3	
Antimony	(Sb),	total.....	2.1783	U	8.0315		5.8252		2.5204	
Selenium	(Se),	total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium	(Sr),	total.....	36.7010		214.3830		92.2461		33.4658	
Thallium	(Tl),	total.....	5.4127	U	5.6720	U	5.4569	U	5.1608	U
Vanadium	(V),	total.....	17.4130		16.6011	U	15.9715	U	15.1049	U
Zinc	(Zn),	total.....	34.2756		15.8171		16.2170		15.0644	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-002		BH87-881-008		BH87-881-009		BH87-881-020	
Customer ID:	SP038711DH		SP038713CT		SP038716BR		SP0487004D	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total	4.3475	U	4.8941	U	4.8132	U	5.7800	U
Aluminum (Al), total	9691.4199		7294.0444		10704.5430		20344.5820	
Arsenic (As), total	2.3		3.9		11		5.6	
Barium (Ba), total	35.7110		41.7541		53.3540		200.1452	
Beryllium (Be), total	2.1737	U	2.4470	U	2.4066	U	2.8900	U
Calcium (Ca), total	1755.3124		2523.1731		10347.8857		81473.1641	
Cadmium (Cd), total	1.3934		1.6827		2.2847		119.1365	
Cobalt (Co), total	12.5847	U	14.1671	U	13.9329	U	16.7316	U
Chromium (Cr), total	12.1931		12.9833		9.4955		21.8044	
Cesium (Cs), total								
Copper (Cu), total	6.5065		9.6104		6.2317		9.0218	
Iron (Fe), total	10606.2217		7481.9868		8654.5996		13051.6309	
Mercury (Hg), total	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total	1000		1200		1000		5200	
Lithium (Li), total	100	U	100	U	100	U	100	U
Magnesium (Mg), total	1653.1522		1640.9746		2346.6438		3608.5159	
Manganese (Mn), total	144.3217		81.8820		25.3447		224.0333	
Molybdenum(Mo), total	12.5847	U	14.1671	U	13.9329		16.7316	U
Sodium (Na), total	1201.2712	U	1352.3152	U	1451.3228		1597.1088	U
Nickel (Ni), total	21.1653	U	23.8265	U	23.4327		58.5558	
Lead (Pb), total	6.0		19		18		5.9	
Antimony (Sb), total	2.1517		2.9548		3.3760		12.6159	
Selenium (Se), total	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total	13.9076		25.6271		44.2483		124.0441	
Thallium (Tl), total	4.6907	U	5.2805	U	5.1932	U	6.2363	U
Vanadium (V), total	28.6254		27.8720		29.5606		31.1709	
Zinc (Zn), total	25.3936		33.4917		46.6971		33.2655	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	BH87-881-018		BH87-881-019		BH87-881-021		BH87-881-026	
Customer ID:	SP048702DH		SP048704DH		SP048707DH		SP048712DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.6164	U	4.6495	U	4.9032	U	5.0081	U
Aluminum (Al), total.....	762.9734		18763.8203		9575.5762		7685.3047	
Arsenic (As), total.....	9.9		4.3		2.0	U	15	
Barium (Ba), total.....	10.3398		174.0399		169.9247		66.3075	
Beryllium (Be), total.....	2.3082	U	2.3248	U	2.4516	U	2.4542	U
Calcium (Ca), total.....	455.5681	U	119857.758		161428.266		11990.9922	
Cadmium (Cd), total.....	54.1000		70.8517		7.4073		3.5616	
Cobalt (Co), total.....	13.3633	U	13.4591	U	14.1935	U	14.4971	
Chromium (Cr), total.....	6.0742	U	16.9933		11.6169		6.5896	U
Cesium (Cs), total.....								
Copper (Cu), total.....	3.8268	U	8.9928		6.3805		21.5080	
Iron (Fe), total.....	4602.3433		12418.9170		6051.4478		23701.8477	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1700		3500		1600		1600	
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	173.9185		3915.6394		3951.2632		2297.5125	
Manganese (Mn), total.....	98.6683		219.4141		48.1392		117.9376	
Molybdenum(Mo), total.....	13.3633	U	13.4591	U	14.1935	U	14.4971	U
Sodium (Na), total.....	1275.5906	U	1284.7343	U	1354.8387	U	1383.8176	U
Nickel (Ni), total.....	22.4747	U	38.3826		23.8710	U	24.3815	U
Lead (Pb), total.....	13		5.7		2.9		26	
Antimony (Sb), total.....	3.3842		6.0618		4.9473		5.2774	
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	12.1485	U	168.0517		237.8597		73.4246	
Thallium (Tl), total.....	4.9809	U	5.0166	U	5.2903		5.2959	U
Vanadium (V), total.....	14.5782	U	32.9863		15.4839	U	49.7002	
Zinc (Zn), total.....	12.1485	U	30.6914		19.0224		79.6810	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-027	BH87-881-028	BH87-881-029	BH87-881-030
Customer ID:	SP048715FS	SP048717DH	SP048720DH	SP048722DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver (Ag), total.....	4.8505 U	5.0483 U	4.9453 U	4.9877 U
Aluminum (Al), total.....	2618.9338	10907.7588	6791.5171	4093.2983
Arsenic (As), total.....	4.4	18	2.0 U	2.0 U
Barium (Ba), total.....	76.6415	74.1320	26.5734	18.1685
Beryllium (Be), total.....	3.7531	2.4935 U	2.4643 U	2.5895 U
Calcium (Ca), total.....	1021.0970	3577.7776	3096.6387	1748.4672
Cadmium (Cd), total.....	2.4933	2.9979	2.6828	2.7825
Cobalt (Co), total.....	14.0408 U	14.6135 U	14.3154 U	14.4382 U
Chromium (Cr), total.....	6.3822 U	9.5492	6.5070 U	6.5628 U
Cesium (Cs), total.....				
Copper (Cu), total.....	5.2929	17.2677	8.0958	4.3207
Iron (Fe), total.....	3157.6379	12029.0313	5504.9419	2804.1143
Mercury (Hg), total.....	0.2 U	0.2 U	0.2 U	0.2 U
Potassium (K), total.....	1400	1100	1000 U	1000 U
Lithium (Li), total.....	100 U	100 U	100 U	100 U
Magnesium (Mg), total.....	884.5650	2598.0771	1879.9250	1136.5343
Manganese (Mn), total.....	35.6721	76.3781	36.4233	53.0288
Molybdenum(Mo), total.....	14.0408 U	14.6135 U	14.3154 U	14.4382 U
Sodium (Na), total.....	1340.2606 U	1394.9276 U	1366.4700 U	1378.1881 U
Nickel (Ni), total.....	23.6141 U	24.5773 U	24.0759 U	24.2824 U
Lead (Pb), total.....	28	37	19	20
Antimony (Sb), total.....	5.2034	4.8248	4.1605	3.7579
Selenium (Se), total.....	1.0 U	1.0 U	1.0 U	1.0 U
Strontium (Sr), total.....	30.3144	86.2076	43.9629	28.9138
Thallium (Tl), total.....	5.2805 U	5.3807 U	5.3177 U	5.5878 U
Vanadium (V), total.....	20.1281	31.2786	24.5249	19.2139
Zinc (Zn), total.....	27.4453	73.5248	34.1478	17.7526

SOLAR POND BOREHOLE SAMPLES
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RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-031	BH87-881-032	BH87-881-033	BH87-881-044
Customer ID:	SP048725DH	SP048727DH	SP048730DH	SP048732DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver (Ag), total.....	4.7580 U	4.5761 U	4.6876 U	5.2708 U
Aluminum (Al), total.....	6840.2373	6533.6050	6388.0098	3856.3789
Arsenic (As), total.....	2.0	4.8	7.4	27
Barium (Ba), total.....	37.7834	919.3092	20.1551	27.6678
Beryllium (Be), total.....	2.3444 U	2.2588 U	3.3841	2.7220 U
Calcium (Ca), total.....	3640.3157	38269.7031	2583.1389	1034.2679
Cadmium (Cd), total.....	2.8991	3.9734	2.7885	2.1660
Cobalt (Co), total.....	13.7732 U	13.2467 U	13.5692 U	15.2576 U
Chromium (Cr), total.....	6.2605 U	6.0212 U	6.1678 U	6.9353 U
Cesium (Cs), total.....				
Copper (Cu), total.....	18.9024	5.5254	9.5721	4.6555
Iron (Fe), total.....	6807.7695	8446.3311	7190.6680	6124.8291
Mercury (Hg), total.....	0.2	0.2 U	0.2 U	0.2 U
Potassium (K), total.....	1000 U	1000 U	1000 U	1000
Lithium (Li), total.....	100 U	100 U	100 U	100 U
Magnesium (Mg), total.....	1888.5730	1456.5388	1817.3781	1052.2653
Manganese (Mn), total.....	58.1891	67.8069	22.9845	15.4476
Molybdenum(Mo), total.....	13.7732 U	13.2467 U	13.5692 U	15.2576 U
Sodium (Na), total.....	1314.7150 U	1264.4535 U	1295.2443 U	1456.4069 U
Nickel (Ni), total.....	23.1640 U	22.2785 U	30.2832	25.6605 U
Lead (Pb), total.....	21	19	16	20
Antimony (Sb), total.....	5.8707	2.3151	3.8140	5.2339
Selenium (Se), total.....	1.0 U	1.0 U	1.0 U	1.0 U
Strontium (Sr), total.....	46.4660	67.1238	34.2277	19.8432
Thallium (Tl), total.....	5.0590 U	4.8743 U	4.8891 U	5.8738 U
Vanadium (V), total.....	22.3496	31.1422	20.0769	26.5153
Zinc (Zn), total.....	34.9453	48.8023	49.8176	38.0185

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-054	BH87-881-055	BH87-881-056	BH87-881-058
Customer ID:	SP058702DH	SP058704DH	SP058707DH	SP058710DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver	(Ag), total.....	5.4355	U	5.1260	U	5.3562	U	5.4394	U
Aluminum	(Al), total.....	10141.6133		11241.9668		16122.5410	U	9276.1611	
Arsenic	(As), total.....	30		15		4.2		12	
Barium	(Ba), total.....	166.1240		45.3992		132.2499		201.6574	
Beryllium	(Be), total.....	2.7178	U	2.5630	U	2.6781	U	2.7197	U
Calcium	(Ca), total.....	726.4161		955.7430		90979.6250		48641.1992	
Cadmium	(Cd), total.....	16.4508		10.4682		83.6809		21.9674	
Cobalt	(Co), total.....	15.7344	U	14.8384	U	19.9379		29.4787	
Chromium	(Cr), total.....	14.0409		14.9609		14.1349		780.5003	
Cesium	(Cs), total.....								
Copper	(Cu), total.....	58.4803		32.6016		13.0121		22.7704	
Iron	(Fe), total.....	12535.9170		13182.9395		19068.6660		15349.3252	
Mercury	(Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium	(K), total.....	2600		2600		2900		3900	
Lithium	(Li), total.....	100	U	100	U	100	U	100	U
Magnesium	(Mg), total.....	1143.1780		1016.4666		3109.6411		1750.7233	
Manganese	(Mn), total.....	83.6274		81.3164		508.8988		802.1201	
Molybdenum	(Mo), total.....	15.7344	U	14.8384	U	15.5048	U	15.7455	U
Sodium	(Na), total.....	1501.9158	U	1416.3879	U	1480.0000	U	1660.6731	
Nickel	(Ni), total.....	26.4623	U	24.9554	U	26.0762	U	474.4652	
Lead	(Pb), total.....	20		17		5.3		7.9	
Antimony	(Sb), total.....	3.1673		2.2258	U	2.8288		2.3922	
Selenium	(Se), total.....	1.3		1.2		1.0	U	1.0	U
Strontium	(Sr), total.....	14.3040	U	13.4894	U	85.0676		39.1634	
Thallium	(Tl), total.....	5.8646	U	5.5307	U	5.7790	U	5.8688	U
Vanadium	(V), total.....	47.3648		43.8433		32.2998		25.1843	
Zinc	(Zn), total.....	32.5544		26.2507		24.7452		20.0000	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-059	BH87-881-060	BH87-881-035	BH87-881-036
Customer ID:	SP058712DH	SP058716DH	SP068702FS	SP068708DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG
Metals				
Silver (Ag), total.....	5.0110 U	5.6518 U	4.9734 U	4.1843 U
Aluminum (Al), total.....	10905.2676	6771.7856	17724.6367	12521.6816
Arsenic (As), total.....	2.5	2.8	35	16
Barium (Ba), total.....	110.3728	88.5829	151.8637	95.7360
Beryllium (Be), total.....	2.5055 U	2.8259 U	5.2238	2.0922 U
Calcium (Ca), total.....	20810.4473	7403.0737	109941.742	2618.8726
Cadmium (Cd), total.....	19.9581	7.3013	5.0790	2.1165
Cobalt (Co), total.....	17.4387	17.1233	14.3967 U	12.1126 U
Chromium (Cr), total.....	132.3294	11.1306	15.6898	12.5504
Cesium (Cs), total.....				
Copper (Cu), total.....	21.5672	15.3616	8.2002	10.6816
Iron (Fe), total.....	14482.1406	5413.5566	12789.8994	13333.8076
Mercury (Hg), total.....	0.25	0.2 U	0.2 U	0.2 U
Potassium (K), total.....	3800	3400	1800	3300
Lithium (Li), total.....	100 U	100 U	100 U	100 U
Magnesium (Mg), total.....	1798.0879	1826.3550	3827.7395	1966.9459
Manganese (Mn), total.....	233.2486	171.0319	95.8549	289.6226
Molybdenum(Mo), total.....	14.5055 U	16.3603 U	14.3967 U	12.1126 U
Sodium (Na), total.....	1665.3607	3578.0984	1374.2285 U	1156.1991 U
Nickel (Ni), total.....	24.3956 U	27.5151 U	24.2126 U	24.0721
Lead (Pb), total.....	5.1	18	9.0	17
Antimony (Sb), total.....	2.8292	3.7912	9.0397	3.4603
Selenium (Se), total.....	1.0 U	1.0 U	1.0 U	1.0 U
Strontium (Sr), total.....	29.8433	47.6490	179.0194	21.7454
Thallium (Tl), total.....	5.4066 U	6.0979 U	5.3660 U	4.5147 U
Vanadium (V), total.....	15.8242 U	22.0397	44.0265	37.6274
Zinc (Zn), total.....	18.0426	37.0399	21.8525	33.2483

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	BH87-881-037		BH87-881-038		BH87-881-039		BH87-881-040	
Customer ID:	SP068711DH		SP068713DH		SP068716DH		SP068718DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total	4.7316	U	4.1079	U	4.2291	U	4.5866	U
Aluminum (Al), total	8472.9521		5722.7881		6086.6602		11478.9277	
Arsenic (As), total	8.8		11		8.6		3.7	
Barium (Ba), total	152.5921		58.4571		26.9739		68.9190	
Beryllium (Be), total	2.3658	U	2.0539	U	2.1146	U	2.2933	U
Calcium (Ca), total	143650.531		8907.6943		12081.1406		48271.4219	
Cadmium (Cd), total	4.4463		2.1460		2.2883		3.6249	
Cobalt (Co), total	13.6968	U	11.8913	U	12.2422	U	13.2770	U
Chromium (Cr), total	11.3359		8.5724		8.9717		13.9723	
Cesium (Cs), total								
Copper (Cu), total	5.4880		5.7873		7.1134		24.4353	
Iron (Fe), total	6950.5830		8704.5352		10675.3496		14390.0078	
Mercury (Hg), total	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total	1100		870	J	1200		1300	
Lithium (Li), total	100	U	100	U	100	U	100	U
Magnesium (Mg), total	3628.0833		1835.5624		1945.7057		5217.1704	
Manganese (Mn), total	82.0246		122.8515		84.9463		26.0670	
Molybdenum(Mo), total	13.6968	U	11.8913	U	12.2422	U	13.2770	U
Sodium (Na), total	1307.4187	U	1135.0773	U	1168.5726	U	1267.3507	U
Nickel (Ni), total	23.0355	U	19.9990	U	20.5891	U	22.3295	U
Lead (Pb), total	6.6		4.4		4.9		25	
Antimony (Sb), total	4.8727		3.6972		5.0378		8.0190	
Selenium (Se), total	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total	250.7720		44.4529		50.4669		162.1024	
Thallium (Tl), total	5.1052	U	4.4322	U	4.5630	U	4.9487	U
Vanadium (V), total	31.2442		32.9991		27.9633		43.3660	
Zinc (Zn), total	15.0326		10.8103	U	11.1293	U	61.0207	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-041		BH87-881-042		BH87-881-043		BH87-881-097	
Customer ID:	SP068721DH		SP068724DH		SP068726DH		SP078700DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	5.1244	U	4.7906	U	4.6412	U	4.7753	U
Aluminum (Al), total.....	13629.5547		11921.4551		14798.7637		24579.4609	
Arsenic (As), total.....	17		29		19		8.5	
Barium (Ba), total.....	74.2006		61.9227		89.0269		125.3209	
Beryllium (Be), total.....	2.5622	U	2.3953	U	3.0280		2.3876	U
Calcium (Ca), total.....	8135.2412		2724.8923		3318.8394		48884.2734	
Cadmium (Cd), total.....	3.1385		2.9506		2.6979		8.0138	
Cobalt (Co), total.....	14.8336	U	16.4529		13.4351	U	13.8232	U
Chromium (Cr), total.....	17.3966		39.7522		21.9288		21.8659	
Cesium (Cs), total.....								
Copper (Cu), total.....	17.6548		30.4298		23.4726		43.5301	
Iron (Fe), total.....	11126.2910		17706.2910		9508.2402		17301.5801	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.23	
Potassium (K), total.....	2200		1500		2000		4300	
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	4063.2717		3524.2986		4386.1831		3397.2693	
Manganese (Mn), total.....	113.3128		86.7988		29.2954		269.5365	
Molybdenum(Mo), total.....	14.8336	U	13.8675	U	13.4351	U	13.8232	U
Sodium (Na), total.....	1415.9391	U	1323.7179	U	1282.4427	U	1319.4888	U
Nickel (Ni), total.....	24.9475	U	28.4144		22.5954	U	28.9253	
Lead (Pb), total.....	24		4.7		27		11	
Antimony (Sb), total.....	8.2519		6.7015		7.2283		4.1582	
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	112.9193		100.6016		122.5637		81.2858	
Thallium (Tl), total.....	5.5289	U	5.1688	U	5.0076	U	5.1523	U
Vanadium (V), total.....	42.9086		30.4026		36.0007		50.0953	
Zinc (Zn), total.....	72.7185		114.4193		74.3914		50.6823	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-098	BH87-881-099	BH87-881-100	BH87-881-101
Customer ID:	SP078702DH	SP078708FS	SP078711DH	SP078713DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver	(Ag),	total.....	4.4798	U	5.0474	U	4.4466	U	5.1162	U
Aluminum	(Al),	total.....	16435.3496		30264.9863		9232.1279		22723.6973	
Arsenic	(As),	total.....	6.2		12		8.4		9.6	
Barium	(Ba),	total.....	62.7661		162.5820		80.4814		147.8362	
Beryllium	(Be),	total.....	2.2399	U	2.5237	U	2.2233	U	2.5581	U
Calcium	(Ca),	total.....	10644.3926		44678.8242		2297.4766		3155.2739	
Cadmium	(Cd),	total.....	3.3661		2.8549		2.6252		3.3610	
Cobalt	(Co),	total.....	12.9677	U	14.6108	U	12.8717	U	14.8101	U
Chromium	(Cr),	total.....	21.3246		25.0922		10.2626		22.0065	
Cesium	(Cs),	total.....								
Copper	(Cu),	total.....	9.9756		26.1541		12.3615		21.0427	
Iron	(Fe),	total.....	12694.1318		21846.4824		10476.1270		23822.5938	
Mercury	(Hg),	total.....	0.18	J	0.2	U	0.2	U	0.2	
Potassium	(K),	total.....	2500		2500		2400		1700	
Lithium	(Li),	total.....	100	U	100	U	100	U	100	U
Magnesium	(Mg),	total.....	1643.5381		3587.4817		1266.7900		2214.3098	
Manganese	(Mn),	total.....	108.3153		163.4268		290.6646		224.2056	
Molybdenum	(Mo),	total.....	12.9677	U	14.6108	U	12.8717	U	14.8101	U
Sodium	(Na),	total.....	1237.8268	U	1394.6653	U	1228.6635	U	1413.6938	U
Nickel	(Ni),	total.....	21.8093	U	58.2364		21.6479	U	49.4069	
Lead	(Pb),	total.....	20		15		21		9.7	
Antimony	(Sb),	total.....	4.3221		4.0888		1.9308	U	3.7223	
Selenium	(Se),	total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium	(Sr),	total.....	29.0397		80.5560		19.5846		27.6547	
Thallium	(Tl),	total.....	4.8334	U	5.4458		4.7976	U	5.5201	U
Vanadium	(V),	total.....	47.4802		41.0604		26.0389		48.6043	
Zinc	(Zn),	total.....	25.9905		52.3144		37.2169		31.8398	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-107		BH87-881-108		BH87-881-109		BH87-881-110	
Customer ID:	SP078716DH		SP078718WT		SP078721CT		SP078723BR	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.8187	U	4.4869	U	5.0105	U	5.3208	U
Aluminum (Al), total.....	9112.9990		4637.2710		12139.8340		10902.4258	
Arsenic (As), total.....	4.3		7.0		29		64	
Barium (Ba), total.....	75.9463		18.9557		82.8200		86.0572	
Beryllium (Be), total.....	2.4093	U	2.2435	U	2.5053	U	2.6604	U
Calcium (Ca), total.....	56105.0820		988.3888		5208.3071		4183.0991	
Cadmium (Cd), total.....	3.8855		2.1379		2.5787		2.8051	
Cobalt (Co), total.....	13.9488	U	12.9885	U	14.5042	U	15.4024	U
Chromium (Cr), total.....	586.0095		393.5178		91.9192		14.8731	
Cesium (Cs), total.....								
Copper (Cu), total.....	23.2102		19.7785		29.1755		20.5881	
Iron (Fe), total.....	13444.2412		13995.6748		13348.9912		8349.3672	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1100		1200		2100		1500	
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	2518.3230		903.1175		3030.3042		3105.1472	
Manganese (Mn), total.....	212.0189		123.4241		132.7174		60.2720	
Molybdenum(Mo), total.....	13.9488	U	12.9885	U	14.5042	U	15.4024	U
Sodium (Na), total.....	1331.4794	U	1239.8119	U	1611.2615		1470.2316	U
Nickel (Ni), total.....	514.0565		312.9998		94.4750		27.4078	
Lead (Pb), total.....	4.7		4.8		24		30	
Antimony (Sb), total.....	3.8826		2.1765		3.9220		6.1017	
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	85.3752		11.8077	U	89.2024		93.4381	
Thallium (Tl), total.....	5.1991	U	4.8412	U	5.4061	U	5.7409	
Vanadium (V), total.....	18.8700		36.0647		28.0557		16.8026	U
Zinc (Zn), total.....	21.0363		14.1172		64.3106		59.5645	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-111		BH87-881-006		BH87-881-013		BH87-881-014	
Customer ID:	SP078726DH		SP088703UC		SP088706CT		SP088709BR	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.9638	U	4.7527	U	4.9119	U	5.2462	U
Aluminum (Al), total.....	14758.6426		3968.5112		7159.2080		4785.1421	
Arsenic (As), total.....	55		5.9		2.0	U	3.3	
Barium (Ba), total.....	54.3569		20.0376		19.8946		28.4413	
Beryllium (Be), total.....	2.4819	U	2.3764	U	2.4559	U	2.6231	U
Calcium (Ca), total.....	4893.8643		6321.5371		1678.6605		1952.7460	
Cadmium (Cd), total.....	2.8779		1.7921		1.8980		1.6369	
Cobalt (Co), total.....	14.3689	U	13.7579	U	14.2186	U	15.1863	U
Chromium (Cr), total.....	24.5012		6.2536	U	6.4855		6.9029	U
Cesium (Cs), total.....								
Copper (Cu), total.....	22.8470		6.4101		9.2471		7.6399	
Iron (Fe), total.....	11157.1289		5269.9995		5751.4341		4696.7539	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1100		4000		3500		1500	
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	2959.9529		739.9830		1535.6863		1314.2607	
Manganese (Mn), total.....	52.6119		30.5728		41.1966		67.2958	
Molybdenum(Mo), total.....	14.3689	U	13.7579	U	14.2186	U	15.1863	U
Sodium (Na), total.....	1371.5760	U	1313.2531	U	1827.0953		1449.6029	U
Nickel (Ni), total.....	24.1659	U	23.1383	U	23.9130	U	25.5406	U
Lead (Pb), total.....	25		28		24		2.3	
Antimony (Sb), total.....	5.8635		4.9427		4.7053		4.4976	
Selenium (Se), total.....	1.0	U	1.0	U	0.9	J	1.0	U
Strontium (Sr), total.....	75.0452		13.1030		15.0171		19.6052	
Thallium (Tl), total.....	5.3557		5.1279	U	5.2996	U	5.6604	U
Vanadium (V), total.....	49.2187		15.0086	U	15.5112	U	16.5669	U
Zinc (Zn), total.....	71.8803		20.7202		34.3555		26.6176	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-023		BH87-881-024		BH87-881-071		BH87-881-087	
Customer ID:	SP098706CT		SP098708BR		SP108700DH		SP1087017D	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.8929	U	4.7646	U	4.7681	U	4.8707	U
Aluminum (Al), total.....	6553.5908		10201.8125		10997.4609		9461.2373	
Arsenic (As), total.....	2.0	U	9.0		8.0		3.4	
Barium (Ba), total.....	66.9900		63.4126		79.9563		87.7437	
Beryllium (Be), total.....	4.4770		2.3823	U	2.3841	U	2.4354	U
Calcium (Ca), total.....	2836.4290		4141.4092		17391.3359		4378.8843	
Cadmium (Cd), total.....	1.9789		2.2482		4.0355		2.7530	
Cobalt (Co), total.....	14.1636	U	13.7924	U	13.8025	U	14.0994	U
Chromium (Cr), total.....	6.4380	U	13.2480		10.5170		7.7694	
Cesium (Cs), total.....								
Copper (Cu), total.....	14.9800		19.9653		12.4492		10.6761	
Iron (Fe), total.....	3491.3313		7600.2026		10441.6611		10115.9355	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1400		1100		3600		1000	
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	1556.5156		2542.0427		1674.7771		2088.5320	
Manganese (Mn), total.....	19.4910		31.5603		139.8286		99.9442	
Molybdenum(Mo), total.....	14.1636	U	13.7924	U	13.8025		14.0994	U
Sodium (Na), total.....	1351.9789	U	1316.5468	U	1317.5123	U	1345.8563	U
Nickel (Ni), total.....	23.8206	U	23.1963	U	23.2133	U	23.7127	U
Lead (Pb), total.....	20		28		22		17	
Antimony (Sb), total.....	5.0409		2.3226		2.2914		3.8239	
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	78.9327		85.3364		34.6784		36.0053	
Thallium (Tl), total.....	5.2792	U	5.1408	U	5.1446	U	5.2552	U
Vanadium (V), total.....	20.9679	U	27.1384		31.1566		15.3812	U
Zinc (Zn), total.....	28.7914		68.6979		37.2888		61.2966	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-072		BH87-881-073		BH87-881-074		BH87-881-075	
Customer ID:	SP108702DH		SP108704BR		SP108705DH		SP108707DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	5.1874	U	4.9921	U	5.5219		5.0300	U
Aluminum (Al), total.....	9561.7236		7880.0576		8315.8359		4059.2974	
Arsenic (As), total.....	5.4		5.9		3.6		7.0	
Barium (Ba), total.....	166.1359		130.7416		95.1661		50.3737	
Beryllium (Be), total.....	11.4445		3.6578		2.4491	U	2.5150	U
Calcium (Ca), total.....	39223.7422		20445.0566		13617.8330		2444.0510	
Cadmium (Cd), total.....	3.0477		3.1792		2.0760		2.8176	
Cobalt (Co), total.....	15.9527		14.4509	U	14.1788	U	14.5606	
Chromium (Cr), total.....	12.6084		13.2230		9.6282		6.6185	
Cesium (Cs), total.....								
Copper (Cu), total.....	17.7785		22.4125		21.6760		9.5689	
Iron (Fe), total.....	17124.2227		35794.7344		27514.6035		7066.4751	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1600		1100		1100		1100	
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	2670.1360		2419.7397		2453.0784		1064.7352	
Manganese (Mn), total.....	205.3798		509.1434		118.7996		66.2806	
Molybdenum(Mo), total.....	15.0163	U	14.4509	U	14.1788	U	14.5606	U
Sodium (Na), total.....	1433.3694	U	1379.4010	U	1353.4304	U	1389.8777	U
Nickel (Ni), total.....	25.2546	U	24.3037	U	23.8462	U	24.4883	
Lead (Pb), total.....	16		22		17		21	
Antimony (Sb), total.....	4.2263		2.1676	U	2.8574		2.1841	U
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	78.4589		65.6218		58.8300		24.4749	
Thallium (Tl), total.....	5.5970	U	5.3862	U	5.2848	U	5.4271	
Vanadium (V), total.....	16.3814	U	20.8841		15.4678	U	15.8843	U
Zinc (Zn), total.....	53.4563		68.2930		65.8006		22.6091	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-077	BH87-881-078	BH87-881-079	BH87-881-086
Customer ID:	SP108711DH	SP108713DH	SP108715DH	SP108717DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver	(Ag), total.....	4.9657	U	4.5901	U	4.8728	U	4.5917	U
Aluminum	(Al), total.....	10613.6797		7390.7783		5337.0874		7236.2070	
Arsenic	(As), total.....	4.7		2.0		4.1		3.4	
Barium	(Ba), total.....	120.2224		67.5870		36.2122		98.7589	
Beryllium	(Be), total.....	2.4828	U	2.4158		2.7321		3.6627	
Calcium	(Ca), total.....	4153.1597		3547.7944		2124.3560		3451.5979	
Cadmium	(Cd), total.....	2.6483		2.0143		2.6610		2.5593	
Cobalt	(Co), total.....	14.3743	U	13.2870	U	14.1055	U	16.0852	
Chromium	(Cr), total.....	9.7536		10.4177		7.5345		9.0557	
Cesium	(Cs), total.....								
Copper	(Cu), total.....	14.7796		11.9763		10.2829		11.0292	
Iron	(Fe), total.....	5855.2471		6611.2026		4849.6709		6904.8188	
Mercury	(Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium	(K), total.....	1000		1000	U	1000	U	1100	
Lithium	(Li), total.....	100	U	100	U	100	U	100	U
Magnesium	(Mg), total.....	1614.5580		1449.8440		1246.7448		1527.9768	
Manganese	(Mn), total.....	15.3516		49.5976		21.9864		425.7629	
Molybdenum	(Mo), total.....	14.3743	U	13.2870	U	14.1055	U	13.2917	U
Sodium	(Na), total.....	1372.0930	U	1268.3057	U	1346.4323	U	1268.7500	U
Nickel	(Ni), total.....	24.1750	U	22.3463	U	23.7229	U	22.3542	U
Lead	(Pb), total.....	17		17		9.0		12	
Antimony	(Sb), total.....	2.2406		1.9931	U	3.1652		2.4895	
Selenium	(Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium	(Sr), total.....	33.8395		29.8505		16.4814		39.2725	
Thallium	(Tl), total.....	5.3577	U	4.9524	U	5.2575	U	4.9542	U
Vanadium	(V), total.....	15.6811	U	14.4949	U	15.3878	U	14.5000	U
Zinc	(Zn), total.....	35.5319		36.0759		42.2293		44.0459	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-088	BH87-881-089	BH87-881-095	BH87-881-096
Customer ID:	SP108719DH	SP108721WT	SP108723DH	SP108724DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver (Ag), total.....	4.6687 U	5.4775 U	4.5952 U	4.8091 U
Aluminum (Al), total.....	15699.0830	12056.5049	11807.0098	10209.5801
Arsenic (As), total.....	5.3	2.1	2.5	3.4
Barium (Ba), total.....	94.4078	78.1214	108.5335	46.3019
Beryllium (Be), total.....	2.3343 U	2.7387 U	2.2976 U	2.4045 U
Calcium (Ca), total.....	6820.9590	7454.2163	4610.6489	4460.8799
Cadmium (Cd), total.....	100.6616	2.7127	2.8459	2.9537
Cobalt (Co), total.....	13.5146 U	15.8559 U	13.3018 U	13.9210
Chromium (Cr), total.....	15.5294	9.1269	10.5320	7.0497
Cesium (Cs), total.....				
Copper (Cu), total.....	17.0238	22.9677	7.7859	10.3876
Iron (Fe), total.....	11511.1816	8064.9346	5088.5801	6434.1040
Mercury (Hg), total.....	0.2	0.2 U	0.2 U	0.24
Potassium (K), total.....	1500	1400	1200	950 J
Lithium (Li), total.....	100 U	100 U	100 U	100 U
Magnesium (Mg), total.....	2684.5422	2298.0342	1694.7968	1792.9387
Manganese (Mn), total.....	43.1264	31.8018	24.7546	46.7755
Molybdenum(Mo), total.....	13.5146 U	15.8559 U	13.3018 U	13.9210 U
Sodium (Na), total.....	1290.0303 U	1513.5135 U	1269.7161 U	1328.8264 U
Nickel (Ni), total.....	22.7291 U	26.6667 U	22.3712 U	23.4127 U
Lead (Pb), total.....	24	27	18	18
Antimony (Sb), total.....	4.6991	3.1946	2.1679	2.5243
Selenium (Se), total.....	1.0 U	1.0 U	1.0 U	1.0 U
Strontium (Sr), total.....	69.8480	86.5850	49.8968	50.0194
Thallium (Tl), total.....	5.0373 U	5.9099 U	4.9579 U	5.1888 U
Vanadium (V), total.....	14.7432 U	23.7727	22.9561	26.4956
Zinc (Zn), total.....	51.9555	50.9199	36.1526	55.8000

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	BH87-881-045		BH87-881-034		BH87-881-046		BH87-881-047	
Customer ID:	SP11870008		SP118708DH		SP118711DH		SP118714DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total	4.7165	U	4.9438	U	4.8703	U	4.7984	U
Aluminum (Al), total	3027.0559		7888.6597		4992.9146		6936.2925	
Arsenic (As), total	6.1		5.1		4.9		6.3	
Barium (Ba), total	51.9740		105.1292		74.1090		92.6253	
Beryllium (Be), total	2.4695	U	3.1130		3.1012		2.3992	U
Calcium (Ca), total	6246.5269		5131.8975		3062.0996		5715.7617	
Cadmium (Cd), total	2.3714		3.4179		1.8347		2.2755	
Cobalt (Co), total	13.6529	U	14.3111	U	14.0982	U	13.8900	U
Chromium (Cr), total	6.2059	U	6.5050	U	6.4083	U	6.3136	U
Cesium (Cs), total								
Copper (Cu), total	6.0400		10.1376		8.8529		10.4387	
Iron (Fe), total	7263.6670		11180.7686		9234.2656		10065.9443	
Mercury (Hg), total	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total	1100		1400		1400		1600	
Lithium (Li), total	100	U	100	U	100	U	100	U
Magnesium (Mg), total	1221.5802		1754.7926		1328.9642		1785.7340	
Manganese (Mn), total	170.7746		171.3658		93.0562		205.1515	
Molybdenum(Mo), total	13.6529	U	14.3111	U	14.0982	U	13.8900	U
Sodium (Na), total	1303.2312	U	1366.0555	U	1345.7366	U	1325.8656	U
Nickel (Ni), total	22.9617	U	24.0686	U	25.1847		29.2828	
Lead (Pb), total	27		17		24		21	
Antimony (Sb), total	4.4147		2.2801		2.8456		6.2159	
Selenium (Se), total	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total	22.8165		32.4674		48.3218		48.7611	
Thallium (Tl), total	5.3289	U	5.4576	U	5.2548	U	5.1772	U
Vanadium (V), total	22.2846		36.7325		25.5338		30.1766	
Zinc (Zn), total	30.7846		39.9186		45.0616		49.9613	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-048		BH87-881-049		BH87-881-050		BH87-881-051	
Customer ID:	SP118716DH		SP118719DH		SP118721DH		SP118724DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total	4.9158	U	4.5514	U	4.3308	U	4.5426	U
Aluminum (Al), total	8580.0400		4022.3306		1430.8534		4174.4302	
Arsenic (As), total	7.4		5.4		3.0		2.5	
Barium (Ba), total	117.5529		37.8619		21.5632		51.5583	
Beryllium (Be), total	2.4579	U	2.2757	U	2.1654	U	2.2713	U
Calcium (Ca), total	2872.7556		7882.5796		772.4771		2377.0010	
Cadmium (Cd), total	1.5836		2.1621		1.9054		2.8755	
Cobalt (Co), total	14.2300	U	13.1750	U	12.5366	U	13.1497	U
Chromium (Cr), total	7.6179		5.9886	U	5.6984	U	5.9771	U
Cesium (Cs), total								
Copper (Cu), total	10.6982		8.9666		3.5900	U	13.2599	
Iron (Fe), total	17913.5117		5892.2856		2416.8628		7806.1587	
Mercury (Hg), total	0.2	U	0.2		0.2	U	0.2	U
Potassium (K), total	1900		1000		1000	U	1100	
Lithium (Li), total	100	U	100	U	100	U	100	U
Magnesium (Mg), total	1991.4700		1270.5951		516.3915		1437.0243	
Manganese (Mn), total	330.1747		68.5208		24.7978		137.4513	
Molybdenum(Mo), total	14.2300	U	13.1750	U	12.5366	U	13.1497	U
Sodium (Na), total	1358.3162	U	1257.6149	U	1196.6716	U	1255.1975	U
Nickel (Ni), total	23.9322	U	22.1580	U	21.0842	U	22.1154	U
Lead (Pb), total	16		21		17		21	
Antimony (Sb), total	5.7438		4.8381		3.6940		4.7448	
Selenium (Se), total	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total	41.9154		45.8203		17.4458		42.9620	
Thallium (Tl), total	5.3039	U	4.9107	U	4.6727	U	4.9012	U
Vanadium (V), total	43.4910		25.6032		17.5376		14.3451	U
Zinc (Zn), total	46.5113		46.6868		17.4719		45.7804	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-052		BH87-881-061		BH87-881-080		BH87-881-081	
Customer ID:	SP118726DH		SP118729DH		SP12870009		SP12870916	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.6370	U	5.2102	U	4.8660	U	4.9259	U
Aluminum (Al), total.....	6434.8384		9891.5254		3277.7385		4150.4360	
Arsenic (As), total.....	1.9		2.5		3.4		5.7	
Barium (Ba), total.....	71.2666		90.1611		27.4575		48.0175	
Beryllium (Be), total.....	2.3185	U	2.6051	U	2.4330	U	2.4630	U
Calcium (Ca), total.....	4191.8398		6571.4048		2076.3572		3025.4209	
Cadmium (Cd), total.....	2.2478		2.6353		2.2624		3.5042	
Cobalt (Co), total.....	13.4230	U	17.6816		14.0857	U	14.2593	U
Chromium (Cr), total.....	6.9098		611.9934		6.4026	U	6.4815	U
Cesium (Cs), total.....								
Copper (Cu), total.....	16.8736		31.8304		7.1063		9.3495	
Iron (Fe), total.....	8214.4609		18835.1074		2550.2820		2213.3069	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1400		1500		1000	U	1000	U
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	2374.9055		3329.5776		764.6980		895.6759	
Manganese (Mn), total.....	99.3270		275.8702		10.5978		7.9006	
Molybdenum(Mo), total.....	13.4230	U	15.0822	U	14.0857	U	14.2593	U
Sodium (Na), total.....	1281.2822	U	1439.6602	U	1344.5469	U	1361.1112	U
Nickel (Ni), total.....	22.6628		366.3510		23.6896	U	23.9815	U
Lead (Pb), total.....	25		20		23		24	
Antimony (Sb), total.....	6.3159		5.0554		4.9960		3.9800	
Selenium (Se), total.....	1.0	U	0.8	J	1.0	U	1.0	U
Strontium (Sr), total.....	66.3585		95.5719		19.0078		25.6819	
Thallium (Tl), total.....	5.0031	U	5.6215	U	5.2501	U	5.3148	U
Vanadium (V), total.....	14.6432	U	27.2563		15.3663	U	15.5556	U
Zinc (Zn), total.....	49.2546		84.2792		24.5063		25.5437	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	BH87-881-069		BH87-881-070		BH87-881-082		BH87-881-083	
Customer ID:	SP128716DH		SP128719DH		SP128721DH		SP128724DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	5.0667	U	5.1780	U	4.9681	U	4.4177	U
Aluminum (Al), total.....	17771.0469		16307.6553		6664.4478		2528.5815	
Arsenic (As), total.....	2.0		4.2		7.7		4.0	
Barium (Ba), total.....	143.0413		171.3810		65.9600		40.8253	
Beryllium (Be), total.....	2.5333	U	2.5890	U	2.4841	U	2.2088	U
Calcium (Ca), total.....	17224.7480		7228.4126		1974.4653		1015.1147	
Cadmium (Cd), total.....	3.2367		2.9804		3.3034		2.3462	
Cobalt (Co), total.....	14.6667	U	14.9890	U	14.3814	U	12.7881	U
Chromium (Cr), total.....	39.7844		35.5966		7.2354		5.8128	U
Cesium (Cs), total.....								
Copper (Cu), total.....	19.2560		19.9803		9.4686		5.6257	
Iron (Fe), total.....	12600.4316		17911.6367		9762.2705		7305.9966	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1300		2100		3000		1000	U
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	2808.8660		2803.0396		1329.0854		613.4424	
Manganese (Mn), total.....	117.5795		223.2827		128.3310		180.6135	
Molybdenum(Mo), total.....	14.6667	U	14.9890	U	14.3814	U	12.7881	U
Sodium (Na), total.....	1400.0000	U	1430.7693	U	1372.7716	U	1220.6790	U
Nickel (Ni), total.....	24.6667	U	25.2088	U	24.1869	U	21.5072	U
Lead (Pb), total.....	20		22		19		10	
Antimony (Sb), total.....	2.2181		5.6757		4.6092		1.9182	U
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	56.5921		53.8361		21.1015		12.1115	
Thallium (Tl), total.....	5.4667	U	5.5968	U	5.3603	U	4.7665	U
Vanadium (V), total.....	30.4498		45.6501		21.6783		13.9506	U
Zinc (Zn), total.....	50.4929		66.4235		32.9833		14.6807	

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-084		BH87-881-085		BH87-881-090		BH87-881-091	
Customer ID:	SP128726DH		SP128729DH		SP128731DH		SP128734DH	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total	4.8796	U	4.5778	U	4.7377	U	4.8280	U
Aluminum (Al), total	4177.1914		5779.7891		11755.2881		11099.0293	
Arsenic (As), total	2.4		3.5		6.4		4.5	
Barium (Ba), total	39.1924		39.8582		97.8809		74.3362	
Beryllium (Be), total	2.4398	U	2.2889	U	2.3688	U	2.4140	U
Calcium (Ca), total	4336.2939		2513.5613		7658.0566		9273.2734	
Cadmium (Cd), total	2.4906		2.5691		3.3635		3.2716	
Cobalt (Co), total	14.1252	U	13.2517	U	13.7143	U	17.3157	
Chromium (Cr), total	6.4205	U	9.5108		15.0141		10.6393	
Cesium (Cs), total								
Copper (Cu), total	15.0261		13.6657		25.8832		22.9218	
Iron (Fe), total	2082.2693		4104.0918		10875.1670		16855.8203	
Mercury (Hg), total	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total	1000	U	1400		1300		1100	
Lithium (Li), total	100	U	100	U	100	U	100	U
Magnesium (Mg), total	1268.9382		1598.5974		3058.2273		2784.3052	
Manganese (Mn), total	14.0954		24.0126		69.3101		104.7534	
Molybdenum(Mo), total	14.1252	U	13.2517	U	13.7143	U	13.9756	U
Sodium (Na), total	1348.3147	U	1264.9310		1309.0911	U	1334.0392	U
Nickel (Ni), total	23.7560	U	22.2869	U	23.0649	U	32.3457	
Lead (Pb), total	26		24		21		22	
Antimony (Sb), total	3.5185		4.5818		5.3369		5.1947	
Selenium (Se), total	1.0	U	1.0	U	1.2		0.6	J
Strontium (Sr), total	48.0698		48.8679		92.8716		98.1042	
Thallium (Tl), total	5.2648	U	4.9393	U	5.1117	U	5.2091	U
Vanadium (V), total	15.4093	U	15.3059		22.2650		28.7326	
Zinc (Zn), total	27.5781		42.5013		91.2125		116.4405	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	BH87-881-092		BH87-881-093		BH87-881-062		BH87-881-063	
Customer ID:	SP128739DH		SP128741DH		SP138700UC		SP138701CT	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.4914	U	4.5735	U	4.8761	U	5.1045	U
Aluminum (Al), total.....	8453.5068		11220.7354		13770.3232		10069.7588	
Arsenic (As), total.....	4.1		3.6		5.3		4.8	
Barium (Ba), total.....	49.9795		41.6004		161.2726		88.0052	
Beryllium (Be), total.....	2.2457	U	2.2868		2.4381	U	2.5522	U
Calcium (Ca), total.....	3293.5530		3264.9297		6215.0596		5617.0957	
Cadmium (Cd), total.....	2.6334		2.6319		1.6275		2.0188	
Cobalt (Co), total.....	14.6682		13.2391	U	14.1150	U	15.7176	
Chromium (Cr), total.....	10.3915		12.2536		12.4206		10.0735	
Cesium (Cs), total.....								
Copper (Cu), total.....	15.1162		12.1564		19.0579		20.9387	
Iron (Fe), total.....	7829.1099		9218.3408		14827.9043		3340.6895	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1100		1400		1400		1000	U
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	2059.5579		2442.7959		2975.5195		2524.3508	
Manganese (Mn), total.....	66.9566		128.6426		225.6887		130.8207	
Molybdenum(Mo), total.....	13.0016	U	13.2391	U	14.1150	U	14.7761	U
Sodium (Na), total.....	1241.0575	U	1263.7362	U	1347.3451	U	1410.4478	U
Nickel (Ni), total.....	23.8633		22.2658	U	23.7389	U	24.8507	U
Lead (Pb), total.....	18		17		20		22	
Antimony (Sb), total.....	2.4741		6.2440		6.9483		3.5795	
Selenium (Se), total.....	0.5	J	0.5	J	1.0	U	1.0	U
Strontium (Sr), total.....	52.5568		48.2116		58.7420		94.0384	
Thallium (Tl), total.....	4.8460	U	4.9346	U	5.2611	U	5.5075	U
Vanadium (V), total.....	19.4693		21.6648		30.8899		25.7814	
Zinc (Zn), total.....	68.9244		65.6830		61.7086		36.8736	

SOLAR POND BOREHOLE SAMPLES
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Sample Information

RFW Batch ID:	BH87-881-064	BH87-881-065	BH87-881-067	BH87-881-068
Customer ID:	SP138703BR	SP138706DH	SP138709DH	SP138711DH
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver (Ag), total.....	5.0201 U	4.6481 U	4.8013 U	4.4798 U
Aluminum (Al), total.....	9162.5557	7966.8970	769.9017	2823.6458
Arsenic (As), total.....	2.9	10	5.3	7.3
Barium (Ba), total.....	71.4716	27.9978	6.3175 U	15.3381
Beryllium (Be), total.....	2.5101 U	2.3240 U	2.4006 U	2.2399 U
Calcium (Ca), total.....	4818.6172	3777.7046	473.8121 U	992.9117
Cadmium (Cd), total.....	2.4268	2.5738	1.9915	2.7270
Cobalt (Co), total.....	14.5319 U	13.4549 U	13.8985 U	12.9677 U
Chromium (Cr), total.....	9.6470	6.1159 U	6.3175 U	5.8944 U
Cesium (Cs), total.....				
Copper (Cu), total.....	28.0112	16.1715	3.9800 U	7.0559
Iron (Fe), total.....	5255.9102	14200.1455	594.1016	3210.3711
Mercury (Hg), total.....	0.2 U	0.2 U	0.2 U	0.2 U
Potassium (K), total.....	1000 U	1000 U	1100	1300
Lithium (Li), total.....	100 U	100 U	100 U	100 U
Magnesium (Mg), total.....	2348.3801	2367.0325	259.3686	767.7449
Manganese (Mn), total.....	59.6647	79.1560	3.8863	17.9586
Molybdenum(Mo), total.....	14.5319 U	13.4549 U	13.8985 U	12.9677 U
Sodium (Na), total.....	1387.1338 U	1284.3347 U	1326.6738 U	1237.8268 U
Nickel (Ni), total.....	24.4400 U	22.6288 U	23.3747 U	21.8093 U
Lead (Pb), total.....	21	28	21	26
Antimony (Sb), total.....	3.6120	5.4798	6.5369	4.2649
Selenium (Se), total.....	1.0 U	1.0 U	1.0 U	1.0 U
Strontium (Sr), total.....	97.2528	58.2842	12.6350 U	24.6390
Thallium (Tl), total.....	5.4164 U	5.0150 U	5.1803 U	4.8334 U
Vanadium (V), total.....	25.3378	21.2234	15.1620 U	14.1466 U
Zinc (Zn), total.....	63.1754	125.9281	12.6350 U	24.7254

SOLAR POND BOREHOLE SAMPLES
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INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-066		BH87-881-094		BH87-881-102		BH87-881-105	
Customer ID:	SP13876DUP		SP148702CT		SP148704BR		SP1587008D	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.7293	U	4.8390	U	4.7774	U	5.0208	U
Aluminum (Al), total.....	1886.7778		10810.0566		8826.3164		20545.6660	
Arsenic (As), total.....	8.3		3.6		4.0		10	
Barium (Ba), total.....	11.5060		53.9755		36.2171		242.3069	
Beryllium (Be), total.....	2.3646	U	2.4195	U	2.6399		2.5104	U
Calcium (Ca), total.....	1112.3563		5514.6147		4868.7192		4789.0874	
Cadmium (Cd), total.....	2.3818		2.7228		2.3047		1.9617	
Cobalt (Co), total.....	13.6900	U	14.0075	U	13.8292	U	14.5338	U
Chromium (Cr), total.....	6.2227	U	10.2045		16.9453		21.4551	
Cesium (Cs), total.....								
Copper (Cu), total.....	5.4085		19.5319		20.7643		22.9607	
Iron (Fe), total.....	2795.7263		6246.3066		8098.8262		29505.4297	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1000	U	960	J	1100		1700	
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	606.6347		2385.4993		2072.2571		3264.7339	
Manganese (Mn), total.....	24.8044		219.7527		109.8744		152.4157	
Molybdenum(Mo), total.....	13.6900	U	14.0075	U	13.8292	U	14.5338	U
Sodium (Na), total.....	1306.7686	U	1337.0787	U	1320.0629	U	1387.3202	U
Nickel (Ni), total.....	23.0240	U	23.5581	U	23.2582	U	40.6855	
Lead (Pb), total.....	27		23		22		18	
Antimony (Sb), total.....	4.1735		5.5540		5.5000		2.6299	
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	17.8846		75.9975		64.2366		61.8732	
Thallium (Tl), total.....	5.1026	U	5.2210	U	5.1545	U	5.4172	U
Vanadium (V), total.....	14.9345	U	31.9753		24.7603		34.2087	
Zinc (Zn), total.....	29.5126		68.3428		34.9346		54.9822	

SOLAR POND BOREHOLE SAMPLES
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Sample Information

RFW Batch ID:	BH87-881-106	BH87-881-103	BH87-881-104	BH87-881-112
Customer ID:	SP1587010DH	SP158702DH	SP158708DH	SP158712WT
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver (Ag), total.....	4.9086 U	4.4607 U	4.7769 U	4.8023 U
Aluminum (Al), total.....	11604.0596	12673.7354	10158.8730	5477.7783
Arsenic (As), total.....	6.4	8.3	7.0	7.0
Barium (Ba), total.....	178.9242	181.5944	120.7201	61.2414
Beryllium (Be), total.....	2.4543 U	2.2303 U	2.3885 U	2.4012 U
Calcium (Ca), total.....	3133.5808	6419.6753	2638.5327	2653.6521
Cadmium (Cd), total.....	2.7760	2.6556	2.3540	2.3505
Cobalt (Co), total.....	14.2091 U	12.9125 U	13.8279 U	13.9015 U
Chromium (Cr), total.....	502.6290	23.9826	8.5370	7.4020
Cesium (Cs), total.....				
Copper (Cu), total.....	28.6358	17.7844	7.1643	10.7071
Iron (Fe), total.....	23469.1582	26992.6172	14665.5303	21362.1152
Mercury (Hg), total.....	0.2 U	0.2 U	0.2 U	0.2 U
Potassium (K), total.....	1100	1300	1100	1000 U
Lithium (Li), total.....	100 U	100	100 U	100 U
Magnesium (Mg), total.....	2077.4043	2454.2354	1716.9120	1409.1851
Manganese (Mn), total.....	501.7424	512.2239	92.8070	105.6572
Molybdenum(Mo), total.....	14.2091 U	12.9125 U	13.8279 U	13.9015 U
Sodium (Na), total.....	1356.3218 U	1232.5581 U	1319.9382 U	1326.9640 U
Nickel (Ni), total.....	542.9685	32.4829	33.3887	23.3798 U
Lead (Pb), total.....	13	8.1	9.5	14
Antimony (Sb), total.....	3.0202	3.2581	2.0742 U	3.0148
Selenium (Se), total.....	1.0 U	1.0 U	1.0 U	1.0 U
Strontium (Sr), total.....	42.9989	56.1214	27.4365	32.9139
Thallium (Tl), total.....	5.2961 U	4.8128 U	5.1540 U	5.1815
Vanadium (V), total.....	23.5280	21.2951	19.8869	21.5089
Zinc (Zn), total.....	45.2158	62.1157	33.9256	46.0462

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-113		BH87-881-114		BH87-881-120		BH87-881-121	
Customer ID:	SP158714CT		SP158717BR		SP168702FS		SP168708UC	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total.....	4.7044	U	4.7061	U	5.0484	U	4.8581	U
Aluminum (Al), total.....	11559.5723		11326.9854		12750.5771		9725.8955	
Arsenic (As), total.....	10		5.6		4.8		14	
Barium (Ba), total.....	144.4901		260.8080		64.6704		43.9583	
Beryllium (Be), total.....	2.3522	U	2.3531	U	103.1250		24.2904	U
Calcium (Ca), total.....	4709.5898		4727.7036		1969.6405		63857.2344	
Cadmium (Cd), total.....	2.4669		3.0263		64.6704		43.9583	
Cobalt (Co), total.....	13.6180	U	13.6230	U	14.6138	U	14.0628	U
Chromium (Cr), total.....	12.3163		11.1749		20.6728		16.5432	
Cesium (Cs), total.....								
Copper (Cu), total.....	22.5689		20.2010		17.3728		4.6193	
Iron (Fe), total.....	10313.5098		8544.8037		16362.6660		8943.7676	
Mercury (Hg), total.....	0.2	U	0.2	U	0.2	U	0.2	U
Potassium (K), total.....	1600		1400		4400		1100	
Lithium (Li), total.....	100	U	100	U	100	U	100	U
Magnesium (Mg), total.....	2866.9333		2801.1902		2345.2297		1989.6312	
Manganese (Mn), total.....	75.5285		64.6485		176.7728		97.6456	
Molybdenum(Mo), total.....	13.6180	U	13.6230	U	14.6138	U	14.0628	U
Sodium (Na), total.....	1299.9003	U	1300.3767	U	1394.9536	U	1342.3618	U
Nickel (Ni), total.....	22.9030	U	22.9114	U	24.5778	U	23.6511	U
Lead (Pb), total.....	24		23		22		8.2	
Antimony (Sb), total.....	5.8248		6.3400		16362.6660		8943.7676	
Selenium (Se), total.....	1.0	U	1.0	U	1.0	U	1.0	U
Strontium (Sr), total.....	79.4804		71.5806		13.6890		43.1470	
Thallium (Tl), total.....	5.0758		5.0777		12750.5771		9725.8955	
Vanadium (V), total.....	32.3801		28.2967		33.3420		15.3413	U
Zinc (Zn), total.....	75.3688		84.9410		103.1250		14.5469	

SOLAR POND BOREHOLE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	BH87-881-122	BH87-881-123
Customer ID:	SP168710CT	SP168711BR
Matrix:	Soil	Soil
Units:	MG/KG	MG/KG

Metals

Silver	(Ag), total.....	4.5160	U	4.6894	U
Aluminum	(Al), total.....	9673.4521		6670.4463	
Arsenic	(As), total.....	13		16	
Barium	(Ba), total.....	83.1467		345.0614	
Beryllium	(Be), total.....	24.1451		50.6642	
Calcium	(Ca), total.....	85844.5313		10273.9453	
Cadmium	(Cd), total.....	83.1467		345.0614	
Cobalt	(Co), total.....	13.0726	U	15.5847	
Chromium	(Cr), total.....	17.8019		16.9030	
Cesium	(Cs), total.....				
Copper	(Cu), total.....	10.6346		22.3789	
Iron	(Fe), total.....	10297.3320		10681.1309	
Mercury	(Hg), total.....	0.2	U	0.2	U
Potassium	(K), total.....	1200		920	J
Lithium	(Li), total.....	100	U	100	U
Magnesium	(Mg), total.....	2199.8521		1571.4116	
Manganese	(Mn), total.....	169.8198		1257.9821	
Molybdenum	(Mo), total.....	13.0726	U	13.5745	U
Sodium	(Na), total.....	1247.8416	U	1295.7446	U
Nickel	(Ni), total.....	21.9858	U	22.8298	U
Lead	(Pb), total.....	21		20	
Antimony	(Sb), total.....	10297.3320		10681.1309	
Selenium	(Se), total.....	1.0	U	1.0	U
Strontium	(Sr), total.....	72.3377		36.2240	
Thallium	(Tl), total.....	9673.4521		6670.4463	
Vanadium	(V), total.....	22.4850		16.0195	
Zinc	(Zn), total.....	24.1451		50.6642	

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-052-027	C188608860	
8608-052-030	C188608861	
8608-056-035	C188608862	35
8609-022-020	C208609860	
8609-022-023	C208609861	
8609-022-026	C208609862	
8609-022-032	C228609861	
8609-022-035	C228609862	
8609-022-008	C258608860	
8609-022-002	C258608861	02
8609-022-005	C258608862	05
8609-022-011	C278609860	11
8609-022-014	C278609861	14
8609-022-017	C278609862	17

SOLAR POND CORE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-052-027	8608-052-030	8608-056-035	8609-022-020
Customer ID:	C188608860	C188608861	C188608862	C208609860
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver (Ag), total.....	1.2 U	1.2 U	1.1 U	2.2 U
Aluminum (Al), total.....	25000	11700	9440	10600
Arsenic (As), total.....	1.1	0.8	0.8	0.80
Barium (Ba), total.....	210	42	33	70
Beryllium (Be), total.....	1.7	1.2	1.1	1.1 U
Calcium (Ca), total.....	8000	7160	19200	10400
Cadmium (Cd), total.....	0.6 U	0.6 U	0.6 U	1.1 U
Cobalt (Co), total.....	5.8 U	6 U	34	11 U
Chromium (Cr), total.....	24	12	16	8.0
Cesium (Cs), total.....	29	30	29 U	22 U
Copper (Cu), total.....	2.1	1.0	3.0	14
Iron (Fe), total.....	22000	7100	11500	12400
Mercury (Hg), total.....	0.12 U	0.12 U	0.14	0.98
Potassium (K), total.....	3270	1280	2920	1720
Lithium (Li), total.....				
Magnesium (Mg), total.....	6730	2650	4920	2000
Manganese (Mn), total.....	330	6.8	120	160
Molybdenum(Mo), total.....	12 U	12 U	11 U	33 U
Sodium (Na), total.....	58 U	60 U	57 U	160
Nickel (Ni), total.....	7.1	4.8 U	22	42
Lead (Pb), total.....	12	17	19	7.8
Antimony (Sb), total.....	0.6 U	0.6 U	0.6 U	1.1 U
Selenium (Se), total.....	0.05 U	0.08	0.04 U	0.31
Strontium (Sr), total.....	57	53	130	39
Thallium (Tl), total.....	0.12 U	0.12 U	0.11 U	2.2 U
Vanadium (V), total.....	33	15	25	16
Zinc (Zn), total.....	70	62	93	51

SOLAR POND CORE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-023	8609-022-026	8609-022-032	8609-022-035
Customer ID:	C208609861	C208609862	C228609861	C228609862
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver	(Ag),	total.....	2.4	U	2.4	U	2.4	U	2.5	U
Aluminum	(Al),	total.....	6500		15000		11900		11900	
Arsenic	(As),	total.....	0.99		0.92		0.57		0.40	
Barium	(Ba),	total.....	29		57		75		140	
Beryllium	(Be),	total.....	1.2	U	1.2	U	1.2	U	1.2	U
Calcium	(Ca),	total.....	1620		9160		6500		5950	
Cadmium	(Cd),	total.....	1.2	U	1.2	U	1.2	U	1.2	U
Cobalt	(Co),	total.....	12	U	12	U	12	U	12	U
Chromium	(Cr),	total.....	5.9		11		2.4	U	13	
Cesium	(Cs),	total.....	24	U	24	U	24	U	25	
Copper	(Cu),	total.....	4.7	U	15		11		10	
Iron	(Fe),	total.....	8520		7590		13000		10600	
Mercury	(Hg),	total.....	0.12	U	0.20		0.12	U	0.51	
Potassium	(K),	total.....	1020		1740		2000		2130	
Lithium	(Li),	total.....								
Magnesium	(Mg),	total.....	890		2840		2860		2910	
Manganese	(Mn),	total.....	64		29		160		160	
Molybdenum	(Mo),	total.....	35	U	36	U	36	U	37	U
Sodium	(Na),	total.....	160		340		240		1140	
Nickel	(Ni),	total.....	9.4	U	9.6	U	41		9.9	U
Lead	(Pb),	total.....	7.8		22		4.3		17	
Antimony	(Sb),	total.....	1.2	U	1.2	U	1.2	U	1.2	U
Selenium	(Se),	total.....	0.40		0.46		0.36		0.37	
Strontium	(Sr),	total.....	22		85		48		67	
Thallium	(Tl),	total.....	2.4	U	2.4	U	2.4	U	2.5	U
Vanadium	(V),	total.....	14		20		12	U	17	
Zinc	(Zn),	total.....	34		81		59		65	

SOLAR POND CORE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-008		8609-022-002		8609-022-005		8609-022-011	
Customer ID:	C258608860		C258608861		C258608862		C278609860	
Matrix:	Soil		Soil		Soil		Soil	
Units:	MG/KG		MG/KG		MG/KG		MG/KG	
Metals								
Silver (Ag), total	2.2	U	2.4	U	2.4	U	2.2	U
Aluminum (Al), total	15000		16200		10300		5200	
Arsenic (As), total	0.58	U	1.0		0.05	U	0.77	
Barium (Ba), total	22	U	550		29		27	
Beryllium (Be), total	1.1	U	1.2	U	1.2	U	1.1	U
Calcium (Ca), total	254000		3690		3400		3660	
Cadmium (Cd), total	1.1	U	1.2	U	1.2	U	1.1	U
Cobalt (Co), total	11	U	12	U	12	U	11	U
Chromium (Cr), total	18		16		7.5		21	
Cesium (Cs), total	22	U	24	U	24	U	22	U
Copper (Cu), total	4.5	U	23		6.4		4.3	
Iron (Fe), total	10200		14700		2750		9570	
Mercury (Hg), total	0.16		0.12	U	0.12	U	0.11	U
Potassium (K), total	2190		2170		750		1550	
Lithium (Li), total								
Magnesium (Mg), total	8810		4920		2400		640	
Manganese (Mn), total	130		190		61		120	
Molybdenum(Mo), total	34	U	36	U	35	U	32	U
Sodium (Na), total	340		230		310		420	
Nickel (Ni), total	18		19		9.4	U	10	
Lead (Pb), total	5.6		22		15		0.2	U
Antimony (Sb), total	1.1	U	1.2	U	1.2	U	1.1	U
Selenium (Se), total	0.34		0.34		0.05	U	0.26	
Strontium (Sr), total	1030		170		50		17	U
Thallium (Tl), total	2.2	U	2.4	U	2.4	U	2.2	U
Vanadium (V), total	24		40		12		15	
Zinc (Zn), total	32		94		14		10	

SOLAR POND CORE SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-022-014	8609-022-017
Customer ID:	C278609861	C278609862
Matrix:	Soil	Soil
Units:	MG/KG	MG/KG

Metals

Silver	(Ag), total.....	2.5	U	2.4	U
Aluminum	(Al), total.....	14400		11500	
Arsenic	(As), total.....	0.91		0.95	
Barium	(Ba), total.....	110		38	
Beryllium	(Be), total.....	1.3	U	1.2	U
Calcium	(Ca), total.....	5750		5280	
Cadmium	(Cd), total.....	1.3	U	1.2	U
Cobalt	(Co), total.....	13	U	12	U
Chromium	(Cr), total.....	11		11	
Cesium	(Cs), total.....	25	U	24	U
Copper	(Cu), total.....	17		9.8	
Iron	(Fe), total.....	5110		10600	
Mercury	(Hg), total.....	0.25	U	2.8	
Potassium	(K), total.....	1320		1050	
Lithium	(Li), total.....				
Magnesium	(Mg), total.....	3700		3700	
Manganese	(Mn), total.....	180		43	
Molybdenum	(Mo), total.....	38	U	36	U
Sodium	(Na), total.....	400		340	
Nickel	(Ni), total.....	10	U	26	
Lead	(Pb), total.....	25		14	
Antimony	(Sb), total.....	1.3	U	1.2	U
Selenium	(Se), total.....	0.40		0.38	
Strontium	(Sr), total.....	130		56	
Thallium	(Tl), total.....	2.5	U	2.4	U
Vanadium	(V), total.....	21		14	
Zinc	(Zn), total.....	84		71	

APPENDIX C-2

GROUND-WATER ANALYTICAL DATA
ALLUVIAL WELLS

VOLATILE ORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0187-881-072	11-86-05-04-87	
0287-881-035	11-86-06-08-87	
0187-881-063	12-86-04-23-87	
0287-881-037	12-86-06-10-87	
0387-881-066	12-86-08-03-87	
0188-881-038	13-86-03-14-88	
0187-881-121	13-86-04-23-87	
0287-881-083	13-86-06-11-87	
0387-881-067	13-86-08-04-87	
0188-881-023	15-86-03-14-88	
0187-881-060	15-86-04-22-87	
0287-881-040	15-86-06-10-87	
0387-881-069	15-86-08-05-87	
0487-881-052	15-86-12-08-87	
0188-881-025	17-86-03-14-88	
0187-881-061	17-86-04-22-87	
0287-881-042	17-86-06-10-87	
0387-881-070	17-86-08-05-87	
0487-881-053	17-86-12-08-87	
0187-881-033	22-86-03-24-87	
0287-881-070	22-86-06-24-87	
0387-881-103	22-86-08-27-87	
0487-881-076	22-86-12-18-87	
0187-881-022	26-86-03-18-87	
0387-881-105	26-86-08-27-87	
0188-881-029	28-86-03-16-88	
0187-881-028	28-86-03-19-87	
0287-881-067	28-86-06-24-87	
0387-881-108	28-86-09-08-87	
0188-881-039	37-87-03-16-88	
0188-881-040	56-87-03-16-88	
8609-049-046	G118609860	46
8609-030-006	G128609860	06
8609-030-016	G128609862	16
8609-025-006	G158609860	06
8609-025-016	G158609862	16
8609-065-006	G178609860	06
8609-065-016	G178609862	16
8609-051-006	G228609860	06
8609-049-006	G268609860	06
8609-049-015	G288609860	15

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	0187-881-072	0287-881-035	0187-881-063	0287-881-037
Customer ID:	11-86-05-04-87	11-86-06-08-87	12-86-04-23-87	12-86-06-10-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Toluene-d8:	%	%	%	%
Bromofluorobenzene:	%	%	%	%
1,2-Dichloroethane-d4:	%	%	%	%

Analytes

Chloromethane.....	NR	NR	NR	NR
Bromomethane.....	NR	NR	NR	NR
Vinyl Chloride.....	NR	NR	NR	NR
Chloroethane.....	NR	NR	NR	NR
Methylene Chloride.....	NR	NR	NR	NR
Acetone.....	NR	NR	NR	NR
Carbon Disulfide.....	NR	NR	NR	NR
1,1-Dichloroethene.....	4 U	4 U	4 U	4 U
1,1-Dichloroethane.....	NR	NR	NR	NR
Trans-1,2-Dichloroethene.....	4 U	4 U	4 U	4 U
Chloroform.....	4 U	4 U	4 U	4 U
1,2-Dichloroethane.....	4 U	4 U	4 U	4 U
2-Butanone.....	NR	NR	NR	NR
1,1,1-Trichloroethane.....	4 U	4 U	4 U	4 U
Carbon Tetrachloride.....	4 U	4 U	4 U	4 U
Vinyl Acetate.....	NR	NR	NR	NR
Bromodichloromethane.....	NR	NR	NR	NR
1,2-Dichloropropane.....	NR	NR	NR	NR
Trans-1,3-Dichloropropene.....	NR	NR	NR	NR
Trichloroethene.....	4 U	4 U	4 U	4 U
Dibromochloromethane.....	NR	NR	NR	NR
1,1,2-Trichloroethane.....	4 U	4 U	4 U	4 U
Benzene.....	NR	NR	NR	NR
cis-1,3-Dichloropropene.....	NR	NR	NR	NR
2-Chloroethylvinylether.....	NR	NR	NR	NR
Bromoform.....	NR	NR	NR	NR
4-Methyl-2-pentanone.....	NR	NR	NR	NR
2-Hexanone.....	NR	NR	NR	NR
Tetrachloroethene.....	4 U	4 U	4 U	4 U
1,1,2,2-Tetrachloroethane.....	NR	NR	NR	NR
Toluene.....	NR	NR	NR	NR
Chlorobenzene.....	NR	NR	NR	NR
Ethylbenzene.....	NR	NR	NR	NR
Styrene.....	NR	NR	NR	NR
Total Xylenes.....	NR	NR	NR	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-066	0188-881-038	0187-881-121	0287-881-083
Customer ID:	12-86-08-03-87	13-86-03-14-88	13-86-04-23-87	13-86-06-11-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:		1.0	1	1

Surrogate Recovery

Toluene-d8:	%	106 %	%	%
Bromofluorobenzene:	%	116 %	%	%
1,2-Dichloroethane-d4:	%	94 %	%	%

Analytes

Chloromethane.....	NR	10 U	NR	NR
Bromomethane.....	NR	10 U	NR	NR
Vinyl Chloride.....	NR	10 U	NR	NR
Chloroethane.....	NR	10 U	NR	NR
Methylene Chloride.....	NR	5 U	NR	NR
Acetone.....	NR	10 U	NR	NR
Carbon Disulfide.....	NR	5 U	NR	NR
1,1-Dichloroethene.....	5 U	5 U	4 U	4 U
1,1-Dichloroethane.....	NR	5 U	NR	NR
Trans-1,2-Dichloroethene.....	5 U	5 U	4 U	4 U
Chloroform.....	5 U	5 U	4 U	4 U
1,2-Dichloroethane.....	5 U	5 U	4 U	4 U
2-Butanone.....	NR	10 U	NR	NR
1,1,1-Trichloroethane.....	5 U	5 U	4 U	4 U
Carbon Tetrachloride.....	5 U	5 U	4 U	4 U
Vinyl Acetate.....	NR	10 U	NR	NR
Bromodichloromethane.....	NR	5 U	NR	NR
1,2-Dichloropropane.....	NR	5 U	NR	NR
Trans-1,3-Dichloropropene.....	NR	5 U	NR	NR
Trichloroethene.....	5 U	55	4 U	4 U
Dibromochloromethane.....	NR	5 U	NR	NR
1,1,2-Trichloroethane.....	5 U	5 U	4 U	4 U
Benzene.....	NR	5 U	NR	NR
cis-1,3-Dichloropropene.....	NR	5 U	NR	NR
2-Chloroethylvinylether.....	NR		NR	NR
Bromoform.....	NR	5 U	NR	NR
4-Methyl-2-pentanone.....	NR	10 U	NR	NR
2-Hexanone.....	NR	10 U	NR	NR
Tetrachloroethene.....	5 U	5 U	4 U	4 U
1,1,2,2-Tetrachloroethane.....	NR	5 U	NR	NR
Toluene.....	NR	5 U	NR	NR
Chlorobenzene.....	NR	5 U	NR	NR
Ethylbenzene.....	NR	5 U	NR	NR
Styrene.....	NR	5 U	NR	NR
Total Xylenes.....	NR	5 U	NR	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-067	0188-881-023	0187-881-060	0287-881-040
Customer ID:	13-86-08-04-87	15-86-03-14-88	15-86-04-22-87	15-86-06-10-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:		1.0	1	1

Surrogate Recovery

Toluene-d8:	%	106 %	%	%
Bromofluorobenzene:	%	118 %	%	%
1,2-Dichloroethane-d4:	%	96 %	%	%

Analytes

Chloromethane.....	NR	10 U	NR	NR
Bromomethane.....	NR	10 U	NR	NR
Vinyl Chloride.....	NR	10 U	NR	NR
Chloroethane.....	NR	10 U	NR	NR
Methylene Chloride.....	NR	5 U	NR	NR
Acetone.....	NR	10 U	NR	NR
Carbon Disulfide.....	NR	5 U	NR	NR
1,1-Dichloroethene.....	5 U	5 U	4 U	4 U
1,1-Dichloroethane.....	NR	5 U	NR	NR
Trans-1,2-Dichloroethene.....	5 U	5 U	4 U	4 U
Chloroform.....	125	5 U	4 U	4 U
1,2-Dichloroethane.....	5 U	5 U	4 U	4 U
2-Butanone.....	NR	10 U	NR	NR
1,1,1-Trichloroethane.....	5 U	5 U	4 U	4 U
Carbon Tetrachloride.....	5 U	5 U	4 U	4 U
Vinyl Acetate.....	NR	10 U	NR	NR
Bromodichloromethane.....	NR	5 U	NR	NR
1,2-Dichloropropane.....	NR	5 U	NR	NR
Trans-1,3-Dichloropropene.....	NR	5 U	NR	NR
Trichloroethene.....	5	5 U	4 U	4 U
Dibromochloromethane.....	NR	5 U	NR	NR
1,1,2-Trichloroethane.....	6	5 U	4 U	4 U
Benzene.....	NR	5 U	NR	NR
cis-1,3-Dichloropropene.....	NR	5 U	NR	NR
2-Chloroethylvinylether.....	NR		NR	NR
Bromoform.....	NR	5 U	NR	NR
4-Methyl-2-pentanone.....	NR	10 U	NR	NR
2-Hexanone.....	NR	10 U	NR	NR
Tetrachloroethene.....	5 U	5 U	4 U	4 U
1,1,2,2-Tetrachloroethane.....	NR	5 U	NR	NR
Toluene.....	NR	5 U	NR	NR
Chlorobenzene.....	NR	5 U	NR	NR
Ethylbenzene.....	NR	5 U	NR	NR
Styrene.....	NR	5 U	NR	NR
Total Xylenes.....	NR	5 U	NR	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-069	0487-881-052	0188-881-025	0187-881-061
Customer ID:	15-86-08-05-87	15-86-12-08-87	17-86-03-14-88	17-86-04-22-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:		1.0	1.0	1

Surrogate Recovery

Toluene-d8:	%	108 %	106 %	%
Bromofluorobenzene:	%	86 %	114 %	%
1,2-Dichloroethane-d4:	5 %	92 %	102 %	%

Analytes

Chloromethane.....	NR	10 U	10 U	NR
Bromomethane.....	NR	10 U	10 U	NR
Vinyl Chloride.....	NR	10 U	10 U	NR
Chloroethane.....	NR	10 U	10 U	NR
Methylene Chloride.....	NR	5 U	5 U	NR
Acetone.....	NR	10 U	10 U	NR
Carbon Disulfide.....	NR	5 U	5 U	NR
1,1-Dichloroethene.....	5 U	5 U	5 U	4 U
1,1-Dichloroethane.....	NR	5 U	5 U	NR
Trans-1,2-Dichloroethene.....	5 U	5 U	5 U	4 U
Chloroform.....	5 U	5 U	5 U	4 U
1,2-Dichloroethane.....	5 U	5 U	5 U	4 U
2-Butanone.....	NR	10 U	10 U	NR
1,1,1-Trichloroethane.....	5 U	5 U	5 U	4 U
Carbon Tetrachloride.....	5 U	5 U	5 U	4 U
Vinyl Acetate.....	NR	10 U	10 U	NR
Bromodichloromethane.....	NR	5 U	5 U	NR
1,2-Dichloropropane.....	NR	5 U	5 U	NR
Trans-1,3-Dichloropropene.....	NR	5 U	5 U	NR
Trichloroethene.....	5 U	5 U	5 U	4 U
Dibromochloromethane.....	NR	5 U	5 U	NR
1,1,2-Trichloroethane.....	5 U	5 U	5 U	4 U
Benzene.....	NR	5 U	5 U	NR
cis-1,3-Dichloropropene.....	NR	5 U	5 U	NR
2-Chloroethylvinylether.....	NR	NR		NR
Bromoform.....	NR	5 U	5 U	NR
4-Methyl-2-pentanone.....	NR	10 U	10 U	NR
2-Hexanone.....	NR	10 U	10 U	NR
Tetrachloroethene.....	5 U	5 U	3 J	4 U
1,1,2,2-Tetrachloroethane.....	NR	5 U	5 U	NR
Toluene.....	NR	5 U	5 U	NR
Chlorobenzene.....	NR	5 U	5 U	NR
Ethylbenzene.....	NR	5 U	5 U	NR
Styrene.....	NR	5 U	5 U	NR
Total Xylenes.....	NR	5 U	5 U	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0287-881-042	0387-881-070	0487-881-053	0187-881-033
Customer ID:	17-86-06-10-87	17-86-08-05-87	17-86-12-08-87	22-86-03-24-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1		1.0	1

Surrogate Recovery

Toluene-d8:	%	%	106 %	%
Bromofluorobenzene:	%	%	84 %	%
1,2-Dichloroethane-d4:	%	%	92 %	%

Analytes

Chloromethane	NR	NR	10 U	NR
Bromomethane	NR	NR	10 U	NR
Vinyl Chloride	NR	NR	10 U	NR
Chloroethane	NR	NR	10 U	NR
Methylene Chloride	NR	NR	5 U	NR
Acetone	NR	NR	10 U	NR
Carbon Disulfide	NR	NR	5 U	NR
1,1-Dichloroethene	4 U	5 U	5 U	4 U
1,1-Dichloroethane	NR	NR	5 U	NR
Trans-1,2-Dichloroethene	4 U	5 U	5 U	28
Chloroform	4 U	5 U	5 U	100
1,2-Dichloroethane	4 U	5 U	5 U	4 U
2-Butanone	NR	NR	10 U	NR
1,1,1-Trichloroethane	4 U	5 U	5 U	1400
Carbon Tetrachloride	4 U	5 U	5 U	4 U
Vinyl Acetate	NR	NR	10 U	NR
Bromodichloromethane	NR	NR	5 U	NR
1,2-Dichloropropane	NR	NR	5 U	NR
Trans-1,3-Dichloropropene	NR	NR	5 U	NR
Trichloroethene	4 U	5 U	5 U	650
Dibromochloromethane	NR	NR	5 U	NR
1,1,2-Trichloroethane	4 U	5 U	5 U	4 U
Benzene	NR	NR	5 U	NR
cis-1,3-Dichloropropene	NR	NR	5 U	NR
2-Chloroethylvinylether	NR	NR	NR	NR
Bromoform	NR	NR	5 U	NR
4-Methyl-2-pentanone	NR	NR	10 U	NR
2-Hexanone	NR	NR	10 U	NR
Tetrachloroethene	4 U	5 U	5 U	4 U
1,1,2,2-Tetrachloroethane	NR	NR	5 U	NR
Toluene	NR	NR	5 U	NR
Chlorobenzene	NR	NR	5 U	NR
Ethylbenzene	NR	NR	5 U	NR
Styrene	NR	NR	5 U	NR
Total Xylenes	NR	NR	5 U	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	0287-881-070	0387-881-103	0487-881-076	0187-881-022
Customer ID:	22-86-06-24-87	22-86-08-27-87	22-86-12-18-87	26-86-03-18-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1		1.0	1

Surrogate Recovery

Toluene-d8:	%	%	90 %	%
Bromofluorobenzene:	%	%	68 %	%
1,2-Dichloroethane-d4:	%	%	92 %	%

Analytes

Chloromethane	NR	NR	10 U	NR
Bromomethane	NR	NR	10 U	NR
Vinyl Chloride	NR	NR	10 U	NR
Chloroethane	NR	NR	10 U	NR
Methylene Chloride	NR	NR	10.00	NR
Acetone	NR	NR	4.00 J	NR
Carbon Disulfide	NR	NR	5 U	NR
1,1-Dichloroethene	4 U	5 U	5 U	4 U
1,1-Dichloroethane	NR	NR	5 U	NR
Trans-1,2-Dichloroethene	4 U	5 U	5 U	4 U
Chloroform	36	80	38.00	4 U
1,2-Dichloroethane	8000	5 U	5 U	4 U
2-Butanone	NR	NR	10 U	NR
1,1,1-Trichloroethane	4 U	5 U	5 U	4 U
Carbon Tetrachloride	3000	491	161.00	4 U
Vinyl Acetate	NR	NR	10 U	NR
Bromodichloromethane	NR	NR	5 U	NR
1,2-Dichloropropane	NR	NR	5 U	NR
Trans-1,3-Dichloropropene	NR	NR	5 U	NR
Trichloroethene	6000	490	186.00	8
Dibromochloromethane	NR	NR	5 U	NR
1,1,2-Trichloroethane	4 U	5 U	5 U	4 U
Benzene	NR	NR	5 U	NR
cis-1,3-Dichloropropene	NR	NR	5 U	NR
2-Chloroethylvinylether	NR	NR	NR	NR
Bromoform	NR	NR	5 U	NR
4-Methyl-2-pentanone	NR	NR	10 U	NR
2-Hexanone	NR	NR	10 U	NR
Tetrachloroethene	8	5 U	5 U	4 U
1,1,2,2-Tetrachloroethane	NR	NR	5 U	NR
Toluene	NR	NR	5 U	NR
Chlorobenzene	NR	NR	5 U	NR
Ethylbenzene	NR	NR	5 U	NR
Styrene	NR	NR	5 U	NR
Total Xylenes	NR	NR	5 U	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	0387-881-105	0188-881-029	0187-881-028	0287-881-067
Customer ID:	26-86-08-27-87	28-86-03-16-88	28-86-03-19-87	28-86-06-24-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:		1.0	1	1

Surrogate Recovery

Toluene-d8:	%	106 %	%	%
Bromofluorobenzene:	%	118 %	%	%
1,2-Dichloroethane-d4:	%	100 %	%	%

Analytes

Chloromethane.....	NR	10 U	NR	NR
Bromomethane.....	NR	10 U	NR	NR
Vinyl Chloride.....	NR	10 U	NR	NR
Chloroethane.....	NR	10 U	NR	NR
Methylene Chloride.....	NR	5 U	NR	NR
Acetone.....	NR	10 U	NR	NR
Carbon Disulfide.....	NR	5 U	NR	NR
1,1-Dichloroethene.....	5 U	5 U	4 U	4 U
1,1-Dichloroethane.....	NR	5 U	NR	NR
Trans-1,2-Dichloroethene.....	5 U	5 U	4 U	4 U
Chloroform.....	5 U	5 U	4 U	4 U
1,2-Dichloroethane.....	5 U	5 U	4 U	4 U
2-Butanone.....	NR	10 U	NR	NR
1,1,1-Trichloroethane.....	5 U	5 U	4 U	4 U
Carbon Tetrachloride.....	5 U	5 U	4 U	4 U
Vinyl Acetate.....	NR	10 U	NR	NR
Bromodichloromethane.....	NR	5 U	NR	NR
1,2-Dichloropropane.....	NR	5 U	NR	NR
Trans-1,3-Dichloropropene.....	NR	5 U	NR	NR
Trichloroethene.....	5 U	5 U	4 U	4
Dibromochloromethane.....	NR	5 U	NR	NR
1,1,2-Trichloroethane.....	5 U	5 U	4 U	4 U
Benzene.....	NR	5 U	NR	NR
cis-1,3-Dichloropropene.....	NR	5 U	NR	NR
2-Chloroethylvinylether.....	NR		NR	NR
Bromoform.....	NR	5 U	NR	NR
4-Methyl-2-pentanone.....	NR	10 U	NR	NR
2-Hexanone.....	NR	10 U	NR	NR
Tetrachloroethene.....	5 U	5 U	4 U	4 U
1,1,2,2-Tetrachloroethane.....	NR	5 U	NR	NR
Toluene.....	NR	5 U	NR	NR
Chlorobenzene.....	NR	5 U	NR	NR
Ethylbenzene.....	NR	5 U	NR	NR
Styrene.....	NR	5 U	NR	NR
Total Xylenes.....	NR	5 U	NR	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-108	0188-881-039	0188-881-040	8609-049-046
Customer ID:	28-86-09-08-87	37-87-03-16-88	56-87-03-16-88	G118609860
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:		1.0	1.0	1

Surrogate Recovery

Toluene-d8:	%	104 %	104 %	92 %
Bromofluorobenzene:	%	120 %	118 %	104 %
1,2-Dichloroethane-d4:	%	98 %	96 %	100 %

Analytes

Chloromethane.....	NR	10 U	10 U	10 U
Bromomethane.....	NR	10 U	10 U	10 U
Vinyl Chloride.....	NR	10 U	10 U	10 U
Chloroethane.....	NR	10 U	10 U	10 U
Methylene Chloride.....	NR	5 U	5 U	5 U
Acetone.....	NR	10 U	10 U	1 BJ
Carbon Disulfide.....	NR	5 U	5 U	5 U
1,1-Dichloroethene.....	5 U	5 U	4 J	5 U
1,1-Dichloroethane.....	NR	5 U	6	5 U
Trans-1,2-Dichloroethene.....	5 U	5 U	5 U	5 U
Chloroform.....	5 U	5 U	6	5 U
1,2-Dichloroethane.....	5 U	5 U	5 U	5 U
2-Butanone.....	NR	10 U	10 U	10 U
1,1,1-Trichloroethane.....	5 U	5 U	29	5 U
Carbon Tetrachloride.....	5 U	5 U	5 U	5 U
Vinyl Acetate.....	NR	10 U	10 U	10 U
Bromodichloromethane.....	NR	5 U	5 U	5 U
1,2-Dichloropropane.....	NR	5 U	5 U	5 U
Trans-1,3-Dichloropropene.....	NR	5 U	5 U	5 U
Trichloroethene.....	5 U	5 U	57	5 U
Dibromochloromethane.....	NR	5 U	5 U	5 U
1,1,2-Trichloroethane.....	5 U	5 U	5 U	5 U
Benzene.....	NR	5 U	5 U	5 U
cis-1,3-Dichloropropene.....	NR	5 U	5 U	5 U
2-Chloroethylvinylether.....	NR			10 U
Bromoform.....	NR	5 U	5 U	5 U
4-Methyl-2-pentanone.....	NR	10 U	10 U	10 U
2-Hexanone.....	NR	10 U	10 U	10 U
Tetrachloroethene.....	5 U	5 U	4 J	5 U
1,1,2,2-Tetrachloroethane.....	NR	5 U	5 U	5 U
Toluene.....	NR	5 U	5 U	5 U
Chlorobenzene.....	NR	5 U	5 U	5 U
Ethylbenzene.....	NR	5 U	5 U	5 U
Styrene.....	NR	5 U	5 U	5 U
Total Xylenes.....	NR	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-030-006	8609-030-016	8609-025-006	8609-025-016
Customer ID:	G128609860	G128609862	G158609860	G158609862
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Toluene-d8:	100 %	100 %	96 %	96 %
Bromofluorobenzene:	84 %	82 %	98 %	98 %
1,2-Dichloroethane-d4:	82 %	90 %	88 %	88 %

Analytes

Chloromethane	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U
Methylene Chloride	6	170	3 J	2 J
Acetone	5 BJ	5 BJ	4 BJ	5 BJ
Carbon Disulfide	2 J	1 J	3 J	2 J
1,1-Dichloroethene	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U
2-Butanone	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U
Vinyl Acetate	10 U	10 U	10 U	10 U
Bromodichloromethane	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U
Benzene	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	10 U	10 U	10 U	10 U
Bromoform	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U
Tetrachloroethene	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U
Total Xylenes	5 U	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-065-006	8609-065-016	8609-051-006	8609-049-006
Customer ID:	G178609860	G178609862	G228609860	G268609860
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1 (10)	1

Surrogate Recovery

Toluene-d8:	96 %	94 %	98 %	94 %
Bromofluorobenzene:	100 %	100 %	102 %	102 %
1,2-Dichloroethane-d4:	94 %	94 %	90 %	92 %

Analytes

Chloromethane.....	10 U	10 U	10 U	10 U
Bromomethane.....	10 U	10 U	10 U	10 U
Vinyl Chloride.....	10 U	10 U	10 U	10 U
Chloroethane.....	10 U	10 U	10 U	10 U
Methylene Chloride.....	5 U	5 U	5 U	5 U
Acetone.....	10 U	10 U	4 BJ	4 BJ
Carbon Disulfide.....	5 U	5 U	5 U	5 U
1,1-Dichloroethene.....	5 U	5 U	5 U	5 U
1,1-Dichloroethane.....	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene.....	5 U	5 U	36	5 U
Chloroform.....	5 U	5 U	147	5 U
1,2-Dichloroethane.....	5 U	5 U	5 U	5 U
2-Butanone.....	5 BJ	10 U	4 BJ	10 U
1,1,1-Trichloroethane.....	5 U	5 U	5 U	5 U
Carbon Tetrachloride.....	5 U	5 U	350	5 U
Vinyl Acetate.....	10 U	10 U	10 U	10 U
Bromodichloromethane.....	5 U	5 U	5 U	5 U
1,2-Dichloropropane.....	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
Trichloroethene.....	2 J	3 J	410	6
Dibromochloromethane.....	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane.....	5 U	5 U	5 U	5 U
Benzene.....	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
2-Chloroethylvinylether.....	10 U	10 U	10 U	10 U
Bromoform.....	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone.....	10 U	10 U	10 U	10 U
2-Hexanone.....	10 U	10 U	10 U	10 U
Tetrachloroethene.....	5 U	5 U	2 J	5 U
1,1,2,2-Tetrachloroethane.....	5 U	5 U	5 U	5 U
Toluene.....	5 U	5 U	5 U	5 U
Chlorobenzene.....	5 U	5 U	5 U	5 U
Ethylbenzene.....	5 U	5 U	5 U	5 U
Styrene.....	5 U	5 U	5 U	5 U
Total Xylenes.....	5 U	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	8609-049-015
Customer ID:	G288609860
Matrix:	Water
Units:	UG/L
Dilution Factor:	1

Surrogate Recovery

Toluene-d8:	94	%
Bromofluorobenzene:	100	%
1,2-Dichloroethane-d4:	98	%

Analytes

Chloromethane	10	U
Bromomethane	10	U
Vinyl Chloride	10	U
Chloroethane	10	U
Methylene Chloride	5	U
Acetone	5	BJ
Carbon Disulfide	5	U
1,1-Dichloroethene	5	U
1,1-Dichloroethane	5	U
ans-1,2-Dichloroethene	5	U
loroform	5	U
2-Dichloroethane	5	U
-Butanone	10	U
,1,1-Trichloroethane	5	U
arbon Tetrachloride	5	U
inyl Acetate	10	U
Bromodichloromethane	5	U
1,2-Dichloropropane	5	U
Trans-1,3-Dichloropropene	5	U
Trichloroethene	5	U
Dibromochloromethane	5	U
1,1,2-Trichloroethane	5	U
Benzene	5	U
cis-1,3-Dichloropropene	5	U
2-Chloroethylvinylether	10	U
Bromoform	5	U
4-Methyl-2-pentanone	10	U
2-Hexanone	10	U
Tetrachloroethene	5	U
1,1,2,2-Tetrachloroethane	5	U
Toluene	5	U
Chlorobenzene	5	U
Ethylbenzene	5	U
Styrene	5	U
Total Xylenes	5	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SEMIVOLATILES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8609-040-001	G128609860	
8609-040-002	G128609862	
8609-034-001	G158609860	
8609-034-002	G158609862	
8609-068-002	G178609860	
8609-068-004	G178609862	
8609-057-007	G228609860	
8609-057-008	G228609862	

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	8609-040-001	8609-040-002	8609-034-001	8609-034-002
Customer ID:	G128609860	G128609862	G158609860	G158609862
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

2-Fluorophenol:	4 %	23 %	9 %	17 %
Phenol-d5:	0 %	0 %	9 %	18 %
2,4,6-Br3-Phenol:	77 %	79 %	4 %	5 %
Nitrobenzene-d5:	60 %	54 %	0 %	0 %
2-Fluorobiphenyl:	96 %	60 %	0 %	0 %
p-Terphenyl-d14:	70 %	62 %	2 %	2 %

Analytes

Phenol	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U
Benzyl Alcohol	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U
Hexachlororbutadiene	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-040-001	8609-040-002	8609-034-001	8609-034-002
Customer ID:	G128609860	G128609862	G158609860	G158609862
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Analytes

3-Nitroaniline	50	U	50	U	50	U	50	U
Acenaphthene	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	50	U	50	U	50	U	50	U
4-Nitrophenol	50	U	50	U	50	U	50	U
Dibenzofuran	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U
4-Nitroaniline	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	U	50	U	50	U	50	U
N-Nitrosodiphenylamine	5	JB	4	JB	100	B	4	JB
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U
Pentachlorophenol	50	U	50	U	50	U	50	U
Phenanthrene	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U
di-n-Butyl Phthalate	2	JB	2	JB	4	JB	3	JB
Fluoranthene	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	10	U
Butyl Benzyl Phthalate	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U
Benzo(a)Anthracene	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)Phthalate	16	B	17	B	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U
di-n-Octyl Phthalate	10	U	10	U	10	U	10	U
Benzo(b)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(a)Pyrene	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)Pyrene	10	U	10	U	10	U	10	U
Dibenz(a,h)Anthracene	10	U	10	U	10	U	10	U
Benzo(g,h,i)Perylene	10	U	10	U	10	U	10	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-068-002	8609-068-004	8609-057-007	8609-057-008
Customer ID:	G178609860	G178609862	G228609860	G228609862
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

2-Fluorophenol:	47 %	29 %	19 %	0 %
Phenol-d5:	27 %	16 %	10 %	0 %
2,4,6-Br3-Phenol:	79 %	52 %	68 %	13 %
Nitrobenzene-d5:	68 %	42 %	56 %	0 %
2-Fluorobiphenyl:	68 %	50 %	80 %	0 %
p-Terphenyl-d14:	70 %	52 %	108 %	14 %

Analytes

Phenol	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U
Benzyl Alcohol	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U
Hexachlororbutadiene	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS ALLUVIAL WELLS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

Sample Information

RFW Batch ID:	8609-068-002	8609-068-004	8609-057-007	8609-057-008
Customer ID:	G178609860	G178609862	G228609860	G228609862
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Analytes

3-Nitroaniline	50	U	50	U	50	U	50	U
Acenaphthene	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	50	U	50	U	50	U	50	U
4-Nitrophenol	50	U	50	U	50	U	50	U
Dibenzofuran	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U
4-Nitroaniline	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	U	50	U	50	U	50	U
N-Nitrosodiphenylamine	10	B	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U
Pentachlorophenol	50	U	50	U	50	U	50	U
Phenanthrene	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U
di-n-Butyl Phthalate	10	U	1	J	10	U	10	U
Fluoranthene	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	10	U
Butyl Benzyl Phthalate	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U
Benzo(a)Anthracene	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)Phthalate	10	U	10	U	3	J	2	J
Chrysene	10	U	10	U	10	U	10	U
di-n-Octyl Phthalate	10	U	10	U	10	U	10	U
Benzo(b)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(a)Pyrene	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)Pyrene	10	U	10	U	10	U	10	U
Dibenz(a,h)Anthracene	10	U	10	U	10	U	10	U
Benzo(g,h,i)Perylene	10	U	10	U	10	U	10	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

PESTICIDES/PCBs

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8609-040-001	G128609860	
8609-040-002	G128609862	
8609-034-001	G158609860	
8609-034-002	G158609862	
8609-068-002	G178609860	
8609-068-004	G178609862	
8609-057-007	G228609860	
8609-057-008	G228609862	

SOLAR PONDS ALLUVIAL WELLS
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	8609-040-001	8609-040-002	8609-034-001	8609-034-002
Customer ID:	G128609860	G128609862	G158609860	G158609862
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Di-n-butylchlorendate:	55 %	59 %	48 %	71 %

Analytes

Alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U
Endrin Ketone	0.1 U	0.1 U	0.1 U	0.1 U
Chlordane	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene	1 U	1 U	1 U	1 U
Aroclor-1016	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1221	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1232	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1242	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1248	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1254	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U

SOLAR PONDS ALLUVIAL WELLS
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-068-002	8609-068-004	8609-057-007	8609-057-008
Customer ID:	G178609860	G178609862	G228609860	G228609862
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Di-n-butylchlorendate:	70 %	102 %	86 %	95 %

Analytes

Alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U
Endrin Ketone	0.1 U	0.1 U	0.1 U	0.1 U
Chlordane	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene	1 U	1 U	1 U	1 U
Aroclor-1016	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1221	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1232	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1242	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1248	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1254	1 U	1 U	1 U	1 U
Aroclor-1260	1 U	1 U	1 U	1 U

RADIONUCLIDES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0187-881-076	11-86-05-04-87	
0287-881-035	11-86-06-08-87	
0387-881-042	11-86-08-03-87	
0187-881-065	12-86-04-23-87	
0287-881-037	12-86-06-10-87	
0387-881-048	12-86-08-04-87	
0188-881-023	15-86-03-15-88	
0187-881-062	15-86-04-22-87	
0287-881-040	15-86-06-10-87	
0387-881-050	15-86-08-06-87	
0487-881-046	15-86-12-09-87	
0387-881-051	15-86DUP-08-06-87	
0188-881-025	17-86-03-15-88	
0187-881-064	17-86-04-22-87	
0287-881-042	17-86-06-10-87	
0387-881-052	17-86-08-06-87	
0487-881-047	17-86-12-09-87	
0188-881-026	22-86-03-17-88	
0187-881-034	22-86-03-24-87	
0287-881-070	22-86-06-24-87	
0387-881-088	22-86-08-28-87	
0487-881-064	22-86-12-18-87	
0187-881-022	26-86-03-18-87	
0387-881-090	26-86-08-28-87	
0188-881-029	28-86-03-17-88	
0187-881-028	28-86-03-19-87	
0287-881-067	28-86-06-24-87	
1000-000-248	G128609860	22694-4-2
1000-000-250	G128609862	22694-4-4
1000-000-254	G158609860	22671-4-2
1000-000-256	G158609862	22671-4-4
1000-000-258	G178609860	22800-5-2
1000-000-260	G178609862	22800-5-4
1000-000-267	G228609860	22763-5-2
1000-000-269	G228609862	22763-5-4

SOLAR PONDS ALLUVIAL WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	0187-881-076	0287-881-035	0387-881-042
Customer ID:	11-86-05-04-87	11-86-06-08-87	11-86-08-03-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha.....	11 +/- 16	pc/l	16 +/- 3	pci/l	55 +/- 37	pci/l
Gross Beta.....	16 +/- 6	pc/l	46 +/- 17	pci/l	50 +/- 45	pci/l
Uranium 233, 234.....	5.8 +/- 2.0	pc/l	6.0 +/- 1.7	pci/l	-0.2 +/- 1.5	pci/l
Uranium 235.....	0.0 +/- .50	pc/l	0.19 +/- 0.52	pci/l	0.0 +/- 0.5	pci/l
Uranium 238.....	5.2 +/- 1.8	pc/l	6.8 +/- 1.8	pci/l	-0.3 +/- 1.2	pci/l
Strontium 89, 90.....	<0.6 +/-	pc/l	<1.0 +/-	pci/l	<1.0 +/-	pci/l
Plutonium 239, 240.....	NR		0.0 +/- 0.7	pci/l	-0.3 +/- 1.6	pci/l
Americium 241.....	0.0 +/- 2.7	pc/l	0.6 +/- 6.4	pci/l	-.04 +/- .81	pci/l
Cesium 137.....	NR		NR			
Tritium.....	460 +/-	pc/l	160 +/-	pci/l	<490 +/-	pci/l

Sample Information

RFW Batch ID:	0187-881-065	0287-881-037	0387-881-048
Customer ID:	12-86-04-23-87	12-86-06-10-87	12-86-08-04-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha.....	75 +/- 19	pc/l	91 +/- 20	pci/l	125 +/- 62	pci/l
Gross Beta.....	18 +/- 30	pc/l	31 +/- 14	pci/l	87 +/- 51	pci/l
Uranium 233, 234.....	25 +/- 5	pc/l	11 +/- 3	pci/l	17.4 +/- 3.6	pci/l
Uranium 235.....	3.4 +/- 1.8	pc/l	0.5 +/- 0.69	pci/l	2.6 +/- 1.2	pci/l
Uranium 238.....	20 +/- 5	pc/l	13 +/- 3	pci/l	15.1 +/- 3.3	pci/l
Strontium 89, 90.....	4.98 +/-	pc/l	2.2 +/-	pci/l	2.8 +/-	pci/l
Plutonium 239, 240.....	0.0 +/- .78	pc/l	0.5 +/- 1.1	pci/l	0.2 +/- 1.5	pci/l
Americium 241.....	0.0 +/- 1.8	pc/l	0.4 +/- 1.5	pci/l	-0.4 +/- 5.0	pci/l
Cesium 137.....	NR		NR			
Tritium.....	130 +/-	pc/l	120 +/-	pci/l	<540 +/-	pci/l

SOLAR PONDS ALLUVIAL WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-023			0187-881-062			0287-881-040	
Customer ID:	15-86-03-15-88			15-86-04-22-87			15-86-06-10-87	
Matrix:	Water			Water			Water	
Radio Chemistry								
Gross Alpha	26 +/- 6	pci/l		147 +/- 8	pc/l		19 +/- 19	pci/l
Gross Beta	4 +/- 11	pci/l		198 +/- 5	pc/l		7 +/- 5	pci/l
Uranium 233, 234	18 +/- 1	pci/l		24 +/- 4	pc/l		1.7 +/- 0.9	pci/l
Uranium 235	0.69 +/- 0.14	pci/l		2.1 +/- 1.0	pc/l		0.0 +/- 0.32	pci/l
Uranium 238	14 +/- 1	pci/l		19 +/- 3	pc/l		0.43 +/- 0.54	pci/l
Strontium 89, 90				1.98 +/-	pc/l		<1.0 +/-	pci/l
Plutonium 239, 240	0.00 +/- 0.78	pci/l		0.0 +/- .55	pc/l		0.0 +/- 0.69	pci/l
Americium 241	0.00 +/- 0.50	pci/l		0.0 +/- 2.1	pc/l		0.0 +/- 1.3	pci/l
Cesium 137				NR			NR	
Tritium	240 +/- 100	pci/l		<110 +/-	pc/l		<110 +/-	pci/l

Sample Information

RFW Batch ID:	0387-881-050			0487-881-046			0387-881-051	
Customer ID:	15-86-08-06-87			15-86-12-09-87			15-86DUP-08-06-87	
Matrix:	Water			Water			Water	
Radio Chemistry								
Gross Alpha	51 +/- 54	pci/l		32 +/- 8	pci/l		68 +/- 38	pci/l
Gross Beta	73 +/- 51	pci/l		29 +/- 12	pci/l		82 +/- 52	pci/l
Uranium 233, 234	16.1 +/- 2.4	pci/l		17 +/- 2	pci/l		17.0 +/- 2.8	pci/l
Uranium 235	0.9 +/- 0.5	pci/l		.99 +/- .28	pci/l		0.7 +/- 0.6	pci/l
Uranium 238	11.0 +/- 1.9	pci/l		13 +/- 2	pci/l		14.1 +/- 2.4	pci/l
Strontium 89, 90	1.4 +/-	pci/l		1.8 +/-	pci/l		2.5 +/-	pci/l
Plutonium 239, 240	-.32 +/- .46	pci/l		0.00 +/- .24	pci/l		-.07 +/- .85	pci/l
Americium 241	.05 +/- .74	pci/l		0.00 +/- .18	pci/l		NR	
Cesium 137								
Tritium	<492 +/-	pci/l		<210 +/-	pci/l		<492 +/-	pci/l

SOLAR PONDS ALLUVIAL WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-025	0187-881-064	0287-881-042
Customer ID:	17-86-03-15-88	17-86-04-22-87	17-86-06-10-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	28 +/- 12	pci/l	112 +/- 19	pc/l	552 +/- 142	pci/l
Gross Beta	25 +/- 13	pci/l	136 +/- 44	pc/l	196 +/- 21	pci/l
Uranium 233, 234	28 +/- 2	pci/l	26 +/- 5	pc/l	3.7 +/- 1.2	pci/l
Uranium 235	1.2 +/- 0.2	pci/l	1.3 +/- 1.0	pc/l	0.0 +/- 0.3	pci/l
Uranium 238	15 +/- 1	pci/l	25 +/- 4	pc/l	2.7 +/- 0.8	pci/l
Strontium 89, 90			1.55 +/-	pc/l	3.3 +/-	pci/l
Plutonium 239, 240	0.00 +/- 0.40	pci/l	0.0 +/- .97	pc/l	0.6 +/- 1.5	pci/l
Americium 241	0.00 +/- 0.42	pci/l	0.0 +/- 1.5	pc/l	0.0 +/- 1.2	pci/l
Cesium 137			NR		NR	
Tritium	700 +/- 100	pci/l	380 +/-	pc/l	<110 +/-	pci/l

Sample Information

RFW Batch ID:	0387-881-052	0487-881-047	0188-881-026
Customer ID:	17-86-08-06-87	17-86-12-09-87	22-86-03-17-88
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	663 +/- 606	pci/l	52 +/- 12	pci/l	8 +/- 6	pci/l
Gross Beta	347 +/- 87	pci/l	41 +/- 13	pci/l	8 +/- 11	pci/l
Uranium 233, 234	24.8 +/- 4.4	pci/l	23 +/- 3	pci/l	6.3 +/- 0.6	pci/l
Uranium 235	0.9 +/- 0.7	pci/l	1.3 +/- 0.4	pci/l	0.21 +/- .010	pci/l
Uranium 238	20.9 +/- 4.0	pci/l	21 +/- 3	pci/l	3.0 +/- 0.4	pci/l
Strontium 89, 90	2.6 +/-	pci/l	1.4 +/-	pci/l		
Plutonium 239, 240	-.03 +/- .17	pci/l	0.00 +/- .37	pci/l	0.00 +/- 0.24	pci/l
Americium 241	-.04 +/- .67	pci/l	0.00 +/- .41	pci/l	0.00 +/- 0.11	pci/l
Cesium 137						
Tritium	<540 +/-	pci/l	730 +/- 100	pci/l	340 +/- 100	pci/l

SOLAR PONDS ALLUVIAL WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	0187-881-034	0287-881-070	0387-881-088
Customer ID:	22-86-03-24-87	22-86-06-24-87	22-86-08-28-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	42 +/- 31	pci/l	109 +/- 19	pci/l	40 +/- 24	pci/l
Gross Beta	14 +/- 0	pci/l	109 +/- 14	pci/l	38 +/- 40	pci/l
Uranium 233, 234	9.2 +/- 2.4	pci/l	9.1 +/- 1.8	pci/l	5.8 +/- 1.9	pci/l
Uranium 235	0.0 +/- .77	pci/l	0.04 +/- 0.44	pci/l	0.6 +/- 0.5	pci/l
Uranium 238	4.3 +/- 1.9	pci/l	6.0 +/- 1.4	pci/l	7.5 +/- 2.0	pci/l
Strontium 89, 90	1.85 +/-	pci/l	<1.0 +/-	pci/l	5.7 +/-	pci/l
Plutonium 239, 240	4.6 +/- 2.3	pci/l	0.6 +/- 1.0	pci/l	-.32 +/- .85	pci/l
Americium 241	0.0 +/- 1.8	pci/l	0.0 +/- 1.5	pci/l	-.04 +/- .18	pci/l
Cesium 137	NR		NR			
Tritium	230 +/-	pci/l	<110 +/-	pci/l	723 +/- 318	pci/l

Sample Information

RFW Batch ID:	0487-881-064	0187-881-022	0387-881-090
Customer ID:	22-86-12-18-87	26-86-03-18-87	26-86-08-28-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	13 +/- 8	pci/l	60 +/- 23	pci/l	72 +/- 34	pci/l
Gross Beta	22 +/- 11	pci/l	14 +/- 10	pci/l	47 +/- 44	pci/l
Uranium 233, 234	5.6 +/- 0.5	pci/l	32 +/- 6	pci/l	34.2 +/- 4.8	pci/l
Uranium 235	.12 +/- .06	pci/l	4.5 +/- 1.7	pci/l	1.3 +/- 0.7	pci/l
Uranium 238	2.2 +/- 0.3	pci/l	3.0 +/- 5.1	pci/l	31.2 +/- 1.0	pci/l
Strontium 89, 90	<1.0 +/-	pci/l	<0.6 +/-	pci/l	<1.0 +/-	pci/l
Plutonium 239, 240	0.00 +/- .16	pci/l	0.18 +/- 0.95	pci/l	.07 +/- .58	pci/l
Americium 241	.16 +/- .18	pci/l	NR		-.04 +/- .60	pci/l
Cesium 137			NR			
Tritium	260 +/- 80	pci/l	1300 +/-	pci/l	1352 +/- 343	pci/l

SOLAR PONDS ALLUVIAL WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-029	0187-881-028	0287-881-067
Customer ID:	28-86-03-17-88	28-86-03-19-87	28-86-06-24-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha.....	860 +/- 150 pci/l	797 +/- 69 pci/l	2000 +/- 700 pci/l
Gross Beta.....	890 +/- 60 pci/l	368 +/- 72 pci/l	745 +/- 142 pci/l
Uranium 233, 234.....	320 +/- 20 pci/l	211 +/- 25 pci/l	1000 +/- 300 pci/l
Uranium 235.....	12 +/- 1 pci/l	7.7 +/- 2.6 pci/l	47 +/- 15 pci/l
Uranium 238.....	220 +/- 20 pci/l	142 +/- 20 pci/l	750 +/- 200 pci/l
Strontium 89, 90.....		6.0 +/- pci/l	2.9 +/- 0.6 pci/l
Plutonium 239, 240.....	0.00 +/- 0.15 pci/l	0.0 +/- 1.4 pci/l	0.15 +/- 0.72 pci/l
Americium 241.....	0.00 +/- 0.49 pci/l	0.0 +/- 5.4 pci/l	0.0 +/- 1.2 pci/l
Cesium 137.....		NR	NR
Tritium.....	9000 +/- 300 pci/l	6300 +/- pci/l	12000 +/- pci/l

Sample Information

RFW Batch ID:	1000-000-248	1000-000-250	1000-000-254
Customer ID:	G128609860	G128609862	G158609860
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha.....	82 +/- 28 pci/l	53 +/- 30 pci/l	200 +/- 80 pci/l
Gross Beta.....	86 +/- 12 pci/l	120 +/- 20 pci/l	220 +/- 50 pci/l
Uranium 233, 234.....	8.8 +/- 0.8 pci/l	11 +/- 1 pci/l	24 +/- 2 pci/l
Uranium 235.....	NR	NR	NR
Uranium 238.....	7.0 +/- 0.7 pci/l	8.7 +/- 0.9 pci/l	24 +/- 2 pci/l
Strontium 89, 90.....	NR	NR	NR
Plutonium 239, 240.....	-0.05 +/- 0.06 pci/l	-0.03 +/- 0.08 pci/l	-0.03 +/- 0.04 pci/l
Americium 241.....	0.00 +/- 0.03 pci/l	-0.02 +/- 0.05 pci/l	0.08 +/- 0.21 pci/l
Cesium 137.....	NR	NR	NR
Tritium.....	0.24 +/- 0.22 pci/ml	0.31 +/- 0.22 pci/ml	0.28 +/- 0.22 pci/ml

SOLAR PONDS ALLUVIAL WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	1000-000-256	1000-000-258	1000-000-260
Customer ID:	G158609862	G178609860	G178609862
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha.....	170 +/- 20	pci/l	160 +/- 80	pci/l	63 +/- 49	pci/l
Gross Beta.....	190 +/- 60	pci/l	77 +/- 40	pci/l	50 +/- 37	pci/l
Uranium 233, 234.....	16 +/- 1	pci/l	33 +/- 1	pci/l	31 +/- 1	pci/l
Uranium 235.....	NR		NR		NR	
Uranium 238.....	13 +/- 1	pci/l	27 +/- 1	pci/l	25 +/- 1	pci/l
Strontium 89, 90.....	NR		NR		NR	
Plutonium 239, 240.....	-0.01 +/- 0.08	pci/l	0.21 +/- 0.26	pci/l	0.11 +/- 0.12	pci/l
Americium 241.....	0.00 +/- 0.13	pci/l	-0.03 +/- 0.09	pci/l	0.02 +/- 0.11	pci/l
Cesium 137.....	NR		NR		NR	
Tritium.....	0.17 +/- 0.22	pci/ml	0.69 +/- 0.24	pci/ml	0.77 +/- 0.24	pci/ml

Sample Information

RFW Batch ID:	1000-000-267	1000-000-269
Customer ID:	G228609860	G228609862
Matrix:	Water	Water

Radio Chemistry

Gross Alpha.....	300 +/- 160	pci/l	130 +/- 40	pci/l
Gross Beta.....	240 +/- 60	pci/l	74 +/- 18	pci/l
Uranium 233, 234.....	24 +/- 3	pci/l	9.6 +/- 1.1	pci/l
Uranium 235.....	NR		NR	
Uranium 238.....	21 +/- 3	pci/l	6.7 +/- 0.9	pci/l
Strontium 89, 90.....	NR		NR	
Plutonium 239, 240.....	0.95 +/- 0.39	pci/l	0.97 +/- 0.20	pci/l
Americium 241.....	0.12 +/- 0.14	pci/l	0.08 +/- 0.09	pci/l
Cesium 137.....	NR		NR	
Tritium.....	0.58 +/- 0.23	pci/ml	0.66 +/- 0.24	pci/ml

INORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0187-881-076	11-86-05-04-87	
0287-881-039	11-86-06-08-87	
0387-881-069	11-86-07-31-87	
0187-881-065	12-86-04-23-87	
0287-881-064	12-86-06-10-87	
0387-881-072	12-86-08-04-87	
0188-881-023	15-86-03-15-88	
0187-881-062	15-86-04-22-87	
0287-881-043	15-86-06-10-87	
0387-881-074	15-86-08-06-87	
0487-881-038	15-86-12-08-87	
0387-881-075	15-86DUP-08-06-87	
0188-881-025	17-86-03-15-88	
0187-881-064	17-86-04-22-87	
0287-881-045	17-86-06-10-87	
0387-881-076	17-86-08-06-87	
0487-881-039	17-86-12-08-87	
0188-881-026	22-86-03-17-88	
0187-881-034	22-86-03-24-87	
0287-881-070	22-86-06-24-87	
0387-881-107	22-86-08-28-87	
0487-881-063	22-86-12-18-87	
0187-881-024	26-86-03-18-87	
0387-881-109	26-86-08-28-87	
0188-881-029	28-86-03-17-88	
0187-881-028	28-86-03-19-87	
0287-881-073	28-86-06-24-87	
0387-881-125	28-86-09-09-87	
8609-030-008	G128609860	
8609-030-018	G128609862	
8609-025-008	G158609860	
8609-025-018	G158609862	
8609-065-009	G178609860	
8609-065-018	G178609862	
8609-051-008	G228609860	
8609-051-023	G228609862	
8609-049-008	G268609860	

SOLAR PONDS ALLUVIAL WELLS
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	0187-881-076	0287-881-039	0387-881-069
Customer ID:	11-86-05-04-87	11-86-06-08-87	11-86-07-31-87
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3				NR				
HCO3- as CaCO3	297		mg/l	274		mg/l	291	mg/l
Chloride	36.9		mg/l	36.9		mg/l	37.2	mg/l
Sulfate	215		mg/l	162		mg/l	170	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	1.21		mg/l	0.89		mg/l	1.30	mg/l
Sulfide								
Phosphate								
Cyanide, Total	1.0	U	mg/l	1.0	U	mg/l	1	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	592		mg/l	576		mg/l	580	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0187-881-065	0287-881-064	0387-881-072
Customer ID:	12-86-04-23-87	12-86-06-10-87	12-86-08-04-87
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3				NR				
HCO3- as CaCO3	417		mg/l	398		mg/l	496	mg/l
Chloride	86.0		mg/l	63.6		mg/l	100	mg/l
Sulfate	490		mg/l	337		mg/l	630	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.50		mg/l	0.20	U	mg/l	0.20	U mg/l
Sulfide								
Phosphate								
Cyanide, Total	1.0	U	mg/l	1.0	U	mg/l	1	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	1137		mg/l	1046		mg/l	1430	mg/l
Total Suspended Solids								
% Solids								

SOLAR PONDS ALLUVIAL WELLS
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	0188-881-023			0187-881-062			0287-881-043	
Customer ID:	15-86-03-15-88			15-86-04-22-87			15-86-06-10-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3							NR	
HCO3- as CaCO3	241		mg/l	409		mg/l	371	mg/l
Chloride	76.3		mg/l	81.0		mg/l	80.2	mg/l
Sulfate	125		mg/l	204		mg/l	175	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	44.0		mg/l	28.0		mg/l	120	mg/l
Sulfide								
Phosphate								
Cyanide, Total				1.0	U	mg/l	1.0	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	1022		mg/l	1125		mg/l	1153	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0387-881-074			0487-881-038			0387-881-075	
Customer ID:	15-86-08-06-87			15-86-12-08-87			15-86DUP-08-06-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3				NR				
HCO3- as CaCO3	398		mg/l	424		mg/l	398	mg/l
Chloride	87.9		mg/l	74.9		mg/l	83.3	mg/l
Sulfate	195		mg/l	142		mg/l	202	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	54		mg/l	34.5		mg/l	51	mg/l
Sulfide								
Phosphate								
Cyanide, Total	1	U	mg/l	NR			1	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	1117		mg/l	996		mg/l	1148	mg/l
Total Suspended Solids								
% Solids								

SOLAR PONDS ALLUVIAL WELLS
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-025	0187-881-064	0287-881-045
Customer ID:	17-86-03-15-88	17-86-04-22-87	17-86-06-10-87
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3					NR		
HCO3- as CaCO3	146	mg/l	332	mg/l	333	mg/l
Chloride	130	mg/l	97.0	mg/l	105	mg/l
Sulfate	240	mg/l	208	mg/l	270	mg/l
pH						
Fluoride						
Nitrate-Nitrite-Nitrogen	540	mg/l	145	mg/l	305	mg/l
Sulfide						
Phosphate						
Cyanide, Total			1.0 U	mg/l	1.0 U	mg/l
Hexavalent Chromium (Cr+6)						
Total Dissolved Solids	4392	mg/l	1324	mg/l	2796	mg/l
Total Suspended Solids						
% Solids						

Sample Information

RFW Batch ID:	0387-881-076	0487-881-039	0188-881-026
Customer ID:	17-86-08-06-87	17-86-12-08-87	22-86-03-17-88
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3			NR			
HCO3- as CaCO3	296	mg/l	274	mg/l	170	mg/l
Chloride	11.9	mg/l	123	mg/l	43.6	mg/l
Sulfate	290	mg/l	282	mg/l	42.0	mg/l
pH						
Fluoride						
Nitrate-Nitrite-Nitrogen	465	mg/l	516	mg/l	2.74	mg/l
Sulfide						
Phosphate						
Cyanide, Total	1 U	mg/l	NR			
Hexavalent Chromium (Cr+6)						
Total Dissolved Solids	3929	mg/l	1906	mg/l	477	mg/l
Total Suspended Solids						
% Solids						

SOLAR PONDS ALLUVIAL WELLS
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	0187-881-034	0287-881-070	0387-881-107
Customer ID:	22-86-03-24-87	22-86-06-24-87	22-86-08-28-87
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3				NR				
HCO3- as CaCO3	231		mg/l	317		mg/l	335	mg/l
Chloride	47.0		mg/l	48.1		mg/l	40.4	mg/l
Sulfate	81.0		mg/l	60.5		mg/l	59.0	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	6.80		mg/l	2.30		mg/l	1.4	mg/l
Sulfide								
Phosphate								
Cyanide, Total	1.0	U	mg/l	1.0	U	mg/l	1	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	577		mg/l	477		mg/l	533	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0487-881-063	0187-881-024	0387-881-109
Customer ID:	22-86-12-18-87	26-86-03-18-87	26-86-08-28-87
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3	NR							
HCO3- as CaCO3	308		mg/l	682		mg/l	650	mg/l
Chloride	28.5		mg/l	67.7		mg/l	59.7	mg/l
Sulfate	70.0		mg/l	390		mg/l	375	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	1.32		mg/l	88.0		mg/l	79	mg/l
Sulfide								
Phosphate								
Cyanide, Total	NR			1.0	U	mg/l	1	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	478		mg/l	1814		mg/l	1760	mg/l
Total Suspended Solids								
% Solids								

SOLAR PONDS ALLUVIAL WELLS
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-029	0187-881-028	0287-881-073
Customer ID:	28-86-03-17-88	28-86-03-19-87	28-86-06-24-87
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3						NR		
HCO3- as CaCO3	314		mg/l	381		mg/l	636	mg/l
Chloride	336		mg/l	259		mg/l	40.1	mg/l
Sulfate	335		mg/l	290		mg/l	390	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	1670		mg/l	1120		mg/l	2200	mg/l
Sulfide								
Phosphate								
Cyanide, Total				1.0	U	mg/l	1.0	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	12052		mg/l	9033		mg/l	16776	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0387-881-125	8609-030-008	8609-030-018
Customer ID:	28-86-09-09-87	G128609860	G128609862
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3								
HCO3- as CaCO3								
Chloride				47		mg/l	47	mg/l
Sulfate				240		mg/l	290	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen				9.6		mg/l	9.0	mg/l
Sulfide								
Phosphate								
Cyanide, Total	1	U	mg/l	0.005	U	mg/l	0.005	U mg/l
Hexavalent Chromium (Cr+6)				10	U	mg/l	10	U mg/l
Total Dissolved Solids				720		mg/l	2500	mg/l
Total Suspended Solids								
% Solids								

SOLAR PONDS ALLUVIAL WELLS
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	8609-025-008			8609-025-018			8609-065-009		
Customer ID:	G158609860			G158609862			G178609860		
Matrix:	Water			Water			Water		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride	63		mg/l	65		mg/l	140		mg/l
Sulfate	170		mg/l	180		mg/l	330		mg/l
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	243		mg/l	262		mg/l	2320		mg/l
Sulfide									
Phosphate									
Cyanide, Total	0.040		mg/l	0.005	U	mg/l	0.005	U	mg/l
Hexavalent Chromium (Cr+6)	10	U	mg/l	10	U	mg/l	10	U	mg/l
Total Dissolved Solids	990		mg/l	1000		mg/l	3900		mg/l
Total Suspended Solids									
% Solids									

Sample Information

RFW Batch ID:	8609-065-018			8609-051-008			8609-051-023		
Customer ID:	G178609862			G228609860			G228609862		
Matrix:	Water			Water			Water		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride	140		mg/l	37		mg/l	36		mg/l
Sulfate	290		mg/l	75		mg/l	69		mg/l
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	2400		mg/l	22.6		mg/l	23.2		mg/l
Sulfide									
Phosphate									
Cyanide, Total	0.005	U	mg/l	0.005	U	mg/l	0.005	U	mg/l
Hexavalent Chromium (Cr+6)	10	U	mg/l	10	U	mg/l	10	U	mg/l
Total Dissolved Solids	3900		mg/l	750		mg/l	490		mg/l
Total Suspended Solids									
% Solids									

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Sample Information

RFW Batch ID: 8609-049-008
Customer ID: G268609860
Matrix: Water

Inorganics

CO3= as CaCO3			
HCO3- as CaCO3			
Chloride	77		mg/l
Sulfate	500		mg/l
pH			
Fluoride			
Nitrate-Nitrite-Nitrogen	300		mg/l
Sulfide			
Phosphate			
Cyanide, Total			
Hexavalent Chromium (Cr+6)	10	U	mg/l
Total Dissolved Solids	1800		mg/l
Total Suspended Solids			
% Solids			

METALS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0187-881-072	11-86-05-04-87	
0287-881-035	11-86-06-09-87	
0387-881-070	11-86-07-31-87	
0187-881-063	12-86-04-23-87	
0287-881-037	12-86-06-10-87	
0387-881-072	12-86-08-04-87	
0387-881-073	12-86D-08-04-87	
0188-881-023	15-86-03-15-88	
0187-881-060	15-86-04-22-87	
0287-881-040	15-86-06-11-87	
0387-881-075	15-86-08-06-87	
0387-881-076	15-86D-08-06-87	
0188-881-025	17-86-03-15-88	
0187-881-061	17-86-04-22-87	
0287-881-042	17-86-06-11-87	
0387-881-077	17-86-08-06-87	
0487-881-044	17-86-12-09-87	
0188-881-026	22-86-03-17-88	
0187-881-033	22-86-03-24-87	
0287-881-070	22-86-06-25-87	
0387-881-112	22-86-08-28-87	
0487-881-067	22-86-12-18-87	
0387-881-113	22-86D-08-28-87	
0187-881-022	26-86-03-18-87	
0387-881-115	26-86-08-28-87	
0188-881-029	28-86-03-17-88	
0187-881-028	28-86-03-19-87	
0287-881-067	28-86-06-25-87	
0487-881-032	FLDBLK-10-23-87	
8609-049-047	G118609860	
8609-030-007	G128609860	
8609-030-017	G128609862	
8609-025-007	G158609860	
8609-025-017	G158609862	
8609-065-007	G178609860	
8609-065-017	G178609862	
8609-051-007	G228609860	
8609-051-022	G228609862	
8609-049-007	G268609860	

SOLAR PONDS ALLUVIAL WELLS
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RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0187-881-072	0287-881-035	0387-881-070	0187-881-063
Customer ID:	11-86-05-04-87	11-86-06-09-87	11-86-07-31-87	12-86-04-23-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver	(Ag),	total.....	0.0076	U	0.0076	U	0.0076	U	0.0076	U
Aluminum	(Al),	total.....	0.0290	U	0.0290	U	0.0312		0.0290	U
Arsenic	(As),	total.....	0.01	U	0.01	U	0.005	U	0.01	U
Barium	(Ba),	total.....	0.0386		0.0845		0.1507		0.0735	
Beryllium	(Be),	total.....	0.005	U	0.005	U	0.005	U	0.005	U
Calcium	(Ca),	total.....	104.8707		77.6418		108.2151		155.3941	
Cadmium	(Cd),	total.....	0.005	U	0.005	U	0.0008	J	0.005	U
Cobalt	(Co),	total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium	(Cr),	total.....	0.0100	U	0.0100	U	0.0100	U	0.0100	U
Cesium	(Cs),	total.....	0.2	U	0.2	U	0.02	U	0.2	U
Copper	(Cu),	total.....	0.0083		0.0063	U	0.0063	U	0.0063	U
Iron	(Fe),	total.....	0.0069	U	0.0306		0.0069	U	0.0069	U
Mercury	(Hg),	total.....	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Potassium	(K),	total.....	5.0	U	5.0	U	1.9		5.0	U
Lithium	(Li),	total.....								
Magnesium	(Mg),	total.....	31.4300		25.3456		31.8055		52.5089	
Manganese	(Mn),	total.....	0.0156		0.0087		0.0207		0.0278	
Molybdenum	(Mo),	total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Sodium	(Na),	total.....	60.5109		46.5674		59.8513		162.4168	
Nickel	(Ni),	total.....	0.0935		0.1667		0.1107		0.0370	U
Lead	(Pb),	total.....	0.005	U	0.005	U	0.005	U	0.005	U
Antimony	(Sb),	total.....	0.0600	U	0.06	U	0.02	U	0.0600	U
Selenium	(Se),	total.....	0.011		0.007		0.005		0.0050	U
Strontium	(Sr),	total.....	0.7436		0.5977		0.7631		1.2073	
Thallium	(Tl),	total.....	0.01	U	0.01	U	0.01	U	0.01	U
Vanadium	(V),	total.....	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc	(Zn),	total.....	0.02	U	0.0200	U	0.0228		0.02	U

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RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0287-881-037	0387-881-072	0387-881-073	0188-881-023
Customer ID:	12-86-06-10-87	12-86-08-04-87	12-86D-08-04-87	15-86-03-15-88
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.0076 U	0.0076 U	0.0076 U	0.0076 U
Aluminum (Al), total.....	0.0290 U	0.0290 U	0.0290 U	0.0742
Arsenic (As), total.....	0.01 U	0.005 U		0.005 U
Barium (Ba), total.....	0.0595	0.1051	0.1080	0.4361
Beryllium (Be), total.....	0.005 U	0.005 U		0.005 U
Calcium (Ca), total.....	145.4799	204.7637	204.7987	301.1328
Cadmium (Cd), total.....	0.005 U	0.0004 J		0.001
Cobalt (Co), total.....	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Chromium (Cr), total.....	0.0100 U	0.0151	0.0106	0.0218
Cesium (Cs), total.....	0.2 U	0.02 U		0.02 U
Copper (Cu), total.....	0.0063 U	0.0063 U	0.0075	0.0121
Iron (Fe), total.....	0.0069 U	0.0069 U	0.0069 U	0.3684
Mercury (Hg), total.....	0.0002 U	0.0003		0.0002 U
Potassium (K), total.....	5.0 U	2.3		2.1
Lithium (Li), total.....				0.1 U
Magnesium (Mg), total.....	47.7133	63.2990	64.8564	72.3529
Manganese (Mn), total.....	0.0503	0.0570	0.0580	0.0119
Molybdenum(Mo), total.....	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Sodium (Na), total.....	157.5860	223.6566	223.7104	187.2783
Nickel (Ni), total.....	0.0370 U	0.0370 U	0.0370 U	0.0458
Lead (Pb), total.....	0.005 U	0.005 U		0.005 U
Antimony (Sb), total.....	0.06 U	0.02		0.016 J
Selenium (Se), total.....	0.005 U	0.003 J		0.039
Strontium (Sr), total.....	1.0151	1.4462	1.4832	2.3490
Thallium (Tl), total.....	0.01 U	0.01 U		0.01 U
Vanadium (V), total.....	0.0240 U	0.0240 U	0.0240 U	0.0240 U
Zinc (Zn), total.....	0.0230 U	0.0245	0.0259	0.1261

SOLAR PONDS ALLUVIAL WELLS
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RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0187-881-060	0287-881-040	0387-881-075	0387-881-076
Customer ID:	15-86-04-22-87	15-86-06-11-87	15-86-08-06-87	15-86D-08-06-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver	(Ag), total.....	0.0076	U	0.0076	U	0.0076	U	0.0076	U
Aluminum	(Al), total.....	0.0356		0.0290	U	0.0290	U	0.0290	U
Arsenic	(As), total.....	0.01	U	0.01	U	0.005	U	0.005	U
Barium	(Ba), total.....	0.2264		0.2386		0.2849		0.2783	
Beryllium	(Be), total.....	0.005	U	0.005	U	0.005	U	0.005	U
Calcium	(Ca), total.....	193.8921		202.2351		193.4264		198.6274	
Cadmium	(Cd), total.....	0.005	U	0.005	U	0.0005	J	0.001	
Cobalt	(Co), total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium	(Cr), total.....	0.0100	U	0.0100	U	0.0100	U	0.0100	U
Cesium	(Cs), total.....	0.2	U	0.2	U	0.02	U	0.02	U
Copper	(Cu), total.....	0.0063	U	0.0063	U	0.0083		0.0080	
Iron	(Fe), total.....	0.0069	U	0.0069	U	0.0069	U	0.0069	U
Mercury	(Hg), total.....	0.0002	U	0.0002	U	0.0002	U	0.0003	
Potassium	(K), total.....	5.0	U	5.0	U	2.6		2.5	
Lithium	(Li), total.....								
Magnesium	(Mg), total.....	46.7915		43.7933		43.1885		44.5754	
Manganese	(Mn), total.....	0.0168		0.0132		0.0089		0.0076	
Molybdenum	(Mo), total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Sodium	(Na), total.....	126.0598		117.9158		122.0968		125.1801	
Nickel	(Ni), total.....	0.0370	U	0.0370	U	0.0370	U	0.0370	U
Lead	(Pb), total.....	0.005	U	0.005	U	0.005	U	0.005	U
Antimony	(Sb), total.....	0.0600	U	0.06	U	0.004	J	0.024	
Selenium	(Se), total.....	0.0050	U	0.0025		0.022		0.023	
Strontium	(Sr), total.....	1.4422		1.4210		1.3845		1.4257	
Thallium	(Tl), total.....	0.01	U	0.01	U	0.01	U	0.01	U
Vanadium	(V), total.....	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc	(Zn), total.....	0.02	U	0.0580		0.0396		0.0261	

SOLAR PONDS ALLUVIAL WELLS
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RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-025		0187-881-061		0287-881-042		0387-881-077	
Customer ID:	17-86-03-15-88		17-86-04-22-87		17-86-06-11-87		17-86-08-06-87	
Matrix:	Water		Water		Water		Water	
Units:	MG/L		MG/L		MG/L		MG/L	
Metals								
Silver (Ag), total.....	0.0076	U	0.0076	U	0.0076	U	0.0076	U
Aluminum (Al), total.....	0.0602		0.0290	U	1.1794		0.0310	
Arsenic (As), total.....	0.003	J	0.01	U	0.01	U	0.005	U
Barium (Ba), total.....	0.3887		0.1933		0.3333		0.2893	
Beryllium (Be), total.....	0.005	U	0.005	U	0.007		0.005	U
Calcium (Ca), total.....	826.6744		391.9108		430.7377		498.0435	
Cadmium (Cd), total.....	0.001	U	0.005	U	0.005	U	0.001	U
Cobalt (Co), total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium (Cr), total.....	0.0289		0.0100	U	0.0100	U	0.0100	U
Cesium (Cs), total.....	0.02	U	0.2	U	0.2	U	0.02	U
Copper (Cu), total.....	0.0063	U	0.0063	U	0.0076		0.0063	U
Iron (Fe), total.....	0.1805		0.0069	U	0.1339		0.0069	U
Mercury (Hg), total.....	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Potassium (K), total.....	4.3		5.0	U	5.0	U	5.1	
Lithium (Li), total.....	0.27							
Magnesium (Mg), total.....	253.8005		129.1389		131.4248		162.2504	
Manganese (Mn), total.....	0.0051	U	0.0051	U	0.4029		0.0051	U
Molybdenum(Mo), total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Sodium (Na), total.....	369.0358		227.9212		219.4704		263.3607	
Nickel (Ni), total.....	0.0370	U	0.0370	U	0.0562		0.0370	U
Lead (Pb), total.....	0.005	U	0.005	U	0.009		0.005	U
Antimony (Sb), total.....	0.02	U	0.0600	U	0.06	U	0.02	U
Selenium (Se), total.....	0.29		0.0050	U	0.150		0.18	
Strontium (Sr), total.....	7.6571		3.2177		3.6146		4.5343	
Thallium (Tl), total.....	0.01	U	0.01	U	0.01	U	0.01	U
Vanadium (V), total.....	0.0240	U	0.0240	U	0.0300		0.0240	U
Zinc (Zn), total.....	0.0476		0.02	U	0.0957		0.0200	U

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RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-044	0188-881-026	0187-881-033	0287-881-070
Customer ID:	17-86-12-09-87	22-86-03-17-88	22-86-03-24-87	22-86-06-25-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.0076 U	0.0076 U	0.0076 U	0.0076 U
Aluminum (Al), total.....	0.0290 U	0.0319	0.1388	0.0330
Arsenic (As), total.....	0.005 U	0.005 U	0.01 U	0.01 U
Barium (Ba), total.....	0.2634	0.0924	0.0419	0.1908
Beryllium (Be), total.....	0.005 U	0.005 U	0.005 U	0.005 U
Calcium (Ca), total.....	574.3088	63.0093	41.9695	53.8322
Cadmium (Cd), total.....	0.001 U	0.001	0.005 U	0.005 U
Cobalt (Co), total.....	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Chromium (Cr), total.....	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Cesium (Cs), total.....	0.02 U	0.02 U	0.2 U	0.2 U
Copper (Cu), total.....	0.0118	0.0063 U	0.0066	0.0063 U
Iron (Fe), total.....	0.0069 U	0.0697	0.0682	0.0153
Mercury (Hg), total.....	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Potassium (K), total.....	4.7	2.2	6.0	8.2
Lithium (Li), total.....	0.01 U	1.3		
Magnesium (Mg), total.....	162.5240	9.0908	6.5882	7.1633
Manganese (Mn), total.....	0.0051 U	0.1930	0.1034	0.0747
Molybdenum(Mo), total.....	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Sodium (Na), total.....	265.8579	87.0659	185.2432	145.6882
Nickel (Ni), total.....	0.0474	0.1695	0.1097	0.1054
Lead (Pb), total.....	0.005 U	0.001 J	0.005 U	0.015
Antimony (Sb), total.....	0.02 U	0.02 U	0.0600 U	0.06 U
Selenium (Se), total.....	0.004 J	0.003 J	0.0050 U	0.005 U
Strontium (Sr), total.....	5.0306	0.3745	0.2594	0.2941
Thallium (Tl), total.....	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium (V), total.....	0.0240 U	0.240 U	0.0240 U	0.0308
Zinc (Zn), total.....	0.0200 U	0.0380	0.02 U	0.0240

SOLAR PONDS ALLUVIAL WELLS
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RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-112	0487-881-067	0387-881-113	0187-881-022
Customer ID:	22-86-08-28-87	22-86-12-18-87	22-86D-08-28-87	26-86-03-18-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.0076 U	0.0076 U	0.0076 U	0.0076 U
Aluminum (Al), total.....	0.4234	0.0409	0.3777	0.0290 U
Arsenic (As), total.....	0.005 U	0.007		0.40
Barium (Ba), total.....	0.2045	0.1368	0.1972	0.0902
Beryllium (Be), total.....	0.005 U	0.005 U		0.005 U
Calcium (Ca), total.....	50.3961	64.7845	49.3018	82.9436
Cadmium (Cd), total.....	0.0003 J	0.001 U		0.005 U
Cobalt (Co), total.....	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Chromium (Cr), total.....	0.0100 U	0.0127	0.0100 U	0.0100 U
Cesium (Cs), total.....	0.02 U	0.02 U		0.2 U
Copper (Cu), total.....	0.0099	0.0063 U	0.0094	0.0063 U
Iron (Fe), total.....	0.2887	0.1833	0.2776	0.0069 U
Mercury (Hg), total.....	0.0002 U	0.0002 U		0.0002 U
Potassium (K), total.....	10.6	6.7		5.0 U
Lithium (Li), total.....		0.17		
Magnesium (Mg), total.....	9.7533	10.2115	9.6147	109.4108
Manganese (Mn), total.....	0.2297	0.2621	0.2259	0.0092
Molybdenum(Mo), total.....	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Sodium (Na), total.....	129.0079	79.2068	126.8963	368.0944
Nickel (Ni), total.....	0.0938	0.1973	0.1043	0.0370 U
Lead (Pb), total.....	0.005 U	0.002 J		0.005 U
Antimony (Sb), total.....	0.02 U	0.02 U		0.06 U
Selenium (Se), total.....	0.005 U	0.005		0.02
Strontium (Sr), total.....	0.3537	0.4488	0.3502	2.4235
Thallium (Tl), total.....	0.01 U	0.01 U		0.01 U
Vanadium (V), total.....	0.0240 U	0.0240 U	0.0240 U	0.0240 U
Zinc (Zn), total.....	0.0485	0.0200 U	0.0432	0.05

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RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-115		0188-881-029		0187-881-028		0287-881-067	
Customer ID:	26-86-08-28-87		28-86-03-17-88		28-86-03-19-87		28-86-06-25-87	
Matrix:	Water		Water		Water		Water	
Units:	MG/L		MG/L		MG/L		MG/L	
Metals								
Silver (Ag), total.....	0.0076	U	0.0076	U	0.0076		0.0076	U
Aluminum (Al), total.....	0.0419		0.0290	U	0.0290	U	0.0290	U
Arsenic (As), total.....	0.005	U	0.003	J	0.01	U	0.01	U
Barium (Ba), total.....	0.1191		0.1665		0.1802		0.3422	
Beryllium (Be), total.....	0.005	U	0.005	U	0.005	U	0.005	U
Calcium (Ca), total.....	75.8956		479.1007		346.9876		812.6987	
Cadmium (Cd), total.....	0.001	U	0.001		0.005	U	0.005	U
Cobalt (Co), total.....	0.0220	U	0.0502		0.0312		0.0428	
Chromium (Cr), total.....	0.0100	U	0.0122		0.0100	U	0.0100	U
Cesium (Cs), total.....	0.02	U	0.02	U	0.2	U	0.2	U
Copper (Cu), total.....	0.0117		0.0063	U	0.0063	U	0.0114	
Iron (Fe), total.....	0.0069	U	0.0069	U	0.0147		0.0069	U
Mercury (Hg), total.....	0.0002	U	0.0002	U	0.0002	U	0.0003	
Potassium (K), total.....	1.4		0.5		260.0		250	
Lithium (Li), total.....			1.4					
Magnesium (Mg), total.....	127.7899		151.2661		84.9911		243.2036	
Manganese (Mn), total.....	0.0098		1.2420		0.7376		1.7085	
Molybdenum(Mo), total.....	0.0220	U	0.0477		0.0533		0.0826	
Sodium (Na), total.....	296.0713		1800.9309		1211.5603		2535.8950	
Nickel (Ni), total.....	0.0370	U	0.1512		0.0869		0.2854	
Lead (Pb), total.....	0.005	U	0.005	U	0.005	U	0.011	
Antimony (Sb), total.....	0.02	U	0.02	U	0.0600	U	0.06	U
Selenium (Se), total.....	0.18		0.005		0.0050	U	0.005	U
Strontium (Sr), total.....	2.5126		4.4360		2.7577		6.1852	
Thallium (Tl), total.....	0.01	U	0.01	U	0.01	U	0.01	U
Vanadium (V), total.....	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc (Zn), total.....	0.0251		0.0657		0.03		0.0275	

SOLAR PONDS ALLUVIAL WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-032		8609-049-047		8609-030-007		8609-030-017	
Customer ID:	FLDBLK-10-23-87		G118609860		G128609860		G128609862	
Matrix:	Water		Water		Water		Water	
Units:	MG/L		MG/L		MG/L		MG/L	
Metals								
Silver (Ag), total.....	0.0076	U	0.010	U	0.010	U	0.010	U
Aluminum (Al), total.....	0.0290	U	8.4		0.100	U	0.100	U
Arsenic (As), total.....	0.005	U			0.002	U	0.002	U
Barium (Ba), total.....	0.0100	U	0.170		0.100	U	0.100	U
Beryllium (Be), total.....	0.002	J	0.005	U	0.005	U	0.005	U
Calcium (Ca), total.....	0.7500	U	77.4		170		160	
Cadmium (Cd), total.....	0.001	U	0.005	U	0.005	U	0.005	U
Cobalt (Co), total.....	0.0220	U	0.050	U	0.050	U	0.050	U
Chromium (Cr), total.....	0.0113		0.010	U	0.010	U	0.010	U
Cesium (Cs), total.....	0.02	U	0.100	U	0.100	U	0.100	U
Copper (Cu), total.....	0.0063	U	0.020	U	0.020	U	0.020	U
Iron (Fe), total.....	0.0461		3.59		0.075	U	0.075	U
Mercury (Hg), total.....	0.0002	U			0.0002	U	0.0002	U
Potassium (K), total.....	0.5	U	6.84		1.92		1.81	
Lithium (Li), total.....	0.1	U						
Magnesium (Mg), total.....	0.0200	U	24.5		264		9.60	
Manganese (Mn), total.....	0.0051	U	0.128		0.020		0.020	
Molybdenum(Mo), total.....	0.0220	U	0.100	U	0.190		0.100	U
Sodium (Na), total.....	2.1000	U	112		167		86.3	
Nickel (Ni), total.....	0.0370	U	0.040	U	0.040	U	0.048	
Lead (Pb), total.....	0.005	U			0.010	U	0.010	U
Antimony (Sb), total.....	0.02	U			0.050	U	0.050	U
Selenium (Se), total.....	0.005	U			0.002	U	0.0061	
Strontium (Sr), total.....	0.0200	U	0.590		0.828		0.910	
Thallium (Tl), total.....	0.01	U			0.010	U	0.010	U
Vanadium (V), total.....	0.0240	U	0.025	U	0.050	U	0.050	U
Zinc (Zn), total.....	0.0200	U	0.027		0.025		0.094	

SOLAR PONDS ALLUVIAL WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-025-007	8609-025-017	8609-065-007	8609-065-017
Customer ID:	G158609860	G158609862	G178609860	G178609862
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.010 U	0.010 U	0.010 U	0.010 U
Aluminum (Al), total.....	0.100 U	0.100 U	0.100 U	0.100 U
Arsenic (As), total.....	0.002 U	0.002 U	0.002 U	0.002 U
Barium (Ba), total.....	0.120	0.130	0.160	0.170
Beryllium (Be), total.....	0.005 U	0.005 U	0.005	0.016
Calcium (Ca), total.....	324.0	258.0	193.0	193.0
Cadmium (Cd), total.....	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt (Co), total.....	0.065	0.050 U	0.050 U	0.050 U
Chromium (Cr), total.....	0.010 U	0.010 U	0.010 U	0.010 U
Cesium (Cs), total.....	0.100 U	0.100 U	0.150 U	0.150 U
Copper (Cu), total.....	0.020 U	0.020 U	0.020 U	0.020 U
Iron (Fe), total.....	0.075 U	0.075 U	0.075 U	0.075 U
Mercury (Hg), total.....	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Potassium (K), total.....	2.6	2.920	8.80	7.80
Lithium (Li), total.....				
Magnesium (Mg), total.....	61.5	42.0	142.0	137.0
Manganese (Mn), total.....	0.026	0.020	0.010 U	0.010 U
Molybdenum(Mo), total.....	0.100 U	0.190	0.100 U	0.100 U
Sodium (Na), total.....	88.0	81.9	322.0	310.0
Nickel (Ni), total.....	0.040 U	0.040 U	0.040 U	0.040 U
Lead (Pb), total.....	0.010 U	0.010 U	0.010 U	0.010 U
Antimony (Sb), total.....	0.050 U	0.050 U	0.050 U	0.050 U
Selenium (Se), total.....	0.002 U	0.003	0.002 U	0.002 U
Strontium (Sr), total.....	1.70	1.620	3.950	3.780
Thallium (Tl), total.....	0.024	0.024	0.120	0.124
Vanadium (V), total.....	0.050 U	0.050 U	0.025 U	0.025 U
Zinc (Zn), total.....	0.042	0.057	0.005 U	0.005 U

SOLAR PONDS ALLUVIAL WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-051-007	8609-051-022	8609-049-007
Customer ID:	G228609860	G228609862	G268609860
Matrix:	Water	Water	Water
Units:	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.010 U	0.010 U	0.010 U
Aluminum (Al), total.....	0.100 U	0.100 U	0.100 U
Arsenic (As), total.....	0.002 U	0.002 U	0.002 U
Barium (Ba), total.....	0.100 U	0.100 U	0.150
Beryllium (Be), total.....	0.005 U	0.005 U	0.005 U
Calcium (Ca), total.....	57.0	71.3	97.0
Cadmium (Cd), total.....	0.005 U	0.005 U	0.005 U
Cobalt (Co), total.....	0.050 U	0.050 U	0.050 U
Chromium (Cr), total.....	0.010 U	0.010 U	0.010 U
Cesium (Cs), total.....	0.150 U	0.150 U	0.100 U
Copper (Cu), total.....	0.020 U	0.020 U	0.020 U
Iron (Fe), total.....	0.075 U	0.075 U	0.075 U
Mercury (Hg), total.....	0.00067	0.0024	0.00026
Potassium (K), total.....	4.040	4.480	3.300
Lithium (Li), total.....			
Magnesium (Mg), total.....	9.180	11.4	106.0
Manganese (Mn), total.....	0.015	0.016	0.117
Molybdenum(Mo), total.....	0.100 U	0.100 U	0.100 U
Sodium (Na), total.....	99.7	90.7	338.0
Nickel (Ni), total.....	0.040 U	0.040	0.040 U
Lead (Pb), total.....	0.010 U	0.010 U	0.010 U
Antimony (Sb), total.....	0.062	0.062	0.050 U
Selenium (Se), total.....	0.0076	0.0078	0.002 U
Strontium (Sr), total.....	0.320	0.406	2.130
Thallium (Tl), total.....	0.010 U	0.010 U	0.044
Vanadium (V), total.....	0.025 U	0.025 U	0.025 U
Zinc (Zn), total.....	0.005 U	0.005 U	0.005 U

APPENDIX C-3

GROUND-WATER ANALYTICAL DATA
BEDROCK WELLS

VOLATILES ORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0188-881-022	14-86-03-14-88	
0187-881-059	14-86-04-16-87	
0287-881-039	14-86-06-10-87	
0387-881-068	14-86-08-05-87	
0487-881-051	14-86-12-08-87	
0187-881-119	14-86-D-4-16-87	
0188-881-024	16-86-03-14-88	
0187-881-062	16-86-04-22-87	
0287-881-041	16-86-06-10-87	
0387-881-073	16-86-08-06-87	
0487-881-073	16-86-12-17-87	
0487-881-099	23-86-01-15-88	
0187-881-111	23-86-03-18-87	
0188-881-037	23-86-03-21-88	
0287-881-089	23-86-06-24-87	
0387-881-121	23-86-09-23-87	
0487-881-100	25-86-01-15-88	
0187-881-021	25-86-03-18-87	
0188-881-033	25-86-03-21-88	
0287-881-066	25-86-06-24-87	
0387-881-104	25-86-08-27-87	
0187-881-026	27-86-03-19-87	
0188-881-034	27-86-03-21-88	
0187-881-056	27-86-04-15-87	
0287-881-071	27-86-06-24-87	
0387-881-119	27-86-09-22-87	
0487-881-069	27-86-12-16-87	
0487-881-101	30-86-01-15-88	
0188-881-032	30-86-03-16-88	
0187-881-030	30-86-03-23-87	
0187-881-055	30-86-04-15-87	
0287-881-078	30-86-06-24-87	
0387-881-123	30-86-09-23-87	
0188-881-035	32-86-03-21-88	
0187-881-031	32-86-03-23-87	
0187-881-054	32-86-04-15-87	
0287-881-073	32-86-06-29-87	
0387-881-120	32-86-09-22-87	
0487-881-070	32-86-12-16-87	
0188-881-027	39-87-03-16-88	
8609-049-026	G148609860	26
8609-049-036	G148609862	36
8609-049-041	G168609860	41
8612-002-061	G238611860	
8611-014-031	G258611860	
8611-014-036	G278611860	
8609-051-016	G308609860	16
8611-014-041	G328611860	

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	0188-881-022	0187-881-059	0287-881-039	0387-881-068
Customer ID:	14-86-03-14-88	14-86-04-16-87	14-86-06-10-87	14-86-08-05-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1.0	1	1	

Surrogate Recovery

Toluene-d8:	108 %	%	%	%
Bromofluorobenzene:	118 %	%	%	%
1,2-Dichloroethane-d4:	94 %	%	%	%

Analytes

Chloromethane.....	10 U	NR	NR	NR
Bromomethane.....	10 U	NR	NR	NR
Vinyl Chloride.....	10 U	NR	NR	NR
Chloroethane.....	10 U	NR	NR	NR
Methylene Chloride.....	5 U	NR	NR	NR
Acetone.....	5 J	NR	NR	NR
Carbon Disulfide.....	5 U	NR	NR	NR
1,1-Dichloroethene.....	5 U	4 U	4 U	5 U
1,1-Dichloroethane.....	5 U	NR	NR	NR
Trans-1,2-Dichloroethene.....	5 U	4 U	4 U	5 U
Chloroform.....	5 U	4 U	4 U	5 U
1,2-Dichloroethane.....	5 U	4 U	4 U	5 U
2-Butanone.....	10 U	NR	NR	NR
1,1,1-Trichloroethane.....	5 U	4 U	4 U	5 U
Carbon Tetrachloride.....	5 U	4 U	4 U	5 U
Vinyl Acetate.....	10 U	NR	NR	NR
Bromodichloromethane.....	5 U	NR	NR	NR
1,2-Dichloropropane.....	5 U	NR	NR	NR
Trans-1,3-Dichloropropene.....	5 U	NR	NR	NR
Trichloroethene.....	5 U	4 U	4 U	5 U
Dibromochloromethane.....	5 U	NR	NR	NR
1,1,2-Trichloroethane.....	5 U	4 U	4 U	5 U
Benzene.....	5 U	NR	NR	NR
cis-1,3-Dichloropropene.....	5 U	NR	NR	NR
2-Chloroethylvinylether.....		NR	NR	NR
Bromoform.....	5 U	NR	NR	NR
4-Methyl-2-pentanone.....	10 U	NR	NR	NR
2-Hexanone.....	10 U	NR	NR	NR
Tetrachloroethene.....	5 U	4 U	4 U	5 U
1,1,2,2-Tetrachloroethane.....	5 U	NR	NR	NR
Toluene.....	5 U	NR	NR	NR
Chlorobenzene.....	5 U	NR	NR	NR
Ethylbenzene.....	5 U	NR	NR	NR
Styrene.....	5 U	NR	NR	NR
Total Xylenes.....	5 U	NR	NR	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-051	0187-881-119	0188-881-024	0187-881-062
Customer ID:	14-86-12-08-87	14-86-D-4-16-87	16-86-03-14-88	16-86-04-22-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1.0	1	1.0	1

Surrogate Recovery

Toluene-d8:	116 %	%	104 %	%
Bromofluorobenzene:	92 %	%	116 %	%
1,2-Dichloroethane-d4:	94 %	%	94 %	%

Analytes

Chloromethane	10 U	NR	10 U	NR
Bromomethane	10 U	NR	10 U	NR
Vinyl Chloride	10 U	NR	10 U	NR
Chloroethane	10 U	NR	10 U	NR
Methylene Chloride	5 U	NR	5 U	NR
Acetone	10 U	NR	10 U	NR
Carbon Disulfide	5 U	NR	5 U	NR
1,1-Dichloroethene	5 U	4 U	5 U	4 U
1,1-Dichloroethane	5 U	NR	5 U	NR
Trans-1,2-Dichloroethene	5 U	4 U	5 U	4 U
Chloroform	5 U	4 U	5 U	4 U
1,2-Dichloroethane	5 U	4 U	5 U	4 U
2-Butanone	10 U	NR	10 U	NR
1,1,1-Trichloroethane	5 U	4 U	5 U	4 U
Carbon Tetrachloride	5 U	4 U	5 U	4 U
Vinyl Acetate	10 U	NR	10 U	NR
Bromodichloromethane	5 U	NR	5 U	NR
1,2-Dichloropropane	5 U	NR	5 U	NR
Trans-1,3-Dichloropropene	5 U	NR	5 U	NR
Trichloroethene	5 U	4 U	5 U	4 U
Dibromochloromethane	5 U	NR	5 U	NR
1,1,2-Trichloroethane	5 U	4 U	5 U	4 U
Benzene	5 U	NR	5 U	NR
cis-1,3-Dichloropropene	5 U	NR	5 U	NR
2-Chloroethylvinylether	NR	NR		NR
Bromoform	5 U	NR	5 U	NR
4-Methyl-2-pentanone	10 U	NR	10 U	NR
2-Hexanone	10 U	NR	10 U	NR
Tetrachloroethene	5 U	4 U	5 U	4 U
1,1,2,2-Tetrachloroethane	5 U	NR	5 U	NR
Toluene	5 U	NR	5 U	NR
Chlorobenzene	5 U	NR	5 U	NR
Ethylbenzene	5 U	NR	5 U	NR
Styrene	5 U	NR	5 U	NR
Total Xylenes	5 U	NR	5 U	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0287-881-041	0387-881-073	0487-881-073	0487-881-099
Customer ID:	16-86-06-10-87	16-86-08-06-87	16-86-12-17-87	23-86-01-15-88
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1		1.0	1.0

Surrogate Recovery

Toluene-d8:	%	%	114 %	100 %
Bromofluorobenzene:	%	%	74 %	107 %
1,2-Dichloroethane-d4:	%	%	90 %	149 %

Analytes

Chloromethane.....	NR	NR	10 U	10 U
Bromomethane.....	NR	NR	10 U	10 U
Vinyl Chloride.....	NR	NR	10 U	10 U
Chloroethane.....	NR	NR	10 U	10 U
Methylene Chloride.....	NR	NR	12.00	13
Acetone.....	NR	NR	10 U	10 U
Carbon Disulfide.....	NR	NR	5 U	5 U
1,1-Dichloroethene.....	4 U	5 U	5 U	5 U
1,1-Dichloroethane.....	NR	NR	5 U	5 U
Trans-1,2-Dichloroethene.....	4 U	5 U	5 U	5 U
Chloroform.....	4 U	5 U	5 U	5 U
1,2-Dichloroethane.....	4 U	5 U	5 U	5 U
2-Butanone.....	NR	NR	10 U	10 U
1,1,1-Trichloroethane.....	4 U	5 U	5 U	5 U
Carbon Tetrachloride.....	4 U	5 U	5 U	7
Vinyl Acetate.....	NR	NR	10 U	10 U
Bromodichloromethane.....	NR	NR	5 U	5 U
1,2-Dichloropropane.....	NR	NR	5 U	5 U
Trans-1,3-Dichloropropene.....	NR	NR	5 U	5 U
Trichloroethene.....	4 U	5 U	5 U	5 U
Dibromochloromethane.....	NR	NR	5 U	5 U
1,1,2-Trichloroethane.....	4 U	5 U	5 U	5 U
Benzene.....	NR	NR	5 U	5 U
cis-1,3-Dichloropropene.....	NR	NR	5 U	5 U
2-Chloroethylvinylether.....	NR	NR	NR	NA
Bromoform.....	NR	NR	5 U	5 U
4-Methyl-2-pentanone.....	NR	NR	10 U	10 U
2-Hexanone.....	NR	NR	10 U	10 U
Tetrachloroethene.....	4 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane.....	NR	NR	5 U	5 U
Toluene.....	NR	NR	5 U	5 U
Chlorobenzene.....	NR	NR	5 U	5 U
Ethylbenzene.....	NR	NR	5 U	5 U
Styrene.....	NR	NR	5 U	5 U
Total Xylenes.....	NR	NR	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0187-881-111	0188-881-037	0287-881-089	0387-881-121
Customer ID:	23-86-03-18-87	23-86-03-21-88	23-86-06-24-87	23-86-09-23-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1.0		

Surrogate Recovery

Toluene-d8:	%	97 %	%	%
Bromofluorobenzene:	%	110 %	%	%
1,2-Dichloroethane-d4:	%	80 %	%	%

Analytes

Chloromethane	NR	10 U		NR
Bromomethane	NR	10 U		NR
Vinyl Chloride	NR	10 U		NR
Chloroethane	NR	10 U		NR
Methylene Chloride	NR	16		NR
Acetone	NR	10 U		NR
Carbon Disulfide	NR	5 U		NR
1,1-Dichloroethene	4 U	5 U	4 U	5 U
1,1-Dichloroethane	NR	5 U		NR
Trans-1,2-Dichloroethene	4 U	5 U	4 U	5 U
Chloroform	4 U	5 U	4 U	5 U
1,2-Dichloroethane	4 U	5 U	4 U	5 U
2-Butanone	NR	10 U		NR
1,1,1-Trichloroethane	4 U	5 U	4 U	5 U
Carbon Tetrachloride	4 U	5 U	4 U	5 U
Vinyl Acetate	NR	10 U		NR
Bromodichloromethane	NR	5 U		NR
1,2-Dichloropropane	NR	5 U		NR
Trans-1,3-Dichloropropene	NR	5 U		NR
Trichloroethene	4 U	5 U	4 U	5 U
Dibromochloromethane	NR	5 U		NR
1,1,2-Trichloroethane	4 U	5 U	4 U	5 U
Benzene	NR	5 U		NR
cis-1,3-Dichloropropene	NR	5 U		NR
2-Chloroethylvinylether	NR			NR
Bromoform	NR	5 U		NR
4-Methyl-2-pentanone	NR	10 U		NR
2-Hexanone	NR	10 U		NR
Tetrachloroethene	4 U	5 U	4 U	5 U
1,1,2,2-Tetrachloroethane	NR	5 U		NR
Toluene	NR	5 U		NR
Chlorobenzene	NR	5 U		NR
Ethylbenzene	NR	5 U		NR
Styrene	NR	5 U		NR
Total Xylenes	NR	5 U		NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-100	0187-881-021	0188-881-033	0287-881-066
Customer ID:	25-86-01-15-88	25-86-03-18-87	25-86-03-21-88	25-86-06-24-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1.0	1	1	1

Surrogate Recovery

Toluene-d8:	119 %	%	100 %	%
Bromofluorobenzene:	116 %	%	104 %	%
1,2-Dichloroethane-d4:	165 %	%	76 %	%

Analytes

Chloromethane.....	10 U	NR	10 U	NR
Bromomethane.....	10 U	NR	10 U	NR
Vinyl Chloride.....	10 U	NR	10 U	NR
Chloroethane.....	10 U	NR	10 U	NR
Methylene Chloride.....	5 U	NR	17	NR
Acetone.....	10 U	NR	10 U	NR
Carbon Disulfide.....	5 U	NR	5 U	NR
1,1-Dichloroethene.....	5 U	4 U	5 U	4 U
1,1-Dichloroethane.....	5 U	NR	5 U	NR
Trans-1,2-Dichloroethene.....	5 U	4 U	5 U	4 U
Chloroform.....	5 U	4 U	5 U	4 U
1,2-Dichloroethane.....	5 U	4 U	5 U	4 U
2-Butanone.....	10 U	NR	10 U	NR
1,1,1-Trichloroethane.....	5 U	4 U	5 U	4 U
Carbon Tetrachloride.....	7	4 U	5 U	4 U
Vinyl Acetate.....	10 U	NR	10 U	NR
Bromodichloromethane.....	5 U	NR	5 U	NR
1,2-Dichloropropane.....	5 U	NR	5 U	NR
Trans-1,3-Dichloropropene.....	5 U	NR	5 U	NR
Trichloroethene.....	5 U	4 U	5 U	4 U
Dibromochloromethane.....	5 U	NR	5 U	NR
1,1,2-Trichloroethane.....	5 U	4 U	5 U	4 U
Benzene.....	5 U	NR	5 U	NR
cis-1,3-Dichloropropene.....	5 U	NR	5 U	NR
2-Chloroethylvinylether.....	NA	NR		NR
Bromoform.....	5 U	NR	5 U	NR
4-Methyl-2-pentanone.....	10 U	NR	10 U	NR
2-Hexanone.....	10 U	NR	10 U	NR
Tetrachloroethene.....	5 U	4 U	5 U	4 U
1,1,2,2-Tetrachloroethane.....	5 U	NR	5 U	NR
Toluene.....	5 U	NR	5 U	NR
Chlorobenzene.....	5 U	NR	5 U	NR
Ethylbenzene.....	5 U	NR	5 U	NR
Styrene.....	5 U	NR	5 U	NR
Total Xylenes.....	5 U	NR	5 U	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-104	0187-881-026	0188-881-034	0187-881-056
Customer ID:	25-86-08-27-87	27-86-03-19-87	27-86-03-21-88	27-86-04-15-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:		1	1.0	1

Surrogate Recovery

Toluene-d8:	%	%	97 %	%
Bromofluorobenzene:	%	%	102 %	%
1,2-Dichloroethane-d4:	%	%	79 %	%

Analytes

Chloromethane	NR	NR	10 U	NR
Bromomethane	NR	NR	10 U	NR
Vinyl Chloride	NR	NR	10 U	NR
Chloroethane	NR	NR	10 U	NR
Methylene Chloride	NR	NR	17	NR
Acetone	NR	NR	10 U	NR
Carbon Disulfide	NR	NR	5 U	NR
1,1-Dichloroethene	5 U	4 U	5 U	4 U
1,1-Dichloroethane	NR	NR	5 U	NR
Trans-1,2-Dichloroethene	5 U	4 U	5 U	4 U
Chloroform	5 U	4 U	5 U	4 U
1,2-Dichloroethane	5 U	4 U	5 U	4 U
2-Butanone	NR	NR	10 U	NR
1,1,1-Trichloroethane	5 U	4 U	5 U	4 U
Carbon Tetrachloride	5 U	4 U	5 U	4 U
Vinyl Acetate	NR	NR	10 U	NR
Bromodichloromethane	NR	NR	5 U	NR
1,2-Dichloropropane	NR	NR	5 U	NR
Trans-1,3-Dichloropropene	NR	NR	5 U	NR
Trichloroethene	5 U	4 U	5 U	4 U
Dibromochloromethane	NR	NR	5 U	NR
1,1,2-Trichloroethane	5 U	4 U	5 U	4 U
Benzene	NR	NR	5 U	NR
cis-1,3-Dichloropropene	NR	NR	5 U	NR
2-Chloroethylvinylether	NR	NR		NR
Bromoform	NR	NR	5 U	NR
4-Methyl-2-pentanone	NR	NR	10 U	NR
2-Hexanone	NR	NR	10 U	NR
Tetrachloroethene	5 U	4 U	5 U	4 U
1,1,2,2-Tetrachloroethane	NR	NR	5 U	NR
Toluene	NR	NR	5 U	NR
Chlorobenzene	NR	NR	5 U	NR
Ethylbenzene	NR	NR	5 U	NR
Styrene	NR	NR	5 U	NR
Total Xylenes	NR	NR	5 U	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0287-881-071	0387-881-119	0487-881-069	0487-881-101
Customer ID:	27-86-06-24-87	27-86-09-22-87	27-86-12-16-87	30-86-01-15-88
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1		1.0	1.0

Surrogate Recovery

Toluene-d8:	%	%	108 %	111 %
Bromofluorobenzene:	%	%	76 %	119 %
1,2-Dichloroethane-d4:	%	%	94 %	174 %

Analytes

Chloromethane.....	NR	NR	10 U	10 U
Bromomethane.....	NR	NR	10 U	10 U
Vinyl Chloride.....	NR	NR	10 U	10 U
Chloroethane.....	NR	NR	10 U	10 U
Methylene Chloride.....	NR	NR	13.00	5 U
Acetone.....	NR	NR	10 U	10 U
Carbon Disulfide.....	NR	NR	5 U	5 U
1,1-Dichloroethene.....	4 U	5 U	5 U	5 U
1,1-Dichloroethane.....	NR	NR	5 U	5 U
Trans-1,2-Dichloroethene.....	4 U	5 U	5 U	5 U
Chloroform.....	4 U	5 U	5 U	5 U
1,2-Dichloroethane.....	4 U	5 U	5 U	5 U
2-Butanone.....	NR	NR	10 U	10 U
1,1,1-Trichloroethane.....	4 U	5 U	5 U	5 U
Carbon Tetrachloride.....	4 U	5 U	5 U	5 U
Vinyl Acetate.....	NR	NR	10 U	10 U
Bromodichloromethane.....	NR	NR	5 U	5 U
1,2-Dichloropropane.....	NR	NR	5 U	5 U
Trans-1,3-Dichloropropene.....	NR	NR	5 U	5 U
Trichloroethene.....	4 U	5 U	5 U	5 U
Dibromochloromethane.....	NR	NR	5 U	5 U
1,1,2-Trichloroethane.....	4 U	5 U	5 U	5 U
Benzene.....	NR	NR	5 U	5 U
cis-1,3-Dichloropropene.....	NR	NR	5 U	5 U
2-Chloroethylvinylether.....	NR	NR	NR	NA
Bromoform.....	NR	NR	5 U	5 U
4-Methyl-2-pentanone.....	NR	NR	10 U	10 U
2-Hexanone.....	NR	NR	10 U	10 U
Tetrachloroethene.....	4 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane.....	NR	NR	5 U	5 U
Toluene.....	NR	NR	5 U	5 U
Chlorobenzene.....	NR	NR	5 U	5 U
Ethylbenzene.....	NR	NR	5 U	5 U
Styrene.....	NR	NR	5 U	5 U
Total Xylenes.....	NR	NR	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-032	0187-881-030	0187-881-055	0287-881-078
Customer ID:	30-86-03-16-88	30-86-03-23-87	30-86-04-15-87	30-86-06-24-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1.0	1	1	1

Surrogate Recovery

Toluene-d8:	118 %	%	%	%
Bromofluorobenzene:	134 %	%	%	%
1,2-Dichloroethane-d4:	102 %	%	%	%

Analytes

Chloromethane.....	10 U	NR	NR	NR
Bromomethane.....	10 U	NR	NR	NR
Vinyl Chloride.....	10 U	NR	NR	NR
Chloroethane.....	10 U	NR	NR	NR
Methylene Chloride.....	14	NR	NR	NR
Acetone.....	10 U	NR	NR	NR
Carbon Disulfide.....	5 U	NR	NR	NR
1,1-Dichloroethene.....	5 U	4 U	4 U	4 U
1,1-Dichloroethane.....	5 U	NR	NR	NR
Trans-1,2-Dichloroethene.....	5 U	4 U	4 U	4 U
Chloroform.....	5 U	4 U	4 U	4 U
1,2-Dichloroethane.....	5 U	4 U	4 U	4 U
2-Butanone.....	10 U	NR	NR	NR
1,1,1-Trichloroethane.....	5 U	4 U	4 U	4 U
Carbon Tetrachloride.....	5 U	4 U	4 U	4 U
Vinyl Acetate.....	10 U	NR	NR	NR
Bromodichloromethane.....	5 U	NR	NR	NR
1,2-Dichloropropane.....	5 U	NR	NR	NR
Trans-1,3-Dichloropropene.....	5 U	NR	NR	NR
Trichloroethene.....	5 U	4 U	5	4 U
Dibromochloromethane.....	5 U	NR	NR	NR
1,1,2-Trichloroethane.....	5 U	4 U	4 U	4 U
Benzene.....	5 U	NR	NR	NR
cis-1,3-Dichloropropene.....	5 U	NR	NR	NR
2-Chloroethylvinylether.....		NR	NR	NR
Bromoform.....	5 U	NR	NR	NR
4-Methyl-2-pentanone.....	10 U	NR	NR	NR
2-Hexanone.....	10 U	NR	NR	NR
Tetrachloroethene.....	5 U	4 U	4 U	16
1,1,2,2-Tetrachloroethane.....	5 U	NR	NR	NR
Toluene.....	5 U	NR	NR	NR
Chlorobenzene.....	5 U	NR	NR	NR
Ethylbenzene.....	5 U	NR	NR	NR
Styrene.....	5 U	NR	NR	NR
Total Xylenes.....	5 U	NR	NR	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-123	0188-881-035	0187-881-031	0187-881-054
Customer ID:	30-86-09-23-87	32-86-03-21-88	32-86-03-23-87	32-86-04-15-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:		1.0	1	1

Surrogate Recovery

Toluene-d8:	%	97 %	%	%
Bromofluorobenzene:	%	104 %	%	%
1,2-Dichloroethane-d4:	%	80 %	%	%

Analytes

Chloromethane.....	NR	10 U	NR	NR
Bromomethane.....	NR	10 U	NR	NR
Vinyl Chloride.....	NR	10 U	NR	NR
Chloroethane.....	NR	10 U	NR	NR
Methylene Chloride.....	NR	17	NR	NR
Acetone.....	NR	10 U	NR	NR
Carbon Disulfide.....	NR	5 U	NR	NR
1,1-Dichloroethene.....	5 U	5 U	4 U	4 U
1,1-Dichloroethane.....	NR	5 U	NR	NR
Trans-1,2-Dichloroethene.....	5 U	5 U	4 U	4 U
Chloroform.....	5 U	5 U	4 U	4 U
1,2-Dichloroethane.....	5 U	5 U	4 U	4 U
2-Butanone.....	NR	10 U	NR	NR
1,1,1-Trichloroethane.....	5 U	5 U	4 U	4 U
Carbon Tetrachloride.....	5 U	5 U	4 U	4 U
Vinyl Acetate.....	NR	10 U	NR	NR
Bromodichloromethane.....	NR	5 U	NR	NR
1,2-Dichloropropane.....	NR	5 U	NR	NR
Trans-1,3-Dichloropropene.....	NR	5 U	NR	NR
Trichloroethene.....	5 U	5 U	4 U	4 U
Dibromochloromethane.....	NR	5 U	NR	NR
1,1,2-Trichloroethane.....	5 U	5 U	4 U	4 U
Benzene.....	NR	5 U	NR	NR
cis-1,3-Dichloropropene.....	NR	5 U	NR	NR
2-Chloroethylvinylether.....	NR		NR	NR
Bromoform.....	NR	5 U	NR	NR
4-Methyl-2-pentanone.....	NR	10 U	NR	NR
2-Hexanone.....	NR	10 U	NR	NR
Tetrachloroethene.....	5 U	5 U	4 U	4 U
1,1,2,2-Tetrachloroethane.....	NR	5 U	NR	NR
Toluene.....	NR	5 U	NR	NR
Chlorobenzene.....	NR	5 U	NR	NR
Ethylbenzene.....	NR	5 U	NR	NR
Styrene.....	NR	5 U	NR	NR
Total Xylenes.....	NR	5 U	NR	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0287-881-073	0387-881-120	0487-881-070	0188-881-027
Customer ID:	32-86-06-29-87	32-86-09-22-87	32-86-12-16-87	39-87-03-16-88
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1		1.0	1.0

Surrogate Recovery

Toluene-d8:	%	%	116 %	99 %
Bromofluorobenzene:	%	%	76 %	105 %
1,2-Dichloroethane-d4:	%	%	92 %	81 %

Analytes

Chloromethane.....	NR	NR	10 U	10 U
Bromomethane.....	NR	NR	10 U	10 U
Vinyl Chloride.....	NR	NR	10 U	10 U
Chloroethane.....	NR	NR	10 U	10 U
Methylene Chloride.....	NR	NR	14.00	13
Acetone.....	NR	NR	10 U	10 U
Carbon Disulfide.....	NR	NR	5 U	5 U
1,1-Dichloroethene.....	4 U	5 U	5 U	5 U
1,1-Dichloroethane.....	NR	NR	5 U	5 U
Trans-1,2-Dichloroethene.....	4 U	5 U	5 U	5 U
Chloroform.....	4 U	5 U	5 U	5 U
1,2-Dichloroethane.....	4 U	5 U	5 U	5 U
2-Butanone.....	NR	NR	10 U	10 U
1,1,1-Trichloroethane.....	4 U	5 U	5 U	5 U
Carbon Tetrachloride.....	4 U	5 U	5 U	5 U
Vinyl Acetate.....	NR	NR	10 U	10 U
Bromodichloromethane.....	NR	NR	5 U	5 U
1,2-Dichloropropane.....	NR	NR	5 U	5 U
Trans-1,3-Dichloropropene.....	NR	NR	5 U	5 U
Trichloroethene.....	4 U	5 U	5 U	5 U
Dibromochloromethane.....	NR	NR	5 U	5 U
1,1,2-Trichloroethane.....	4 U	5 U	5 U	5 U
Benzene.....	NR	NR	5 U	5 U
cis-1,3-Dichloropropene.....	NR	NR	5 U	5 U
2-Chloroethylvinylether.....	NR	NR	NR	
Bromoform.....	NR	NR	5 U	5 U
4-Methyl-2-pentanone.....	NR	NR	10 U	10 U
2-Hexanone.....	NR	NR	10 U	10 U
Tetrachloroethene.....	4 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane.....	NR	NR	5 U	5 U
Toluene.....	NR	NR	5 U	5 U
Chlorobenzene.....	NR	NR	5 U	5 U
Ethylbenzene.....	NR	NR	5 U	5 U
Styrene.....	NR	NR	5 U	5 U
Total Xylenes.....	NR	NR	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8609-049-026	8609-049-036	8609-049-041	8612-002-061
Customer ID:	G148609860	G148609862	G168609860	G238611860
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Toluene-d8:	92 %	90 %	92 %	106 %
Bromofluorobenzene:	104 %	100 %	104 %	98 %
1,2-Dichloroethane-d4:	96 %	98 %	98 %	110 %

Analytes

Chloromethane	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U
Methylene Chloride	4 J	5 U	5 U	5 U
Acetone	7 BJ	5 BJ	7 BJ	10 U
Carbon Disulfide	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U
2-Butanone	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U
Vinyl Acetate	10 U	10 U	10 U	10 U
Bromodichloromethane	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U
Benzene	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	10 U	10 U	10 U	10 U
Bromoform	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U
Tetrachloroethene	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U
Total Xylenes	5 U	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND BEDROCK WELLS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8611-014-031	8611-014-036	8609-051-016	8611-014-041
Customer ID:	G258611860	G278611860	G308609860	G328611860
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Toluene-d8:	96 %	96 %	96 %	98 %
Bromofluorobenzene:	96 %	94 %	98 %	94 %
1,2-Dichloroethane-d4:	90 %	90 %	104 %	96 %

Analytes

Chloromethane	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U
Methylene Chloride	5 U	2 J	5 U	5 U
Acetone	21 B	7 JB	10 U	10 U
Carbon Disulfide	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U
2-Butanone	15	10 U	10 U	9 J
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U
Vinyl Acetate	10 U	10 U	10 U	10 U
Bromodichloromethane	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U
Trichloroethene	5 U	1 J	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U
Benzene	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U
2-Chloroethylvinylether	10 U	10 U	10 U	10 U
Bromoform	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U
Tetrachloroethene	5 U	5 U	2 J	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U
Toluene	2 J	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U
Total Xylenes	5 U	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

RADIONUCLIDES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0188-881-022	14-86-03-15-88	
0187-881-061	14-86-04-16-87	
0287-881-039	14-86-06-10-87	
0387-881-049	14-86-08-06-87	
0487-881-045	14-86-12-09-87	
0188-881-024	16-86-03-15-88	
0187-881-063	16-86-04-22-87	
0287-881-041	16-86-06-10-87	
0387-881-058	16-86-08-07-87	
0487-881-061	16-86-12-18-87	
0487-881-079	23-86-01-16-88	
0188-881-037	23-86-03-22-88	
0487-881-080	25-86-01-16-88	
0187-881-021	25-86-03-18-87	
0188-881-033	25-86-03-22-88	
0287-881-066	25-86-06-24-87	
0387-881-089	25-86-08-28-87	
0487-881-081	25-86D-01-16-88	
0187-881-026	27-86-03-19-87	
0188-881-034	27-86-03-22-88	
0187-881-058	27-86-04-15-87	
0287-881-071	27-86-06-24-87	
0487-881-059	27-86-12-17-87	
0487-881-082	30-86-01-16-88	
0188-881-032	30-86-03-17-88	
0187-881-030	30-86-03-23-87	
0187-881-057	30-86-04-15-87	
0287-881-078	30-86-06-24-87	
0387-881-105	30-86-09-24-87	
0188-881-035	32-86-03-22-88	
0187-881-031	32-86-03-23-87	
0187-881-056	32-86-04-15-87	
0287-881-073	32-86-06-29-87	
0387-881-106	32-86-09-23-87	
0487-881-060	32-86-12-17-87	
0188-881-027	39-87-03-17-88	
1000-000-251	G148609860	22756-5-2
1000-000-253	G148609862	22756-5-4
1000-000-257	G168609860	22756-5-5
1000-000-271	G328611860	23088-3-2

SOLAR POND BEDROCK WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-022	0187-881-061	0287-881-039
Customer ID:	14-86-03-15-88	14-86-04-16-87	14-86-06-10-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	0 +/- 5	pci/l	4 +/- 6	pc/l	4 +/- 6	pci/l
Gross Beta	7 +/- 11	pci/l	-11 +/- 3	pc/l	45 +/- 16	pci/l
Uranium 233, 234	1.1 +/- 0.2	pci/l	2.6 +/- 1.9	pc/l	13 +/- 2	pci/l
Uranium 235	0.00 +/- 0.06	pci/l	.23 +/- .78	pc/l	0.66 +/- 0.44	pci/l
Uranium 238	0.30 +/- 0.12	pci/l	0.2 +/- 1.0	pc/l	14 +/- 2	pci/l
Strontium 89, 90			1.38	pc/l	<1.0	pci/l
Plutonium 239, 240	0.00 +/- 0.40	pci/l	1.2 +/- 0.9	pc/l	0.0 +/- 0.8	pci/l
Americium 241	0.00 +/- 0.61	pci/l	0.0 +/- 1.2	pc/l	0.0 +/- 1.2	pci/l
Cesium 137			NR		NR	
Tritium	< 210	pci/l	<110	pc/l	<110	pci/l

Sample Information

RFW Batch ID:	0387-881-049	0487-881-045	0188-881-024
Customer ID:	14-86-08-06-87	14-86-12-09-87	16-86-03-15-88
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	9 +/- 28	pci/l	5 +/- 8	pci/l	-1 +/- 6	pci/l
Gross Beta	22 +/- 47	pci/l	-4 +/- 12	pci/l	12 +/- 56	pci/l
Uranium 233, 234	1.6 +/- 1.5	pci/l	1.1 +/- 0.2	pci/l	1.1 +/- 0.2	pci/l
Uranium 235	0.1 +/- 0.4	pci/l	0.00 +/- .02	pci/l	0.06 +/- 0.07	pci/l
Uranium 238	-0.9 +/- 1.0	pci/l	.22 +/- .12	pci/l	0.52 +/- 0.15	pci/l
Strontium 89, 90	<1.0	pci/l	<1.0	pci/l		
Plutonium 239, 240	.25 +/- .82	pci/l	0.00 +/- .37	pci/l	0.00 +/- 0.40	pci/l
Americium 241	.04 +/- .40	pci/l	0.00 +/- .13	pci/l	0.03 +/- 0.14	pci/l
Cesium 137						
Tritium	<492	pci/l	<210	pci/l	< 200	pci/l

SOLAR POND BEDROCK WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0187-881-063	0287-881-041	0387-881-058
Customer ID:	16-86-04-22-87	16-86-06-10-87	16-86-08-07-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha.....	27 +/- 9	pc/l	27 +/- 13	pci/l	29 +/- 31	pci/l
Gross Beta.....	21 +/- 50	pc/l	61 +/- 14	pci/l	18 +/- 45	pci/l
Uranium 233, 234.....	1.0 +/- 0.8	pc/l	0.56 +/- 0.69	pci/l	2.3 +/- 1.8	pci/l
Uranium 235.....	.40 +/- .46	pc/l	0.08 +/- 0.35	pci/l	1.3 +/- 1.2	pci/l
Uranium 238.....	.48 +/- .53	pc/l	1.1 +/- 0.6	pci/l	-0.4 +/- 1.2	pci/l
Strontium 89, 90.....	1.53	pc/l	1.0	pci/l	1.3	pci/l
Plutonium 239, 240.....	0.3 +/- 1.1	pc/l	0.0 +/- 0.66	pci/l	-.03 +/- .21	pci/l
Americium 241.....	0.4 +/- 1.6	pc/l	0.0 +/- 1.3	pci/l	.10 +/- .33	pci/l
Cesium 137.....	NR		NR			
Tritium.....	<110	pc/l	<110	pci/l	<540	pci/l

Sample Information

RFW Batch ID:	0487-881-061	0487-881-079	0188-881-037
Customer ID:	16-86-12-18-87	23-86-01-16-88	23-86-03-22-88
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha.....	8 +/- 11	pci/l	11 +/- 8	pci/l	0 +/- 9	pci/l
Gross Beta.....	24 +/- 12	pci/l	28 +/- 13	pci/l	17 +/- 23	pci/l
Uranium 233, 234.....	.63 +/- .33	pci/l	2.7 +/- 0.4	pci/l	0.05 +/- 0.10	pci/l
Uranium 235.....	0.00 +/- .10	pci/l	.06 +/- .06	pci/l	2.9 +/- 0.4	pci/l
Uranium 238.....	.14 +/- .18	pci/l	1.1 +/- 0.2	pci/l	0.14 +/- 0.08	pci/l
Strontium 89, 90.....	<1.0	pci/l	<1.0	pci/l		
Plutonium 239, 240.....	0.00 +/- .18	pci/l	0.00 +/- .16	pci/l	0.00 +/- 0.71	pci/l
Americium 241.....			.01 +/- .11	pci/l	0.05 +/- 0.10	pci/l
Cesium 137.....						
Tritium.....	<210	pci/l	<220	pci/l	< 210	pci/l

SOLAR POND BEDROCK WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	0487-881-080	0187-881-021	0188-881-033
Customer ID:	25-86-01-16-88	25-86-03-18-87	25-86-03-22-88
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	13 +/- 11	pci/l	140 +/- 26	pci/l	0 +/- 10	pci/l
Gross Beta	13 +/- 14	pci/l	116 +/- 31	pci/l	13 +/- 22	pci/l
Uranium 233, 234	6.6 +/- 1.1	pci/l	9.1 +/- 2.6	pci/l	4.3 +/- 0.7	pci/l
Uranium 235	.19 +/- .14	pci/l	0.06 +/- 0.66	pci/l	0.26 +/- 0.14	pci/l
Uranium 238	2.1 +/- 0.5	pci/l	7.0 +/- 1.9	pci/l	1.1 +/- 0.3	pci/l
Strontium 89, 90	<1.0	pci/l	1.8	pci/l		
Plutonium 239, 240	0.00 +/- .24	pci/l	0.08 +/- 0.80	pci/l		
Americium 241	0.00 +/- .10	pci/l	0.0 +/- 8.4	pci/l	0.03 +/- 0.30	pci/l
Cesium 137			NR			
Tritium	<220	pci/l	210	pci/l	< 210	pci/l

Sample Information

RFW Batch ID:	0287-881-066	0387-881-089	0487-881-081
Customer ID:	25-86-06-24-87	25-86-08-28-87	25-86D-01-16-88
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	18 +/- 12	pci/l	16 +/- 41	pci/l	3 +/- 8	pci/l
Gross Beta	6 +/- 8	pci/l	54 +/- 52	pci/l	13 +/- 14	pci/l
Uranium 233, 234	2.3 +/- 0.9	pci/l	1.4 +/- 1.7	pci/l	5.1 +/- 0.8	pci/l
Uranium 235	0.06 +/- 0.33	pci/l	0.6 +/- 0.7	pci/l	.18 +/- .09	pci/l
Uranium 238	1.8 +/- 0.8	pci/l	2.4 +/- 1.7	pci/l	1.4 +/- 0.3	pci/l
Strontium 89, 90	2.3	pci/l	<1.0	pci/l		
Plutonium 239, 240	0.0 +/- 0.79	pci/l	.29 +/- .77	pci/l	0.00 +/- .49	pci/l
Americium 241	0.0 +/- 1.3	pci/l	-.04 +/- .18	pci/l		
Cesium 137	NR					
Tritium	<110	pci/l	<492	pci/l	<220	pci/l

SOLAR POND BEDROCK WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0187-881-026	0188-881-034	0187-881-058
Customer ID:	27-86-03-19-87	27-86-03-22-88	27-86-04-15-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	32 +/- 14	pci/l	-1 +/- 9	pci/l	7 +/- 9	pc/l
Gross Beta	73 +/- 10	pci/l	11 +/- 22	pci/l	21 +/- 20	pc/l
Uranium 233, 234	1.8 +/- 1.7	pci/l			1.1 +/- 0.9	pc/l
Uranium 235	0.23 +/- 0.77	pci/l			.19 +/- .41	pc/l
Uranium 238	2.6 +/- 1.7	pci/l			.39 +/- .59	pc/l
Strontium 89, 90	1.8	pci/l			NR	
Plutonium 239, 240	0.0 +/- 0.94	pci/l	0.00 +/- 0.18	pci/l	0.0 +/- .79	pc/l
Americium 241	0.0 +/- 1.6	pci/l	0.00 +/- 0.51	pci/l	0.2 +/- 1.9	pc/l
Cesium 137	NR				NR	
Tritium	<110	pci/l	< 210	pci/l	<110	pc/l

Sample Information

RFW Batch ID:	0287-881-071	0487-881-059	0487-881-082
Customer ID:	27-86-06-24-87	27-86-12-17-87	30-86-01-16-88
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	6 +/- 8	pci/l	3 +/- 5	pci/l	304 +/- 69	pci/l
Gross Beta	15 +/- 59	pci/l	5 +/- 11	pci/l	215 +/- 20	pci/l
Uranium 233, 234	1.7 +/- 0.9	pci/l	.55 +/- .17	pci/l	160 +/- 34	pci/l
Uranium 235	0.0 +/- 0.31	pci/l	0.00 +/- .05	pci/l	5.2 +/- 1.4	pci/l
Uranium 238	0.97 +/- 0.61	pci/l	.45 +/- .14	pci/l	100 +/- 22	pci/l
Strontium 89, 90	<1.0	pci/l	<1.0	pci/l	5.6	pci/l
Plutonium 239, 240	0.5 +/- 0.7	pci/l	0.00 +/- .16	pci/l	0.00 +/- .37	pci/l
Americium 241	0.2 +/- 1.2	pci/l	0.00 +/- .69	pci/l		
Cesium 137	NR					
Tritium	<110	pci/l	<210	pci/l	7900 +/- 200	pci/l

SOLAR POND BEDROCK WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-032	0187-881-030	0187-881-057
Customer ID:	30-86-03-17-88	30-86-03-23-87	30-86-04-15-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	320 +/- 60	pci/l	261 +/- 41	pci/l	158 +/- 124	pc/l
Gross Beta	250 +/- 40	pci/l	219 +/- 30	pci/l	178 +/- 50	pc/l
Uranium 233, 234			19 +/- 42	pci/l	370 +/- 250	pc/l
Uranium 235			10 +/- 6	pci/l	0.0 +/- 57	pc/l
Uranium 238			125 +/- 29	pci/l	32 +/- 67	pc/l
Strontium 89, 90			5.01	pci/l	6.61	pc/l
Plutonium 239, 240	0.00 +/- 0.74	pci/l	0.0 +/- 1.9	pci/l	0.0 +/- 3.8	pc/l
Americium 241			1.1 +/- 9.9	pci/l	0.0 +/- 1.2	pc/l
Cesium 137			NR		NR	
Tritium	6300 +/- 200	pci/l	6400	pci/l	8500	pc/l

Sample Information

RFW Batch ID:	0287-881-078	0387-881-105	0188-881-035
Customer ID:	30-86-06-24-87	30-86-09-24-87	32-86-03-22-88
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	327 +/- 182	pci/l	221 +/- 224	pci/l	0 +/- 9	pci/l
Gross Beta	372 +/- 58	pci/l	121 +/- 60	pci/l	5 +/- 22	pci/l
Uranium 233, 234	150 +/- 50	pci/l	139.6 +/- 21.1	pci/l	0.33 +/- 0.15	pci/l
Uranium 235	6.2 +/- 44	pci/l	6.5 +/- 2.0	pci/l	0.14 +/- 0.10	pci/l
Uranium 238	97 +/- 34	pci/l	93.1 +/- 14.7	pci/l	1.7 +/- 0.3	pci/l
Strontium 89, 90	4.3 +/- 0.8	pci/l	NR			
Plutonium 239, 240	0.0 +/- 0.55	pci/l	-0.2 +/- 1.1	pci/l	0.00 +/- 0.38	pci/l
Americium 241	0.0 +/- 1.3	pci/l	-.04 +/- .96	pci/l	0.10 +/- 0.10	pci/l
Cesium 137	NR					
Tritium	9800	pci/l	8611 +/- 825	pci/l	< 210	pci/l

SOLAR POND BEDROCK WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0187-881-031	0187-881-056	0287-881-073
Customer ID:	32-86-03-23-87	32-86-04-15-87	32-86-06-29-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	28 +/- 13	pci/l	60 +/- 28	pc/l	-3 +/- 4	pci/l
Gross Beta	38 +/- 5	pci/l	27 +/- 24	pc/l	6 +/- 3	pci/l
Uranium 233, 234	1.3 +/- 0.8	pci/l	2.4 +/- 1.1	pc/l	0.57 +/- 0.73	pci/l
Uranium 235	0.18 +/- 0.36	pci/l	.001 +/- .43	pc/l	0.0 +/- 0.37	pci/l
Uranium 238	1.6 +/- 0.8	pci/l	.87 +/- .87	pc/l	0.52 +/- 0.54	pci/l
Strontium 89, 90	<0.6	pci/l	2.66	pc/l	<1.0	pci/l
Plutonium 239, 240	0.24 +/- 0.70	pci/l	0.0 +/- 1.3	pc/l	0.0 +/- .67	pci/l
Americium 241	0.0 +/- 1.8	pci/l	0.0 +/- 1.2	pc/l	0.0 +/- 1.2	pci/l
Cesium 137	NR		NR		NR	
Tritium	<110	pci/l	<110	pc/l	<110	pci/l

Sample Information

RFW Batch ID:	0387-881-106	0487-881-060	0188-881-027
Customer ID:	32-86-09-23-87	32-86-12-17-87	39-87-03-17-88
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	-2 +/- 19	pci/l	5 +/- 6	pci/l	-2 +/- 3	pci/l
Gross Beta	6 +/- 40	pci/l	-3 +/- 10	pci/l	1 +/- 11	pci/l
Uranium 233, 234	0.6 +/- 1.3	pci/l	.89 +/- .21	pci/l	0.78 +/- 0.16	pci/l
Uranium 235	-0.1 +/- 0.7	pci/l	0.00 +/- .02	pci/l	0.01 +/- 0.06	pci/l
Uranium 238	3.2 +/- 1.0	pci/l	.32 +/- .13	pci/l	0.33 +/- 0.11	pci/l
Strontium 89, 90	<1.0	pci/l	<1.0	pci/l		
Plutonium 239, 240	0.2 +/- 1.0	pci/l	0.00 +/- .21	pci/l	0.01 +/- 0.10	pci/l
Americium 241	-.04 +/- .26	pci/l	0.00 +/- .14	pci/l	0.00 +/- 0.11	pci/l
Cesium 137						
Tritium	<472	pci/l	<210	pci/l	< 210	pci/l

SOLAR POND BEDROCK WELLS
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	1000-000-251	1000-000-253	1000-000-257
Customer ID:	G148609860	G148609862	G168609860
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha.....	54 +/- 24	pci/l	71 +/- 31	pci/l	22 +/- 20	pci/l
Gross Beta.....	36 +/- 12	pci/l	68 +/- 13	pci/l	33 +/- 21	pci/l
Uranium 233, 234.....	7.4 +/- 0.7	pci/l	6.8 +/- 1.8	pci/l	3.0 +/- 1.0	pci/l
Uranium 235.....	NR		NR		NR	
Uranium 238.....	2.8 +/- 0.4	pci/l	4.4 +/- 1.4	pci/l	2.1 +/- 0.8	pci/l
Strontium 89, 90.....	NR		NR		NR	
Plutonium 239, 240.....	-0.04 +/- 0.07	pci/l	-0.25 +/- 0.98	pci/l	-0.48 +/- 0.67	pci/l
Americium 241.....	0.01 +/- 0.03	pci/l	0.21 +/- 0.38	pci/l	0.01 +/- 0.25	pci/l
Cesium 137.....	NR		NR		NR	
Tritium.....	-0.09 +/- 0.22	pci/ml	0.00 +/- 0.22	pci/ml	0.11 +/- 0.23	pci/ml

Sample Information

RFW Batch ID:	1000-000-271
Customer ID:	G328611860
Matrix:	Water

Radio Chemistry

Gross Alpha.....	130 +/- 70	pci/l
Gross Beta.....	200 +/- 30	pci/l
Uranium 233, 234.....	13 +/- 3	pci/l
Uranium 235.....	NR	
Uranium 238.....	10 +/- 2	pci/l
Strontium 89, 90.....	NR	
Plutonium 239, 240.....	0.8 +/- 1.0	pci/l
Americium 241.....	-0.06 +/- 0.75	pci/l
Cesium 137.....	NR	
Tritium.....	0.10 +/- 0.20	pci/ml

INORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0188-881-022	14-86-03-15-88	
0187-881-061	14-86-04-16-87	
0287-881-042	14-86-06-10-87	
0387-881-073	14-86-08-06-87	
0487-881-037	14-86-12-08-87	
0188-881-024	16-86-03-15-88	
0187-881-063	16-86-04-22-87	
0287-881-044	16-86-06-10-87	
0387-881-079	16-86-08-07-87	
0487-881-061	16-86-12-17-87	
0487-881-077	23-86-01-15-88	
0187-881-022	23-86-03-18-87	
0188-881-037	23-86-03-22-88	
0487-881-078	25-86-01-15-88	
0187-881-023	25-86-03-18-87	
0188-881-033	25-86-03-22-88	
0287-881-071	25-86-06-24-87	
0387-881-108	25-86-08-28-87	
0487-881-082	25-86DUP-01-15-88	
0187-881-027	27-86-03-19-87	
0188-881-034	27-86-03-22-88	
0187-881-058	27-86-04-15-87	
0287-881-072	27-86-06-24-87	
0387-881-120	27-86-09-23-87	
0487-881-055	27-86-12-16-87	
0487-881-079	30-86-01-15-88	
0188-881-032	30-86-03-17-88	
0187-881-031	30-86-03-23-87	
0187-881-057	30-86-04-15-87	
0287-881-074	30-86-06-24-87	
0387-881-122	30-86-09-24-87	
0188-881-035	32-86-03-22-88	
0187-881-032	32-86-03-23-87	
0187-881-056	32-86-04-15-87	
0287-881-080	32-86-06-29-87	
0387-881-119	32-86-09-23-87	
0487-881-056	32-86-12-16-87	
0188-881-027	39-87-03-17-88	
8609-049-028	G148609860	
8609-049-038	G148609862	
8609-049-043	G168609860	
8609-051-018	G308609860	
8611-014-043	G328611860	

SOLAR POND BEDROCK WELLS
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-022			0187-881-061			0287-881-042	
Customer ID:	14-86-03-15-88			14-86-04-16-87			14-86-06-10-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3							NR	
HCO3- as CaCO3	206		mg/l	340		mg/l	332	mg/l
Chloride	80.5		mg/l	79.2		mg/l	81.7	mg/l
Sulfate	480		mg/l	550		mg/l	570	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.02	U	mg/l	0.60		mg/l	0.20	U mg/l
Sulfide								
Cyanide, Total				1.0	U	mg/l	1.0	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	1367		mg/l	1303		mg/l	1331	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0387-881-073			0487-881-037			0188-881-024	
Customer ID:	14-86-08-06-87			14-86-12-08-87			16-86-03-15-88	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3				NR				
HCO3- as CaCO3	347		mg/l	384		mg/l	210	mg/l
Chloride	83.2		mg/l	78.9		mg/l	208	mg/l
Sulfate	148		mg/l	562		mg/l	430	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.20	U	mg/l	0.04		mg/l	0.06	mg/l
Sulfide								
Cyanide, Total	1	U	mg/l	NR				
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	1292		mg/l	1358		mg/l	1462	mg/l
Total Suspended Solids								
% Solids								

SOLAR POND BEDROCK WELLS
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	0187-881-063			0287-881-044			0387-881-079	
Customer ID:	16-86-04-22-87			16-86-06-10-87			16-86-08-07-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3				NR				
HCO3- as CaCO3	368		mg/l	348		mg/l	364	mg/l
Chloride	242		mg/l	202		mg/l	201	mg/l
Sulfate	179		mg/l	175		mg/l	495	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.60		mg/l	0.20	U	mg/l	0.29	mg/l
Sulfide								
Cyanide, Total	1.0	U	mg/l	1.0	U	mg/l	1	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	2489		mg/l	1470		mg/l	1442	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0487-881-061			0487-881-077			0187-881-022	
Customer ID:	16-86-12-17-87			23-86-01-15-88			23-86-03-18-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3	NR			NR				
HCO3- as CaCO3	381		mg/l	190		mg/l		
Chloride	180		mg/l	172		mg/l	190	mg/l
Sulfate	420		mg/l	321		mg/l	340	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.09		mg/l	0.02	U	mg/l		
Sulfide								
Cyanide, Total	NR			NR				
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	1459		mg/l	962		mg/l		
Total Suspended Solids								
% Solids								

SOLAR POND BEDROCK WELLS
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-037			0487-881-078			0187-881-023	
Customer ID:	23-86-03-22-88			25-86-01-15-88			25-86-03-18-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3				NR				
HCO3- as CaCO3	114	mg/l		437	mg/l		410	mg/l
Chloride	172	mg/l		44.9	mg/l		52.5	mg/l
Sulfate	290	mg/l		1030	mg/l		1100	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.07	mg/l		0.10	mg/l		0.28	mg/l
Sulfide								
Cyanide, Total				NR			1.0	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	1040	mg/l		2337	mg/l		2322	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0188-881-033			0287-881-071			0387-881-108	
Customer ID:	25-86-03-22-88			25-86-06-24-87			25-86-08-28-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3				NR				
HCO3- as CaCO3	104	mg/l		390	mg/l		407	mg/l
Chloride	43.2	mg/l		40.5	mg/l		42.2	mg/l
Sulfate	1050	mg/l		400	mg/l		1060	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.12	mg/l		0.20	U	mg/l	0.45	mg/l
Sulfide								
Cyanide, Total				1.0	U	mg/l	1	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	2293	mg/l		2242		mg/l	2265	mg/l
Total Suspended Solids								
% Solids								

SOLAR POND BEDROCK WELLS
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-082			0187-881-027			0188-881-034	
Customer ID:	25-86DUP-01-15-88			27-86-03-19-87			27-86-03-22-88	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3	NR							
HCO3- as CaCO3	435		mg/l	180		mg/l	102	mg/l
Chloride	43.6		mg/l	144		mg/l	163	mg/l
Sulfate	1120		mg/l	245		mg/l	220	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.10		mg/l	42.0		mg/l	0.43	mg/l
Sulfide								
Cyanide, Total	NR			1.0	U	mg/l		
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	2297		mg/l	793		mg/l	818	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0187-881-058			0287-881-072			0387-881-120	
Customer ID:	27-86-04-15-87			27-86-06-24-87			27-86-09-23-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3				NR				
HCO3- as CaCO3	161		mg/l	168		mg/l	186	mg/l
Chloride	167		mg/l	160		mg/l	166.8	mg/l
Sulfate	260		mg/l	188		mg/l	340	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.20	U	mg/l	0.20	U	mg/l	0.20	U mg/l
Sulfide								
Cyanide, Total	1.0	U	mg/l	1.0	U	mg/l	1	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	756		mg/l	812		mg/l	842	mg/l
Total Suspended Solids								
% Solids								

SOLAR POND BEDROCK WELLS
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	0487-881-055			0487-881-079			0188-881-032	
Customer ID:	27-86-12-16-87			30-86-01-15-88			30-86-03-17-88	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3	NR			NR				
HCO3- as CaCO3	184.2		mg/l	298		mg/l	180	mg/l
Chloride	141		mg/l	276		mg/l	210	mg/l
Sulfate	219		mg/l	282		mg/l	205	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	0.40		mg/l	1457		mg/l	1410	mg/l
Sulfide								
Cyanide, Total	NR			NR				
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	823		mg/l	13682		mg/l	10571	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0187-881-031			0187-881-057			0287-881-074	
Customer ID:	30-86-03-23-87			30-86-04-15-87			30-86-06-24-87	
Matrix:	Water			Water			Water	
Inorganics								
CO3= as CaCO3							NR	
HCO3- as CaCO3	334		mg/l	221		mg/l	297	mg/l
Chloride	179		mg/l	215		mg/l	288	mg/l
Sulfate	215		mg/l	340		mg/l	280	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	1440		mg/l	8.40		mg/l	2040	mg/l
Sulfide								
Cyanide, Total	1.0	U	mg/l	1.0		mg/l	1.0	U mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	8085		mg/l	9430		mg/l	13740	mg/l
Total Suspended Solids								
% Solids								

SOLAR POND BEDROCK WELLS
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	0387-881-122	0188-881-035	0187-881-032
Customer ID:	30-86-09-24-87	32-86-03-22-88	32-86-03-23-87
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3								
HCO3- as CaCO3	301		mg/l	104		mg/l	223	mg/l
Chloride	318		mg/l	121		mg/l	107	mg/l
Sulfate	301		mg/l	65.0		mg/l	92.0	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	1520		mg/l	0.04		mg/l	6.90	mg/l
Sulfide								
Cyanide, Total	1	U	mg/l				1.0 U	mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	14019		mg/l	501		mg/l	523	mg/l
Total Suspended Solids								
% Solids								

Sample Information

RFW Batch ID:	0187-881-056	0287-881-080	0387-881-119
Customer ID:	32-86-04-15-87	32-86-06-29-87	32-86-09-23-87
Matrix:	Water	Water	Water

Inorganics

CO3= as CaCO3				NR				
HCO3- as CaCO3	195		mg/l	175		mg/l	187	mg/l
Chloride	107		mg/l	146		mg/l	121.7	mg/l
Sulfate	92.0		mg/l	57.0		mg/l	66	mg/l
pH								
Fluoride								
Nitrate-Nitrite-Nitrogen	1.88		mg/l	0.40		mg/l	0.46	mg/l
Sulfide								
Cyanide, Total	1.0	U	mg/l	1.0	U	mg/l	1 U	mg/l
Hexavalent Chromium (Cr+6)								
Total Dissolved Solids	575		mg/l	512		mg/l	547	mg/l
Total Suspended Solids								
% Solids								

SOLAR POND BEDROCK WELLS
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	0487-881-056		0188-881-027		8609-049-028		
Customer ID:	32-86-12-16-87		39-87-03-17-88		G148609860		
Matrix:	Water		Water		Water		
Inorganics							
CO3= as CaCO3	NR						
HCO3- as CaCO3	198.1	mg/l	46.3	mg/l			
Chloride	109	mg/l	6.98	mg/l	160		mg/l
Sulfate	75.0	mg/l	134	mg/l	310		mg/l
pH							
Fluoride							
Nitrate-Nitrite-Nitrogen	0.19	mg/l	0.10	mg/l	5.0	U	mg/l
Sulfide							
Cyanide, Total	NR				0.005	U	mg/l
Hexavalent Chromium (Cr+6)					10	U	mg/l
Total Dissolved Solids	507	mg/l	296	mg/l	1200		mg/l
Total Suspended Solids							
% Solids							

Sample Information

RFW Batch ID:	8609-049-038		8609-049-043		8609-051-018		
Customer ID:	G148609862		G168609860		G308609860		
Matrix:	Water		Water		Water		
Inorganics							
CO3= as CaCO3							
HCO3- as CaCO3							
Chloride	150	mg/l	220	mg/l	430		mg/l
Sulfate	490	mg/l	510	mg/l	100		mg/l
pH							
Fluoride							
Nitrate-Nitrite-Nitrogen	5.0	U mg/l	5.0	U mg/l	9640		mg/l
Sulfide							
Cyanide, Total	0.005	U mg/l	0.005	U mg/l	0.005	U	mg/l
Hexavalent Chromium (Cr+6)	10	U mg/l	10	U mg/l	10	U	mg/l
Total Dissolved Solids	1100	mg/l	1400	mg/l	20000		mg/l
Total Suspended Solids							
% Solids							

SOLAR POND BEDROCK WELLS
INORGANIC
DATA SUMMARY REPORT

Sample Information

RFW Batch ID: 8611-014-043
Customer ID: G328611860
Matrix: Water

Inorganics

CO3= as CaCO3.....			
HCO3- as CaCO3.....			
Chloride.....	122		mg/l
Sulfate.....	101		mg/l
pH.....			
Fluoride.....			
Nitrate-Nitrite-Nitrogen.....			
Sulfide.....			
Cyanide, Total.....	0.005	U	mg/l
Hexavalent Chromium (Cr+6).....			
Total Dissolved Solids.....	616		mg/l
Total Suspended Solids.....			
% Solids.....			

METALS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0188-881-022	14-86-03-15-88	
0187-881-059	14-86-04-16-87	
0287-881-039	14-86-06-11-87	
0387-881-074	14-86-08-06-87	
0487-881-038	14-86-12-09-87	
0188-881-024	16-86-03-15-88	
0187-881-062	16-86-04-22-87	
0287-881-041	16-86-06-11-87	
0387-881-080	16-86-08-07-87	
0487-881-063	16-86-12-18-87	
0487-881-119	23-86-01-16-88	
0188-881-037	23-88-03-22-88	
0487-881-120	25-86-01-16-88	
0187-881-021	25-86-03-18-87	
0188-881-033	25-86-03-22-88	
0287-881-066	25-86-06-25-87	
0387-881-114	25-86-08-28-87	
0487-881-121	25-86D-01-16-88	
0187-881-026	27-86-03-19-87	
0188-881-034	27-86-03-22-88	
0187-881-056	27-86-04-15-87	
0287-881-071	27-86-06-25-87	
0387-881-127	27-86-09-23-87	
0487-881-057	27-86-12-17-87	
0487-881-122	30-86-01-16-88	
0188-881-032	30-86-03-17-88	
0187-881-030	30-86-03-23-87	
0187-881-055	30-86-04-15-87	
0287-881-078	30-86-06-25-87	
0387-881-129	30-86-09-24-87	
0487-881-123	30-86D-01-16-88	
0188-881-035	32-86-03-22-88	
0187-881-031	32-86-03-23-87	
0187-881-054	32-86-04-15-87	
0287-881-073	32-86-06-30-87	
0387-881-126	32-86-09-23-87	
0487-881-058	32-86-12-17-87	
0188-881-027	39-87-03-17-88	
8609-049-027	G148609860	
8609-049-037	G148609862	
8609-049-042	G168609860	
8611-014-032	G258611860	
8609-051-017	G308609860	
8611-014-042	G328611860	

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0188-881-022		0187-881-059		0287-881-039		0387-881-074	
Customer ID:	14-86-03-15-88		14-86-04-16-87		14-86-06-11-87		14-86-08-06-87	
Matrix:	Water		Water		Water		Water	
Units:	MG/L		MG/L		MG/L		MG/L	
Metals								
Silver (Ag), total.....	0.0076	U	0.0076	U	0.0076	U	0.0076	U
Aluminum (Al), total.....	0.0600		0.1303		0.0290	U	0.0290	U
Arsenic (As), total.....	0.005	U	0.0100	U	0.01	U	0.005	U
Barium (Ba), total.....	0.0432		0.0718		0.0352		0.0678	
Beryllium (Be), total.....	0.005	U	0.005	U	0.005	U	0.005	U
Calcium (Ca), total.....	154.9583		141.4104		155.3028		140.4949	
Cadmium (Cd), total.....	0.001	U	0.0050	U	0.005	U	0.0005	J
Cobalt (Co), total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium (Cr), total.....	0.0204		0.0100	U	0.0100	U	0.0100	U
Cesium (Cs), total.....	0.02	U	0.2	U	0.2	U	0.02	U
Copper (Cu), total.....	0.0113		0.0063	U	0.0063	U	0.0063	U
Iron (Fe), total.....	0.1385		0.0069	U	0.0069	U	0.0069	U
Mercury (Hg), total.....	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Potassium (K), total.....	5.3		7.0		7.6		7.7	
Lithium (Li), total.....	0.09	J						
Magnesium (Mg), total.....	47.3450		41.1586		41.0748		41.2658	
Manganese (Mn), total.....	0.1393		0.1693		0.1361		0.1968	
Molybdenum(Mo), total.....	0.220	U	0.0220	U	0.0220	U	0.0220	U
Sodium (Na), total.....	266.6864		251.2908		250.3055		253.3903	
Nickel (Ni), total.....	0.0370	U	0.0370	U	0.0476		0.0370	U
Lead (Pb), total.....	0.005	U	0.0050	U	0.005	U	0.005	U
Antimony (Sb), total.....	0.02	U	0.06	U	0.06	U	0.02	U
Selenium (Se), total.....	0.005	U	0.005	U	0.005	U	0.004	J
Strontium (Sr), total.....	2.4226		2.0499		2.1035		2.0727	
Thallium (Tl), total.....	0.01	U	0.0100	U	0.01	U	0.01	U
Vanadium (V), total.....	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc (Zn), total.....	0.0321		0.09		0.1309		0.0226	

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-038	0188-881-024	0187-881-062	0287-881-041
Customer ID:	14-86-12-09-87	16-86-03-15-88	16-86-04-22-87	16-86-06-11-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver	(Ag), total	0.0076	U	0.0076	U	0.0076	U	0.0076	U
Aluminum	(Al), total	0.0290	U	0.1211		0.0290	U	0.0290	U
Arsenic	(As), total	0.005	U	0.002	J	0.01	U	0.01	U
Barium	(Ba), total	0.0350		0.0989		0.0516		0.0296	
Beryllium	(Be), total	0.005	U	0.002	J	0.005	U	0.005	U
Calcium	(Ca), total	138.6145		421.0941		169.2706		166.9031	
Cadmium	(Cd), total	0.001	U	0.001	U	0.005	U	0.005	U
Cobalt	(Co), total	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium	(Cr), total	0.0100	U	0.0452		0.0100	U	0.0100	U
Cesium	(Cs), total	0.02	U	0.02	U	0.2	U	0.2	U
Copper	(Cu), total	0.0134		0.0510		0.0452		0.0725	
Iron	(Fe), total	0.0080		0.2093		0.0069	U	0.0069	U
Mercury	(Hg), total	0.0001	J	0.0002	U	0.0002	U	0.0002	U
Potassium	(K), total	8.2		9.9		7.0		7.7	
Lithium	(Li), total	0.1		0.11					
Magnesium	(Mg), total	39.3763		130.1180		49.2672		47.9527	
Manganese	(Mn), total	0.01344		0.3758		0.3438		0.2145	
Molybdenum	(Mo), total	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Sodium	(Na), total	237.7085		706.6186		291.2435		271.1135	
Nickel	(Ni), total	0.0370	U	0.0512		0.1672		0.2061	
Lead	(Pb), total	0.005	U	0.005	U	0.005	U	0.006	
Antimony	(Sb), total	0.020	U	0.015	J	0.0600	U	0.06	U
Selenium	(Se), total	0.002	J	0.003	J	0.0050	U	0.005	U
Strontium	(Sr), total	2.0996		6.1678		2.2263		2.1208	
Thallium	(Tl), total	0.01	U	0.01	U	0.01	U	0.01	U
Vanadium	(V), total	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc	(Zn), total	0.0226		0.1149		0.02		0.0492	

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-080	0487-881-063	0487-881-119	0188-881-037
Customer ID:	16-86-08-07-87	16-86-12-18-87	23-86-01-16-88	23-88-03-22-88
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total	0.0076 U	0.0076 U	0.0076 U	0.0076 U
Aluminum (Al), total	0.0290 U	0.0384	0.0551	0.0773
Arsenic (As), total	0.005 U	0.005 U	0.005	0.005 U
Barium (Ba), total	0.0418	0.0315	0.0328	0.0308
Beryllium (Be), total	0.005 U	0.003 J	0.005 U	0.005 U
Calcium (Ca), total	161.1283	148.0253	96.4941	98.7690
Cadmium (Cd), total	0.0006 J	0.001 U	0.001 U	0.001 U
Cobalt (Co), total	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Chromium (Cr), total	0.0198	0.0120	0.0100 U	0.0146
Cesium (Cs), total	0.02 U	0.02 U	0.02 U	0.02 U
Copper (Cu), total	0.0545	0.0203	0.0287	0.0101
Iron (Fe), total	0.0125	0.0169	0.0266	0.1262
Mercury (Hg), total	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Potassium (K), total	8.0	8.7	14.0	11
Lithium (Li), total		0.12	0.08 J	0.07 J
Magnesium (Mg), total	46.9435	45.2821	24.7129	26.1184
Manganese (Mn), total	0.1336	0.1375	0.1107	0.1349
Molybdenum(Mo), total	0.0220 U	0.0220 U	0.0200 U	0.0301
Sodium (Na), total	287.2474	272.4460	182.1679	180.2115
Nickel (Ni), total	0.0891	0.0464	0.0370 U	0.0370 U
Lead (Pb), total	0.005 U	0.005 U	0.003 J	0.005 U
Antimony (Sb), total	0.02 U	0.02 U	0.02 U	0.02 U
Selenium (Se), total	0.004 J	0.005	0.007	0.005 U
Strontium (Sr), total	2.1011	2.0335	1.1892	1.2860
Thallium (Tl), total	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium (V), total	0.0240 U	0.0240 U	0.0288	0.0240 U
Zinc (Zn), total	0.0578	0.0295	0.0200 U	0.1830

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-120	0187-881-021	0188-881-033	0287-881-066
Customer ID:	25-86-01-16-88	25-86-03-18-87	25-86-03-22-88	25-86-06-25-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver	(Ag), total.....	0.0333		0.0076	U	0.0076	U	0.0076	U
Aluminum	(Al), total.....	0.0675		0.0290	U	0.0446		0.0290	U
Arsenic	(As), total.....	0.019		0.01	U	0.005	U	0.01	U
Barium	(Ba), total.....	0.0214		0.0210		0.0223		0.0301	
Beryllium	(Be), total.....	0.005	U	0.005	U	0.005	U	0.005	U
Calcium	(Ca), total.....	233.6315		192.4488		206.6097		268.7477	
Cadmium	(Cd), total.....	0.001	U	0.005	U	0.001	U	0.005	U
Cobalt	(Co), total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium	(Cr), total.....	0.0378		0.0100	U	0.0161		0.0100	U
Cesium	(Cs), total.....	0.02	U	0.2	U	0.02	U	0.2	U
Copper	(Cu), total.....	0.0307		0.0063	U	0.0108		0.0063	U
Iron	(Fe), total.....	0.0226		0.0069	U	0.0785		0.0069	U
Mercury	(Hg), total.....	0.0002	U	0.0002	U	0.0002	U	0.0003	
Potassium	(K), total.....	15.5		25.0		15		17	
Lithium	(Li), total.....	0.2				0.18			
Magnesium	(Mg), total.....	100.3111		76.7010		85.1800		107.3566	
Manganese	(Mn), total.....	0.1493		0.2537		0.1504		0.4087	
Molybdenum	(Mo), total.....	0.0515		0.0404		0.0220	U	0.0378	
Sodium	(Na), total.....	282.6460		247.4230		259.1834		306.8792	
Nickel	(Ni), total.....	0.0757		0.1249		0.0370	U	0.2102	
Lead	(Pb), total.....	0.005	U	0.005	U	0.005	U	0.005	U
Antimony	(Sb), total.....	0.02	U	0.06	U	0.02	U	0.06	U
Selenium	(Se), total.....	0.002	J	0.005	U	0.005	U	0.005	U
Strontium	(Sr), total.....	3.1450		2.5688		3.0430		3.2156	
Thallium	(Tl), total.....	0.01	U	0.01	U	0.01	U	0.01	U
Vanadium	(V), total.....	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc	(Zn), total.....	0.0232		0.07		0.0635		0.0323	

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-114	0487-881-121	0187-881-026	0188-881-034
Customer ID:	25-86-08-28-87	25-86D-01-16-88	27-86-03-19-87	27-86-03-22-88
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver	(Ag), total.....	0.0076	U	0.0076	U	0.0076	U	0.0076	U
Aluminum	(Al), total.....	0.0290	U	0.0820		0.0290	U	0.0362	
Arsenic	(As), total.....	0.005	U	0.021		0.01	U	0.005	U
Barium	(Ba), total.....	0.0412		0.0276		0.0213		0.0268	
Beryllium	(Be), total.....	0.005	U	0.005	U	0.005	U	0.005	U
Calcium	(Ca), total.....	209.3199		240.9251		40.8094		44.4459	
Cadmium	(Cd), total.....	0.0003	J	0.001	U	0.005	U	0.001	U
Cobalt	(Co), total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium	(Cr), total.....	0.0158		0.0139		0.0100	U	0.0100	U
Cesium	(Cs), total.....	0.02	U	0.02	U	0.2	U	0.02	U
Copper	(Cu), total.....	0.0082		0.0284		0.0063	U	0.0477	
Iron	(Fe), total.....	0.0069	U	0.0514		0.0069	U	0.0806	
Mercury	(Hg), total.....	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Potassium	(K), total.....	18.0		15.3		9.0		1.0	
Lithium	(Li), total.....			0.3				0.06	J
Magnesium	(Mg), total.....	101.2028		100.4831		14.0300		12.7476	
Manganese	(Mn), total.....	0.1711		0.1532		0.0727		0.0841	
Molybdenum	(Mo), total.....	0.0226		0.0227		0.0532		0.0220	U
Sodium	(Na), total.....	280.0023		293.8468		259.9004		201.6286	
Nickel	(Ni), total.....	0.1005		0.0564		0.1271		0.0415	
Lead	(Pb), total.....	0.005	U	0.005	U	0.005	U	0.005	U
Antimony	(Sb), total.....	0.02	U	0.02	U	0.0600	U	0.02	U
Selenium	(Se), total.....	0.005	U	0.005	U	0.0050	U	0.005	U
Strontium	(Sr), total.....	3.1179		3.1630		0.6022		0.6457	
Thallium	(Tl), total.....	0.01	U	0.01	U	0.01	U	0.01	U
Vanadium	(V), total.....	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc	(Zn), total.....	0.0237		0.0315		0.02	U	0.0507	

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0187-881-056	0287-881-071	0387-881-127	0487-881-057
Customer ID:	27-86-04-15-87	27-86-06-25-87	27-86-09-23-87	27-86-12-17-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L
Metals				
Silver (Ag), total	0.0076 U	0.0089	0.0076 U	0.0076 U
Aluminum (Al), total	0.0429	0.0290 U	0.0321	0.0596
Arsenic (As), total	0.0100 U	0.01 U	0.005 U	0.005 U
Barium (Ba), total	0.0313	0.0279	0.0574	0.0258
Beryllium (Be), total	0.005 U	0.005 U	0.005 U	0.005 U
Calcium (Ca), total	51.6383	50.2646	41.6908	43.9156
Cadmium (Cd), total	0.0050 U	0.005 U	0.001 U	0.001 U
Cobalt (Co), total	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Chromium (Cr), total	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Cesium (Cs), total	0.2 U	0.2 U	0.02 U	0.02 U
Copper (Cu), total	0.0067	0.0067	0.0315	0.0374
Iron (Fe), total	0.0295	0.0069 U	0.0194	0.0459
Mercury (Hg), total	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Potassium (K), total	7.4	5.6	9.1	5.9
Lithium (Li), total				0.1 U
Magnesium (Mg), total	16.3832	13.7816	13.3113	12.6190
Manganese (Mn), total	0.1074	0.0758	0.0627	0.0775
Molybdenum(Mo), total	0.0295	0.0336	0.0220 U	0.0246
Sodium (Na), total	247.4084	219.6025	200.8369	205.7062
Nickel (Ni), total	0.1869	0.1158	0.0993	0.0622
Lead (Pb), total	0.0050 U	0.016	0.005 U	0.002 J
Antimony (Sb), total	0.06 U	0.06 U	0.02 U	0.02 U
Selenium (Se), total	0.005 U	0.005 U	0.005	0.006
Strontium (Sr), total	0.6644	0.6149	0.6258	0.6214
Thallium (Tl), total	0.0100 U	0.01 U	0.01 U	0.01 U
Vanadium (V), total	0.0240 U	0.0300	0.0240 U	0.0240 U
Zinc (Zn), total	0.3	0.0200 U	0.0200 U	0.0218

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-122	0188-881-032	0187-881-030	0187-881-055
Customer ID:	30-86-01-16-88	30-86-03-17-88	30-86-03-23-87	30-86-04-15-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver	(Ag),	total.....	0.0076	U	0.0076	U	0.0102		0.0130	
Aluminum	(Al),	total.....	0.0952		0.0311		0.0290	U	0.0290	U
Arsenic	(As),	total.....	0.011		0.002	J	0.01	U	0.0100	U
Barium	(Ba),	total.....	0.2230		0.2364		0.2099		0.3108	
Beryllium	(Be),	total.....	0.005	U	0.005	U	0.005	U	0.005	U
Calcium	(Ca),	total.....	1130.4343		845.0279		681.5574		1270.2438	
Cadmium	(Cd),	total.....	0.001	U	0.001	U	0.005	U	0.0050	U
Cobalt	(Co),	total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium	(Cr),	total.....	0.0122		0.0188		0.0100	U	0.0100	U
Cesium	(Cs),	total.....	0.02	U	0.02	U	0.2	U	0.2	U
Copper	(Cu),	total.....	0.0375		0.0063	U	0.0063	U	0.0063	U
Iron	(Fe),	total.....	0.0262		0.0834		0.0069	U	0.0069	U
Mercury	(Hg),	total.....	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Potassium	(K),	total.....	146.00		146		132.0		82.0	
Lithium	(Li),	total.....	1.2		0.82					
Magnesium	(Mg),	total.....	274.2444		229.4845		135.9616		215.1646	
Manganese	(Mn),	total.....	0.0224		0.0051	U	0.0542		0.0789	
Molybdenum	(Mo),	total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Sodium	(Na),	total.....	1390.1968		1263.3406		1062.7017		1145.1616	
Nickel	(Ni),	total.....	0.0689		0.0433		0.0370	U	0.0370	U
Lead	(Pb),	total.....	0.005	U	0.005	U	0.005	U	0.0050	U
Antimony	(Sb),	total.....	0.02	U	0.02	U	0.0600	U	0.06	U
Selenium	(Se),	total.....	0.017		0.005		0.0050	U	0.007	
Strontium	(Sr),	total.....	10.2243		7.7581		5.6997		11.7885	
Thallium	(Tl),	total.....	0.01	U	0.01	U	0.01	U	0.0100	U
Vanadium	(V),	total.....	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc	(Zn),	total.....	0.0267		0.0360		0.03		0.3	

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0287-881-078	0387-881-129	0487-881-123	0188-881-035
Customer ID:	30-86-06-25-87	30-86-09-24-87	30-86D-01-16-88	32-86-03-22-88
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.0076 U	0.0076 U	0.0076 U	0.0076 U
Aluminum (Al), total.....	0.0290 U	0.0290 U	0.0820	0.0560
Arsenic (As), total.....	0.01 U	0.002 U		0.005 U
Barium (Ba), total.....	0.3155	0.3571	0.2120	0.1159
Beryllium (Be), total.....	0.005 U	0.005 U		0.005 U
Calcium (Ca), total.....	1692.0455	1172.4248	1031.3494	37.0507
Cadmium (Cd), total.....	0.005 U	0.001 U		0.001 U
Cobalt (Co), total.....	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Chromium (Cr), total.....	0.0100 U	0.0169	0.0100 U	0.0100 U
Cesium (Cs), total.....	0.2 U	0.02 U		0.02 U
Copper (Cu), total.....	0.0063 U	0.0064	0.0250	0.0063 U
Iron (Fe), total.....	0.0069 U	0.0069 U	0.0069 U	0.1414
Mercury (Hg), total.....	0.0002 U	0.0002 U		0.0002 U
Potassium (K), total.....	74	125		5.4
Lithium (Li), total.....				0.1 U
Magnesium (Mg), total.....	308.1397	309.5655	264.8040	9.5568
Manganese (Mn), total.....	0.0703	0.0648	0.0232	0.1557
Molybdenum(Mo), total.....	0.0220 U	0.0220 U	0.0220 U	0.0220 U
Sodium (Na), total.....	1407.9877	1284.9274	1266.8781	121.7173
Nickel (Ni), total.....	0.0370 U	0.0370 U	0.0580	0.0370 U
Lead (Pb), total.....	0.006	0.005 U		0.005 U
Antimony (Sb), total.....	0.06 U	0.02 U		0.02 U
Selenium (Se), total.....	0.005 U	0.011		0.005 U
Strontium (Sr), total.....	14.2163	12.2595	9.6899	0.4892
Thallium (Tl), total.....	0.01 U	0.01 U		0.01 U
Vanadium (V), total.....	0.0240 U	0.0240 U	0.0240 U	0.0240 U
Zinc (Zn), total.....	0.0200 U	0.0265	0.0211	0.2735

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0187-881-031	0187-881-054	0287-881-073	0387-881-126
Customer ID:	32-86-03-23-87	32-86-04-15-87	32-86-06-30-87	32-86-09-23-87
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver	(Ag),	total.....	0.0076	U	0.0076	U	0.0076	U	0.0076	U
Aluminum	(Al),	total.....	0.0290	U	0.0897		0.0290	U	0.0402	
Arsenic	(As),	total.....	0.01	U	0.0100	U	0.01	U	0.005	U
Barium	(Ba),	total.....	0.0385		0.1404		0.1323		0.1358	
Beryllium	(Be),	total.....	0.005	U	0.005	U	0.005	U	0.005	U
Calcium	(Ca),	total.....	52.4600		52.2507		62.1752		37.7962	
Cadmium	(Cd),	total.....	0.005	U	0.0050	U	0.005	U	0.001	U
Cobalt	(Co),	total.....	0.0220	U	0.0220	U	0.0220	U	0.0220	U
Chromium	(Cr),	total.....	0.0100	U	0.0100	U	0.0100	U	0.0100	U
Cesium	(Cs),	total.....	0.2	U	0.2	U	0.2	U	0.02	U
Copper	(Cu),	total.....	0.0104		0.0063	U	0.0063	U	0.0154	
Iron	(Fe),	total.....	0.0069	U	0.0069	U	0.0069	U	0.0250	
Mercury	(Hg),	total.....	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Potassium	(K),	total.....	10.0		5.0		5.0	U	7.0	
Lithium	(Li),	total.....								
Magnesium	(Mg),	total.....	13.4199		12.5789		12.6078		9.4922	
Manganese	(Mn),	total.....	0.0253		0.0624		0.5887		0.1441	
Molybdenum	(Mo),	total.....	0.0329		0.0312		0.0412		0.0220	U
Sodium	(Na),	total.....	152.1539		152.2707		36.2891		127.9161	
Nickel	(Ni),	total.....	0.0370	U	0.0370	U	0.0622		0.0370	U
Lead	(Pb),	total.....	0.005	U	0.0050	U	0.009		0.005	U
Antimony	(Sb),	total.....	0.0600	U	0.06	U	0.06	U	0.02	U
Selenium	(Se),	total.....	0.0050	U	0.005	U	0.005	U	0.004	J
Strontium	(Sr),	total.....	0.6197		0.5777		0.4252		0.4991	
Thallium	(Tl),	total.....	0.01	U	0.0100	U	0.01	U	0.01	U
Vanadium	(V),	total.....	0.0240	U	0.0240	U	0.0240	U	0.0240	U
Zinc	(Zn),	total.....	0.02	U	0.4		0.0200	U	0.0988	

SOLAR POND BEDROCK WELLS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-058	0188-881-027	8609-049-027	8609-049-037
Customer ID:	32-86-12-17-87	39-87-03-17-88	G148609860	G148609862
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.0076 U	0.0076 U	0.010 U	0.010 U
Aluminum (Al), total.....	0.0605	0.0297	0.100 U	0.100 U
Arsenic (As), total.....	0.005	0.002 J	0.002 U	0.002 U
Barium (Ba), total.....	0.1174	0.0202	0.100 U	0.100 U
Beryllium (Be), total.....	0.005 U	0.005 U	0.005 U	0.005 U
Calcium (Ca), total.....	39.0180	8.9522	95.1	95.8
Cadmium (Cd), total.....	0.001 U	0.001	0.005 U	0.005 U
Cobalt (Co), total.....	0.0220 U	0.0220 U	0.050 U	0.050 U
Chromium (Cr), total.....	0.0100 U	0.0100 U	0.010 U	0.010 U
Cesium (Cs), total.....	0.02 U	0.02 U	0.100 U	0.100 U
Copper (Cu), total.....	0.0465	0.0063 U	0.020 U	0.020 U
Iron (Fe), total.....	0.0401	0.0276	0.075 U	0.075 U
Mercury (Hg), total.....	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Potassium (K), total.....	7.0	5.0	7.92	8.15
Lithium (Li), total.....	0.07 J	0.1 U		
Magnesium (Mg), total.....	9.0414	1.4221	29.2	29.3
Manganese (Mn), total.....	0.1400	0.0075	0.042	0.043
Molybdenum(Mo), total.....	0.0220 U	0.0220 U	0.100 U	0.100 U
Sodium (Na), total.....	132.8561	19.6097	267	286
Nickel (Ni), total.....	0.0370 U	0.0370 U	0.040 U	0.040 U
Lead (Pb), total.....	0.002 J	0.005 U	0.010 U	0.010 U
Antimony (Sb), total.....	0.02 U	0.02 U	0.050 U	0.050 U
Selenium (Se), total.....	0.005	0.003 J	0.002 U	0.020 U
Strontium (Sr), total.....	0.4950	0.0869	1.37	1.30
Thallium (Tl), total.....	0.02 U	0.01 U	0.010 U	0.010 U
Vanadium (V), total.....	0.0240 U	0.0240 U	0.025 U	0.025 U
Zinc (Zn), total.....	0.0416	0.0200 U	0.005 U	0.005 U

SOLAR POND BEDROCK WELLS
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INORGANICS DATA SUMMARY REPORT

Sample Information

RFW Batch ID:	8609-049-042		8611-014-032		8609-051-017		8611-014-042	
Customer ID:	G168609860		G258611860		G308609860		G328611860	
Matrix:	Water		Water		Water		Water	
Units:	MG/L		MG/L		MG/L		MG/L	
Metals								
Silver (Ag), total	0.010	U	0.009		0.030		0.010	
Aluminum (Al), total	0.100	U	0.610		0.170		0.100	U
Arsenic (As), total	0.002	U	0.010	U	0.002	U	0.010	U
Barium (Ba), total	0.100	U	0.100	U	0.580		0.100	
Beryllium (Be), total	0.005	U	0.005	U	0.005	U	0.005	U
Calcium (Ca), total	142.0		224.0		193.0		31.1	
Cadmium (Cd), total	0.005	U	0.005	U	0.005	U	0.005	U
Cobalt (Co), total	0.050	U	0.025		0.050	U	0.025	U
Chromium (Cr), total	0.010	U	0.010	U	0.010	U	0.010	U
Cesium (Cs), total	0.100	U	0.150	U	0.150	U	0.150	U
Copper (Cu), total	0.020	U	0.020	U	0.020	U	0.020	U
Iron (Fe), total	0.075	U	0.075	U	0.478		0.075	U
Mercury (Hg), total	0.0003		0.0002	U	0.0011		0.0002	U
Potassium (K), total	6.260		35.0		38.60		8.35	
Lithium (Li), total								
Magnesium (Mg), total	45.5		80.5		165.0		7.66	
Manganese (Mn), total	0.063		0.237		0.631		0.023	
Molybdenum(Mo), total	0.100	U	0.313		0.100	U	0.100	U
Sodium (Na), total	297.0		33.8		1440.0		118.0	
Nickel (Ni), total	0.040	U	0.965		0.040	U	0.020	U
Lead (Pb), total	0.010	U	0.005	U	0.010	U	0.012	
Antimony (Sb), total	0.050	U	0.060	U	0.050	U	0.060	U
Selenium (Se), total	0.0045		0.005	U	0.010		0.005	U
Strontium (Sr), total	1.880		2.850		21.5		0.580	
Thallium (Tl), total	0.010	U	0.010	U	0.544		0.010	U
Vanadium (V), total	0.025	U	0.025	U	0.025	U	0.025	U
Zinc (Zn), total	0.005		0.059		0.023		0.077	

APPENDIX C-4

SURFACE WATER ANALYTICAL DATA

VOLATILE ORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0387-881-011	SW-59-07-21-87	
0387-881-012	SW-60-07-21-87	
0487-881-093	SW-60-11-11-87	
0387-881-013	SW-61-07-22-87	
0487-881-094	SW-61-11-11-87	
8608-044-021	SW03088600	21
8608-024-001	SW17088600	01
8608-056-006	SW18088600	06
8608-041-026	SW21088600	26
8608-041-036	SW23088600	36
8608-041-041	SW24088600	41
8608-041-046	SW25088600	46
8608-029-001	SWA1088600	01
8608-029-007	SWA2088600	07
8608-029-013	SWA3088600	13
8608-029-019	SWA4088600	19
8608-033-001	SWB1088600	01
8608-033-006	SWB2088600	06
8608-033-011	SWB3088600	11
8608-033-016	SWB4088600	16
8608-036-037	SWB5088600	37

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-011	0387-881-012	0487-881-093	0387-881-013
Customer ID:	SW-59-07-21-87	SW-60-07-21-87	SW-60-11-11-87	SW-61-07-22-87
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1.0	1

Surrogate Recovery

Toluene-d8:	%	%	92 %	%
Bromofluorobenzene:	%	%	94 %	%
1,2-Dichloroethane-d4:	%	%	88 %	%

Analytes

Chloromethane	NR	NR	10 U	NR
Bromomethane	NR	NR	10 U	NR
Vinyl Chloride	NR	NR	10 U	NR
Chloroethane	NR	NR	10 U	NR
Methylene Chloride	NR	NR	44.00	NR
Acetone	NR	NR	10 U	NR
Carbon Disulfide	NR	NR	5 U	NR
1,1-Dichloroethene	133	5 U	5 U	5 U
1,1-Dichloroethane	NR	NR	5 U	NR
Trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U
Chloroform	40	5 U	10.00	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U
2-Butanone	NR	NR	10 U	NR
1,1,1-Trichloroethane	5 U	5 U	5 U	33
Carbon Tetrachloride	605	173	145.00	5 U
Vinyl Acetate	NR	NR	10 U	NR
Bromodichloromethane	NR	NR	5 U	NR
1,2-Dichloropropane	NR	NR	5 U	NR
Trans-1,3-Dichloropropene	NR	NR	5 U	NR
Trichloroethene	62	5 U	25.00	6
Dibromochloromethane	NR	NR	5 U	NR
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U
Benzene	NR	NR	5 U	NR
cis-1,3-Dichloropropene	NR	NR	5 U	NR
2-Chloroethylvinylether	NR	NR	NR	NR
Bromoform	NR	NR	5 U	NR
4-Methyl-2-pentanone	NR	NR	10 U	NR
2-Hexanone	NR	NR	10 U	NR
Tetrachloroethene	60	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	NR	NR	5 U	NR
Toluene	NR	NR	11.00	NR
Chlorobenzene	NR	NR	5 U	NR
Ethylbenzene	NR	NR	5 U	NR
Styrene	NR	NR	5 U	NR
Total Xylenes	NR	NR	5 U	NR

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0487-881-094	8608-044-021	8608-024-001	8608-056-006
Customer ID:	SW-61-11-11-87	SW03088600	SW17088600	SW18088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1.0	1	1	1

Surrogate Recovery

Toluene-d8:	96 %	97 %	99 %	100 %
Bromofluorobenzene:	100 %	98 %	99 %	98 %
1,2-Dichloroethane-d4:	88 %	91 %	92 %	92 %

Analytes

Chloromethane.....	10 U	10 U	10 U	10 U
Bromomethane.....	10 U	10 U	10 U	10 U
Vinyl Chloride.....	10 U	10 U	10 U	10 U
Chloroethane.....	10 U	10 U	10 U	10 U
Methylene Chloride.....	20.00	5 U	5 U	22
Acetone.....	10 U	10 U	10 U	5 BJ
Carbon Disulfide.....	5 U	5 U	5 U	5 B
1,1-Dichloroethene.....	5 U	5 U	5 U	5 U
1,1-Dichloroethane.....	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene.....	5 U	5 U	3 J	5 U
Chloroform.....	15.00	5 U	5 U	5 U
1,2-Dichloroethane.....	5 U	5 U	5 U	5 U
2-Butanone.....	10 U	10 U	10 U	5 J
1,1,1-Trichloroethane.....	5 U	5 U	5 U	5 U
Carbon Tetrachloride.....	6.00	5 U	5 U	5 U
Vinyl Acetate.....	10 U	10 U	10 U	10 U
Bromodichloromethane.....	5 U	5 U	5 U	5 U
1,2-Dichloropropane.....	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
Trichloroethene.....	70.00	5 U	1 J	2 J
Dibromochloromethane.....	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane.....	5 U	5 U	5 U	5 U
Benzene.....	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
2-Chloroethylvinylether.....	NR	10 U	10 U	10 U
Bromoform.....	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone.....	10 U	10 U	10 U	10 U
2-Hexanone.....	10 U	10 U	10 U	10 U
Tetrachloroethene.....	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane.....	5 U	5 U	5 U	5 U
Toluene.....	12.00	5 U	5 U	5 U
Chlorobenzene.....	5 U	5 U	5 U	5 U
Ethylbenzene.....	5 U	5 U	5 U	5 U
Styrene.....	5 U	5 U	5 U	5 U
Total Xylenes.....	5 U	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-041-026	8608-041-036	8608-041-041	8608-041-046
Customer ID:	SW21088600	SW23088600	SW24088600	SW25088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Toluene-d8:	97 %	97 %	98 %	96 %
Bromofluorobenzene:	96 %	95 %	95 %	95 %
1,2-Dichloroethane-d4:	89 %	88 %	89 %	87 %

Analytes

Chloromethane.....	10 U	10 U	10 U	10 U
Bromomethane.....	10 U	10 U	10 U	10 U
Vinyl Chloride.....	2 J	10 U	10 U	10 U
Chloroethane.....	10 U	10 U	10 U	10 U
Methylene Chloride.....	1 J	1 J	1 J	21
Acetone.....	14 B	16 B	17 B	10 U
Carbon Disulfide.....	5 U	5 U	5 U	5 U
1,1-Dichloroethene.....	5 U	5 U	5 U	5 U
1,1-Dichloroethane.....	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene.....	9	3 J	5 U	5 U
Chloroform.....	3 J	5 U	5 U	5 U
1,2-Dichloroethane.....	5 U	5 U	5 U	5 U
2-Butanone.....	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane.....	1 J	5 U	5 U	5 U
Carbon Tetrachloride.....	9	5 U	5 U	5 U
Vinyl Acetate.....	10 U	10 U	10 U	10 U
Bromodichloromethane.....	5 U	5 U	5 U	5 U
1,2-Dichloropropane.....	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
Trichloroethene.....	2 J	5 U	5 U	5 U
Dibromochloromethane.....	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane.....	5 U	5 U	5 U	5 U
Benzene.....	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
2-Chloroethylvinylether.....	10 U	10 U	10 U	10 U
Bromoform.....	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone.....	10 U	10 U	10 U	10 U
2-Hexanone.....	10 U	10 U	10 U	10 U
Tetrachloroethene.....	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane.....	5 U	5 U	5 U	5 U
Toluene.....	5 U	5 U	5 U	5 U
Chlorobenzene.....	5 U	5 U	5 U	5 U
Ethylbenzene.....	5 U	5 U	5 U	5 U
Styrene.....	5 U	5 U	5 U	5 U
Total Xylenes.....	5 U	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-029-001	8608-029-007	8608-029-013	8608-029-019
Customer ID:	SWA1088600	SWA2088600	SWA3088600	SWA4088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Toluene-d8:	100 %	100 %	97 %	104 %
Bromofluorobenzene:	95 %	93 %	90 %	100 %
1,2-Dichloroethane-d4:	94 %	93 %	92 %	93 %

Analytes

Chloromethane	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U
Methylene Chloride	1	J	2	J	4	J	5	U
Acetone	3	B	3	B	4	B	7	B
Carbon Disulfide	5	U	5	U	5	U	5	U
1,1-Dichloroethene	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U
Trans-1,2-Dichloroethene	5	U	5	U	5	U	5	U
Chloroform	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U
2-Butanone	10	U	5	J	10	U	10	U
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U
Carbon Tetrachloride	5	U	5	U	5	U	5	U
Vinyl Acetate	10	U	10	U	10	U	10	U
Bromodichloromethane	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U
Trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Trichloroethene	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U
Benzene	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U
2-Chloroethylvinylether	10	U	10	U	10	U	10	U
Bromoform	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	3	J	10	U	10	U	10	U
2-Hexanone	1	J	10	U	10	U	10	U
Tetrachloroethene	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U
Toluene	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U
Styrene	5	U	5	U	5	U	5	U
Total Xylenes	5	U	5	U	5	U	5	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-033-001	8608-033-006	8608-033-011	8608-033-016
Customer ID:	SWB1088600	SWB2088600	SWB3088600	SWB4088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Toluene-d8:	99 %	99 %	98 %	98 %
Bromofluorobenzene:	100 %	100 %	100 %	100 %
1,2-Dichloroethane-d4:	93 %	93 %	91 %	93 %

Analytes

Chloromethane.....	10 U	10 U	10 U	10 U
Bromomethane.....	10 U	10 U	10 U	10 U
Vinyl Chloride.....	10 U	10 U	10 U	10 U
Chloroethane.....	10 U	10 U	10 U	10 U
Methylene Chloride.....	5.5 U	79	3 J	340
Acetone.....	10	10 U	10 U	10 U
Carbon Disulfide.....	5 U	5 U	5 U	5 U
1,1-Dichloroethene.....	5 U	5 U	5 U	5 U
1,1-Dichloroethane.....	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene.....	5 U	5 U	5 U	5 U
Chloroform.....	5 U	5 U	5 U	5 U
1,2-Dichloroethane.....	5 U	5 U	5 U	5 U
2-Butanone.....	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane.....	5 U	5 U	5 U	5 U
Carbon Tetrachloride.....	5 U	5 U	5 U	5 U
Vinyl Acetate.....	10 U	10 U	10 U	10 U
Bromodichloromethane.....	5 U	5 U	5 U	5 U
1,2-Dichloropropane.....	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
Trichloroethene.....	5 U	5 U	5 U	7
Dibromochloromethane.....	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane.....	5 U	5 U	5 U	5 U
Benzene.....	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
2-Chloroethylvinylether.....	10 U	10 U	10 U	10 U
Bromoform.....	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone.....	10 U	10 U	10 U	10 U
2-Hexanone.....	10 U	10 U	10 U	10 U
Tetrachloroethene.....	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane.....	5 U	5 U	5 U	5 U
Toluene.....	5 U	5 U	5 U	5 U
Chlorobenzene.....	5 U	5 U	5 U	5 U
Ethylbenzene.....	5 U	5 U	5 U	5 U
Styrene.....	5 U	5 U	5 U	5 U
Total Xylenes.....	5 U	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-036-037
Customer ID:	SWB5088600
Matrix:	Water
Units:	UG/L
Dilution Factor:	1

Surrogate Recovery

Toluene-d8:	101 %
Bromofluorobenzene:	101 %
1,2-Dichloroethane-d4:	99 %

Analytes

Chloromethane	10	U
Bromomethane	10	U
Vinyl Chloride	10	U
Chloroethane	10	U
Methylene Chloride	5	U
Acetone	10	U
Carbon Disulfide	5	U
1,1-Dichloroethene	5	U
1,1-Dichloroethane	5	U
Trans-1,2-Dichloroethene	5	U
Chloroform	5	U
1,2-Dichloroethane	5	U
2-Butanone	10	U
1,1,1-Trichloroethane	5	U
Carbon Tetrachloride	5	U
Vinyl Acetate	10	U
Bromodichloromethane	5	U
1,2-Dichloropropane	5	U
Trans-1,3-Dichloropropene	5	U
Trichloroethene	5	U
Dibromochloromethane	5	U
1,1,2-Trichloroethane	5	U
Benzene	5	U
cis-1,3-Dichloropropene	5	U
2-Chloroethylvinylether	10	U
Bromoform	5	U
4-Methyl-2-pentanone	10	U
2-Hexanone	10	U
Tetrachloroethene	5	U
1,1,2,2-Tetrachloroethane	5	U
Toluene	5	U
Chlorobenzene	5	U
Ethylbenzene	5	U
Styrene	5	U
Total Xylenes	5	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SEMI-VOLATILES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-064-004	SW03088600	
8608-073-002	SW18088600	
8608-065-002	SW21088600	
8608-065-004	SW23088600	
8608-065-005	SW24088600	
8608-065-006	SW25088600	
8608-055-001	SWA1088600	
8608-055-002	SWA2088600	
8608-055-003	SWA3088600	
8608-055-004	SWA4088600	
8608-057-006	SWB1088600	
8608-057-001	SWB2088600	
8608-057-002	SWB3088600	
8608-057-003	SWB4088600	
8608-058-002	SWB5088600	

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-064-004	8608-073-002	8608-065-002	8608-065-004
Customer ID:	SW03088600	SW18088600	SW21088600	SW23088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

2-Fluorophenol:	38 %	37 %	43 %	36 %
Phenol-d5:	26 %	29 %	30 %	32 %
2,4,6-Br3-Phenol:	84 %	74 %	83 %	68 %
Nitrobenzene-d5:	34 %	42 %	44 %	40 %
2-Fluorobiphenyl:	46 %	66 %	50 %	64 %
p-Terphenyl-d14:	56 %	50 %	64 %	60 %

Analytes

Phenol	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U
Benzyl Alcohol	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U
Hexachlororbutadiene	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-064-004	8608-073-002	8608-065-002	8608-065-004
Customer ID:	SW03088600	SW18088600	SW21088600	SW23088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Analytes

3-Nitroaniline	50	U	50	U	50	U	50	U
Acenaphthene	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	50	U	50	U	50	U	50	U
4-Nitrophenol	50	U	50	U	50	U	50	U
Dibenzofuran	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U
4-Nitroaniline	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	U	50	U	50	U	50	U
N-Nitrosodiphenylamine	7	JB	6	JB	6	JB	11	B
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U
Pentachlorophenol	50	U	50	U	50	U	50	U
Phenanthrene	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U
di-n-Butyl Phthalate	10	U	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	10	U
Butyl Benzyl Phthalate	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U
Benzo(a)Anthracene	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)Phthalate	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U
di-n-Octyl Phthalate	10	U	10	U	10	U	10	U
Benzo(b)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(a)Pyrene	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)Pyrene	10	U	10	U	10	U	10	U
Dibenz(a,h)Anthracene	10	U	10	U	10	U	10	U
Benzo(g,h,i)Perylene	10	U	10	U	10	U	10	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-065-005	8608-065-006	8608-055-001	8608-055-002
Customer ID:	SW24088600	SW25088600	SWA1088600	SWA2088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

2-Fluorophenol:	42 %	34 %	26 %	38 %
Phenol-d5:	34 %	24 %	15 %	26 %
2,4,6-Br3-Phenol:	69 %	64 %	66 %	66 %
Nitrobenzene-d5:	48 %	20 %	28 %	32 %
2-Fluorobiphenyl:	62 %	44 %	38 %	36 %
p-Terphenyl-d14:	54 %	52 %	58 %	21 %

Analytes

Phenol	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U
Benzyl Alcohol	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U
Hexachlororbutadiene	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-065-005	8608-065-006	8608-055-001	8608-055-002
Customer ID:	SW24088600	SW25088600	SWA1088600	SWA2088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Analytes

3-Nitroaniline	50	U	50	U	50	U	50	U
Acenaphthene	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	50	U	50	U	50	U	50	U
4-Nitrophenol	50	U	50	U	50	U	50	U
Dibenzofuran	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U
4-Nitroaniline	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	U	50	U	50	U	50	U
N-Nitrosodiphenylamine	9	JB	45	B	300		10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U
Pentachlorophenol	50	U	50	U	50	U	50	U
Phenanthrene	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U
di-n-Butyl Phthalate	10	U	2	J	5		10	U
Fluoranthene	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	10	U
Butyl Benzyl Phthalate	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U
Benzo(a)Anthracene	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)Phthalate	10	U	10	U	1.6	JB	3.0	J
Chrysene	10	U	10	U	1.5	J	10	U
di-n-Octyl Phthalate	10	U	10	U	10	U	10	U
Benzo(b)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(a)Pyrene	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)Pyrene	10	U	10	U	10	U	10	U
Dibenz(a,h)Anthracene	10	U	10	U	10	U	10	U
Benzo(g,h,i)Perylene	10	U	10	U	10	U	10	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-055-003	8608-055-004	8608-057-006	8608-057-001
Customer ID:	SWA3088600	SWA4088600	SWB1088600	SWB2088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

2-Fluorophenol:	37 %	34 %	36 %	33 %
Phenol-d5:	25 %	22 %	26 %	20 %
2,4,6-Br3-Phenol:	72 %	77 %	64 %	69 %
Nitrobenzene-d5:	30 %	22 %	16 %	24 %
2-Fluorobiphenyl:	42 %	58 %	52 %	52 %
p-Terphenyl-d14:	44 %	55 %	54 %	58 %

Analytes

Phenol	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U
Benzyl Alcohol	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U	50 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U
Hexachlororbutadiene	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-055-003	8608-055-004	8608-057-006	8608-057-001
Customer ID:	SWA3088600	SWA4088600	SWB1088600	SWB2088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Analytes

3-Nitroaniline	50	U	50	U	50	U	50	U
Acenaphthene	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	50	U	50	U	50	U	50	U
4-Nitrophenol	50	U	50	U	50	U	50	U
Dibenzofuran	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U
4-Nitroaniline	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	U	50	U	50	U	50	U
N-Nitrosodiphenylamine	10	U	300		173		249	
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U
Pentachlorophenol	50	U	50	U	50	U	50	U
Phenanthrene	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U
di-n-Butyl Phthalate	10	U	4.0	J	7	J	5	J
Fluoranthene	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	10	U
Butyl Benzyl Phthalate	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U
Benzo(a)Anthracene	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)Phthalate	2.0	J	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U
di-n-Octyl Phthalate	10	U	10	U	1	J	2	J
Benzo(b)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(k)Fluoranthene	10	U	10	U	10	U	10	U
Benzo(a)Pyrene	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)Pyrene	10	U	10	U	10	U	10	U
Dibenz(a,h)Anthracene	10	U	10	U	10	U	10	U
Benzo(g,h,i)Perylene	10	U	10	U	10	U	10	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-057-002	8608-057-003	8608-058-002
Customer ID:	SWB3088600	SWB4088600	SWB5088600
Matrix:	Water	Water	Water
Units:	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1

Surrogate Recovery

2-Fluorophenol:	35 %	37 %	32 %
Phenol-d5:	28 %	26 %	25 %
2,4,6-Br3-Phenol:	55 %	54 %	64 %
Nitrobenzene-d5:	42 %	64 %	38 %
2-Fluorobiphenyl:	62 %	74 %	70 %
p-Terphenyl-d14:	52 %	62 %	68 %

Analytes

Phenol	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U
Benzyl Alcohol	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U
bis(2-Chloroisopropyl)Ether	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U
Benzoic Acid	50 U	50 U	50 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U
Hexachlororbutadiene	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U
2,4,5-Trichlorophenol	50 U	50 U	50 U
2-Chloronaphthalene	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U
Dimethyl Phthalate	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-057-002	8608-057-003	8608-058-002
Customer ID:	SWB3088600	SWB4088600	SWB5088600
Matrix:	Water	Water	Water
Units:	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1

Analytes

3-Nitroaniline	50	U	50	U	50	U
Acenaphthene	10	U	10	U	10	U
2,4-Dinitrophenol	50	U	50	U	50	U
4-Nitrophenol	50	U	50	U	50	U
Dibenzofuran	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U
4-Nitroaniline	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	U	50	U	50	U
N-Nitrosodiphenylamine	11	B	11	B	11	
4-Bromophenyl-phenylether	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U
Pentachlorophenol	50	U	50	U	50	U
Phenanthrene	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U
di-n-Butyl Phthalate	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U
Butyl Benzyl Phthalate	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	U	20	U	20	U
Benzo(a)Anthracene	10	U	10	U	10	U
bis(2-Ethylhexyl)Phthalate	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U
di-n-Octyl Phthalate	10	U	10	U	10	U
Benzo(b)Fluoranthene	10	U	10	U	10	U
Benzo(k)Fluoranthene	10	U	10	U	10	U
Benzo(a)Pyrene	10	U	10	U	10	U
Indeno(1,2,3-cd)Pyrene	10	U	10	U	10	U
Dibenz(a,h)Anthracene	10	U	10	U	10	U
Benzo(g,h,i)Perylene	10	U	10	U	10	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

PESTICIDE/PCBs

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-064-004	SW03088600	
8608-672-007	SW17088600	
8608-073-002	SW18088600	
8608-065-002	SW21088600	
8608-065-004	SW23088600	
8608-065-005	SW24088600	
8608-065-006	SW25088600	
8608-055-001	SWA1088600	
8608-055-002	SWA2088600	
8608-055-003	SWA3088600	
8608-055-004	SWA4088600	
8608-057-006	SWB1088600	
8608-057-001	SWB2088600	
8608-057-002	SWB3088600	
8608-057-003	SWB4088600	
8608-058-002	SWB5088600	

SOLAR PONDS SURFACE WATER SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	8608-064-004	8608-672-007	8608-073-002	8608-065-002
Customer ID:	SW03088600	SW17088600	SW18088600	SW21088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	2	1	1

Surrogate Recovery

Di-n-butylchlorendate:	97 %	70 %	89 %	92 %

Analytes

Alpha-BHC	0.05 U	0.1 U	0.05 U	0.05 U
Beta-BHC	0.05 U	0.1 U	0.05 U	0.05 U
Delta-BHC	0.05 U	0.1 U	0.05 U	0.05 U
Gamma-BHC (Lindane)	0.05 U	0.1 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.1 U	0.05 U	0.05 U
Aldrin	0.05 U	0.1 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.1 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.1 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.2 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.2 U	0.1 U	0.1 U
Endrin	0.1 U	0.2 U	0.1 U	0.1 U
Endosulfan II	0.1 U	0.2 U	0.1 U	0.1 U
4,4'-DDD	0.1 U	0.2 U	0.1 U	0.1 U
Endosulfan Sulfate	0.1 U	0.2 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.2 U	0.1 U	0.1 U
Methoxychlor	0.5 U	1 U	0.5 U	0.5 U
Endrin Ketone	0.1 U	0.2 U	0.1 U	0.1 U
Chlordane	0.5 U	1 U	0.5 U	0.5 U
Toxaphene	1.0 U	2 U	1.0 U	1.0 U
Aroclor-1016	0.5 U	1 U	0.5 U	0.5 U
Aroclor-1221	0.5 U	1 U	0.5 U	0.5 U
Aroclor-1232	0.5 U	1 U	0.5 U	0.5 U
Aroclor-1242	0.5 U	1 U	0.5 U	0.5 U
Aroclor-1248	0.5 U	1 U	0.5 U	0.5 U
Aroclor-1254	1.0 U	2 U	1.0 U	1.0 U
Aroclor-1260	1.0 U	2 U	1.0 U	1.0 U

SOLAR PONDS SURFACE WATER SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-065-004	8608-065-005	8608-065-006	8608-055-001
Customer ID:	SW23088600	SW24088600	SW25088600	SWA1088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Di-n-butylchlorendate:	92 %	95 %	94 %	70 %

Analytes

Alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U
Endrin Ketone	0.1 U	0.1 U	0.1 U	0.1 U
Chlordane	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene	1.0 U	1.0 U	1.0 U	1 U
Aroclor-1016	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1221	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1232	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1242	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1248	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1254	1.0 U	1.0 U	1.0 U	1 U
Aroclor-1260	1.0 U	1.0 U	1.0 U	1 U

SOLAR PONDS SURFACE WATER SAMPLES
PESTICIDES/PCB
CLP LIST

Sample Information

RFW Batch ID:	8608-055-002	8608-055-003	8608-055-004	8608-057-006
Customer ID:	SWA2088600	SWA3088600	SWA4088600	SWB1088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Di-n-butylchlorendate:	66 %	64 %	82 %	78 %

Analytes

Alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U
Beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U
Delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U
Gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U
Aldrin	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor Epoxide	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U
Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U
Endrin	0.1	U	0.1	U	0.1	U	0.1	U
Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U
Endosulfan Sulfate	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U
Methoxychlor	0.5	U	0.5	U	0.5	U	0.5	U
Endrin Ketone	0.1	U	0.1	U	0.1	U	0.1	U
Chlordane	0.5	U	0.5	U	0.5	U	0.5	U
Toxaphene	1	U	1	U	1	U	1.0	U
Aroclor-1016	0.5	U	0.5	U	0.5	U	0.5	U
Aroclor-1221	0.5	U	0.5	U	0.5	U	0.5	U
Aroclor-1232	0.5	U	0.5	U	0.5	U	0.5	U
Aroclor-1242	0.5	U	0.5	U	0.5	U	0.5	U
Aroclor-1248	0.5	U	0.5	U	0.5	U	0.5	U
Aroclor-1254	1	U	1	U	1	U	1.0	U
Aroclor-1260	1	U	1	U	1	U	1.0	U

SOLAR PONDS SURFACE WATER SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-057-001	8608-057-002	8608-057-003	8608-058-002
Customer ID:	SWB2088600	SWB3088600	SWB4088600	SWB5088600
Matrix:	Water	Water	Water	Water
Units:	UG/L	UG/L	UG/L	UG/L
Dilution Factor:	1	1	1	1

Surrogate Recovery

Di-n-butylchlorendate:	90 %	95 %	96 %	93 %

Analytes

Alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U
Gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U
Endrin Ketone	0.1 U	0.1 U	0.1 U	0.1 U
Chlordane	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1016	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1221	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1232	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1242	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1248	0.5 U	0.5 U	0.5 U	0.5 U
Aroclor-1254	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	1.0 U	1.0 U	1.0 U	1.0 U

RADIONUCLIDES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0387-881-126	SW-59-07-21-87	
0387-881-127	SW-60-07-21-87	
0387-881-128	SW-61-07-22-87	
1000-000-369	SW03088600	22548-8-6
1000-000-371	SW17088600	22509-14-12
1000-000-373	SW18088600	22581-6-2
1000-000-375	SW21088600	22542-7-2
1000-000-377	SW23088600	22542-7-4
1000-000-378	SW24088600	22542-7-5
1000-000-379	SW25088600	22542-7-6
1000-000-391	SWA1088600	22511-10-4
1000-000-393	SWA2088600	22511-10-6
1000-000-394	SWA3088600	22511-10-7
1000-000-395	SWA4088600	22511-10-8
1000-000-396	SWB1088600	22523-6-6
1000-000-398	SWB2088600	22523-6-3
1000-000-399	SWB3088600	22523-6-5
1000-000-400	SWB4088600	22523-6-1
1000-000-401	SWB5088600	22528-5-2

SOLAR PONDS SURFACE WATER SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	0387-881-126	0387-881-127	0387-881-128
Customer ID:	SW-59-07-21-87	SW-60-07-21-87	SW-61-07-22-87
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	26 +/- 6	pci/l	8 +/- 18	pci/l	17 +/- 12	pci/l
Gross Beta	28 +/- 6	pci/l	33 +/- 24	pci/l	41 +/- 14	pci/l
Uranium 233, 234	3.1 +/- 1.2	pci/l	1.7 +/- 1.0	pci/l	.85 +/- .89	pci/l
Uranium 235	.01 +/- .45	pci/l	.37 +/- .44	pci/l	.21 +/- .40	pci/l
Uranium 238	5.6 +/- 1.4	pci/l	2.2 +/- 0.8	pci/l	.93 +/- .75	pci/l
Strontium 89, 90	1.0 +/-	pci/l	<1.0 +/-	pci/l	<1.0 +/-	pci/l
Plutonium 239, 240	0.0 +/- .93	pci/l	0.0 +/- 1.1	pci/l	0.0 +/- .82	pci/l
Americium 241	0.03 +/- 1.4	pci/l	0.0 +/- 1.2	pci/l	0.0 +/- 1.2	pci/l
Cesium 137	<1.0 +/-	pci/l	<1.0 +/-	pci/l	<1.0 +/-	pci/l
Tritium	<110 +/-	pci/l	<110 +/-	pci/l	<110 +/-	pci/l

Sample Information

RFW Batch ID:	1000-000-369	1000-000-371	1000-000-373
Customer ID:	SW03088600	SW17088600	SW18088600
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	2 +/- 3	pci/l	6 +/- 10	pci/l	4 +/- 5	pci/l
Gross Beta	3 +/- 3	pci/l	4 +/- 5	pci/l	2 +/- 4	pci/l
Uranium 233, 234	0.63 +/- 0.22	pci/l	3.3 +/- 0.4	pci/l	1.9 +/- 0.5	pci/l
Uranium 235	NR		NR		NR	
Uranium 238	0.60 +/- 0.20	pci/l	2.9 +/- 0.4	pci/l	1.4 +/- 0.5	pci/l
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	-0.04 +/- 0.17	pci/l	0.00 +/- 0.03	pci/l	-0.03 +/- 0.05	pci/l
Americium 241	0.02 +/- 0.03	pci/l	0.00 +/- 0.02	pci/l	0.04 +/- 0.04	pci/l
Cesium 137	NR		NR		NR	
Tritium	-0.09 +/- 0.24	pci/l	0.19 +/- 0.22	pci/l	0.07 +/- 0.21	pci/l

SOLAR PONDS SURFACE WATER SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	1000-000-375	1000-000-377	1000-000-378
Customer ID:	SW21088600	SW23088600	SW24088600
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	9 +/- 7	pci/l	0 +/- 4	pci/l	5 +/- 4	pci/l
Gross Beta	2 +/- 5	pci/l	5 +/- 3	pci/l	3 +/- 3	pci/l
Uranium 233, 234	3.2 +/- 0.4	pci/l	1.6 +/- 0.3	pci/l	2.1 +/- 0.4	pci/l
Uranium 235	NR		NR		NR	
Uranium 238	3.4 +/- 0.4	pci/l	1.6 +/- 0.3	pci/l	2.2 +/- 0.4	pci/l
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	0.03 +/- 0.05	pci/l	0.03 +/- 0.05	pci/l	-0.02 +/- 0.09	pci/l
Americium 241	0.01 +/- 0.03	pci/l	0.00 +/- 0.02	pci/l	0.01 +/- 0.02	pci/l
Cesium 137	NR		NR		NR	
Tritium	0.07 +/- 0.24	pci/l	0.05 +/- 0.24	pci/l	-0.04 +/- 0.24	pci/l

Sample Information

RFW Batch ID:	1000-000-379	1000-000-391	1000-000-393
Customer ID:	SW25088600	SWA1088600	SWA2088600
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	6 +/- 5	pci/l	10 +/- 9	pci/l	7 +/- 14	pci/l
Gross Beta	9 +/- 4	pci/l	12 +/- 5	pci/l	23 +/- 8	pci/l
Uranium 233, 234	1.8 +/- 0.3	pci/l	1.4 +/- 0.3	pci/l	6.4 +/- 0.7	pci/l
Uranium 235	NR		NR		NR	
Uranium 238	1.5 +/- 0.3	pci/l	1.3 +/- 0.2	pci/l	5.8 +/- 0.7	pci/l
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	0.05 +/- 0.07	pci/l	0.24 +/- 0.14	pci/l	0.17 +/- 0.06	pci/l
Americium 241	-0.01 +/- 0.05	pci/l	0.02 +/- 0.03	pci/l	0.05 +/- 0.04	pci/l
Cesium 137	NR		NR		NR	
Tritium	-0.04 +/- 0.24	pci/l	0.16 +/- 0.22	pci/l	0.09 +/- 0.22	pci/l

SOLAR PONDS SURFACE WATER SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	1000-000-394	1000-000-395	1000-000-396
Customer ID:	SWA3088600	SWA4088600	SWB1088600
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	18 +/- 10	pci/l	2 +/- 2	pci/l	65 +/- 12	pci/l
Gross Beta	14 +/- 5	pci/l	5 +/- 2	pci/l	26 +/- 5	pci/l
Uranium 233, 234	3.0 +/- 0.4	pci/l	0.81 +/- 0.19	pci/l	6.4 +/- 0.6	pci/l
Uranium 235	NR		NR		NR	
Uranium 238	2.1 +/- 0.3	pci/l	0.49 +/- 0.16	pci/l	9.6 +/- 0.8	pci/l
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	0.03 +/- 0.06	pci/l	0.00 +/- 0.07	pci/l	4.2 +/- 0.6	pci/l
Americium 241	0.01 +/- 0.02	pci/l	0.05 +/- 0.04	pci/l	-0.01 +/- 0.04	pci/l
Cesium 137	NR		NR		NR	
Tritium	0.03 +/- 0.22	pci/l	0.10 +/- 0.22	pci/l	0.01 +/- 0.22	pci/l

Sample Information

RFW Batch ID:	1000-000-398	1000-000-399	1000-000-400
Customer ID:	SWB2088600	SWB3088600	SWB4088600
Matrix:	Water	Water	Water

Radio Chemistry

Gross Alpha	9 +/- 5	pci/l	0 +/- 2	pci/l	7 +/- 5	pci/l
Gross Beta	6 +/- 4	pci/l	11 +/- 3	pci/l	4 +/- 3	pci/l
Uranium 233, 234	0.50 +/- 0.16	pci/l	0.12 +/- 0.10	pci/l	1.5 +/- 0.3	pci/l
Uranium 235	NR		NR		NR	
Uranium 238	0.65 +/- 0.18	pci/l	0.07 +/- 0.07	pci/l	2.1 +/- 0.3	pci/l
Strontium 89, 90	NR		NR		NR	
Plutonium 239, 240	0.37 +/- 0.19	pci/l	0.08 +/- 0.08	pci/l	0.01 +/- 0.04	pci/l
Americium 241	0.15 +/- 0.08	pci/l	-0.01 +/- 0.04	pci/l	-0.02 +/- 0.04	pci/l
Cesium 137	NR		NR		NR	
Tritium	0.01 +/- 0.22	pci/l	-0.12 +/- 0.22	pci/l	0.21 +/- 0.22	pci/l

SOLAR PONDS SURFACE WATER SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID: 1000-000-401
Customer ID: SWB5088600
Matrix: Water

Radio Chemistry

Gross Alpha.....	1 +/- 3	pci/l
Gross Beta.....	5 +/- 3	pci/l
Uranium 233, 234.....	2.6 +/- 0.4	pci/l
Uranium 235.....	NR	
Uranium 238.....	2.0 +/- 0.3	pci/l
Strontium 89, 90.....	NR	
Plutonium 239, 240.....	0.00 +/- 0.04	pci/l
Americium 241.....	-0.02 +/- 0.04	pci/l
Cesium 137.....	NR	
Tritium.....	0.19 +/- 0.22	pci/l

INORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0387-881-011	SW-59-07-21-87	
0387-881-012	SW-60-07-21-87	
0387-881-013	SW-61-07-22-87	
8608-044-023	SW03088600	
8608-024-004	SW17088600	
8608-056-008	SW18088600	
8608-041-028	SW21088600	
8608-041-038	SW23088600	
8608-041-043	SW24088600	
8608-041-048	SW25088600	
8608-029-004	SWA1088600	
8608-029-010	SWA2088600	
8608-029-022	SWA4088600	
8608-033-003	SWB1088600	
8608-033-008	SWB2088600	
8608-033-013	SWB3088600	
8608-033-018	SWB4088600	
8608-036-040	SWB5088600	

SOLAR PONDS SURFACE WATER SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-011			0387-881-012			0387-881-013		
Customer ID:	SW-59-07-21-87			SW-60-07-21-87			SW-61-07-22-87		
Matrix:	Water			Water			Water		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3	335		mg/l	290		mg/l	83.3		mg/l
Chloride	39.0		mg/l	44.0		mg/l	12.0		mg/l
Sulfate	24.5		mg/l	45.0		mg/l	31.1		mg/l
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	3.80		mg/l	4.5		mg/l	0.25		mg/l
Sulfide									
Phosphate									
Cyanide, Total	1.0	U	mg/l	1.0	U	mg/l	1.0	U	mg/l
Hexavalent Chromium (Cr+6)	1.0	U	mg/l	1.0	U	mg/l	1.0	U	mg/l
Total Dissolved Solids	524		mg/l	482		mg/l	156		mg/l
Total Suspended Solids	8		mg/l	1	U	mg/l	8		mg/l
% Solids									

Sample Information

RFW Batch ID:	8608-044-023			8608-024-004			8608-056-008		
Customer ID:	SW03088600			SW17088600			SW18088600		
Matrix:	Water			Water			Water		
Inorganics									
CO3= as CaCO3									
HCO3- as CaCO3									
Chloride	15		mg/l	51		mg/l	29		mg/l
Sulfate	39		mg/l	94		mg/l	58		mg/l
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	5.0	U	mg/l	17.2		mg/l	5.0	U	mg/l
Sulfide									
Phosphate									
Cyanide, Total	0.005	U	mg/l	0.0010	U	mg/l	0.005	U	mg/l
Hexavalent Chromium (Cr+6)	10	U	mg/l	10	U	mg/l	10	U	mg/l
Total Dissolved Solids	180		mg/l	530		mg/l	439		mg/l
Total Suspended Solids									
% Solids									

SOLAR PONDS SURFACE WATER SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-041-028			8608-041-038			8608-041-043				
Customer ID:	SW21088600			SW23088600			SW24088600				
Matrix:	Water			Water			Water				
Inorganics											
CO3= as CaCO3											
HCO3- as CaCO3											
Chloride	47		mg/l	27		mg/l	29		mg/l		
Sulfate	50		mg/l	50		mg/l	44		mg/l		
pH											
Fluoride											
Nitrate-Nitrite-Nitrogen	5.0		mg/l	7.5		mg/l	7.0		mg/l		
Sulfide											
Phosphate											
Cyanide, Total	0.005	U	mg/l	0.005	U	mg/l	0.005	U	mg/l		
Hexavalent Chromium (Cr+6)	10	U	mg/l	10	U	mg/l	10	U	mg/l		
Total Dissolved Solids	420		mg/l	290		mg/l	270		mg/l		
Total Suspended Solids											
% Solids											

Sample Information

RFW Batch ID:	8608-041-048			8608-029-004			8608-029-010				
Customer ID:	SW25088600			SWA1088600			SWA2088600				
Matrix:	Water			Water			Water				
Inorganics											
CO3= as CaCO3											
HCO3- as CaCO3											
Chloride	29		mg/l	82		mg/l	156		mg/l		
Sulfate	51		mg/l	53		mg/l	212		mg/l		
pH											
Fluoride											
Nitrate-Nitrite-Nitrogen	5.0	U	mg/l	5.0	U	mg/l	5.0	U	mg/l		
Sulfide											
Phosphate											
Cyanide, Total	0.005	U	mg/l	0.001	U	mg/l	0.0013		mg/l		
Hexavalent Chromium (Cr+6)	10	U	mg/l	10	U	mg/l	10	U	mg/l		
Total Dissolved Solids	260		mg/l	534		mg/l	1070		mg/l		
Total Suspended Solids											
% Solids											

SOLAR PONDS SURFACE WATER SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-029-022			8608-033-003				8608-033-008			
Customer ID:	SWA4088600			SWB1088600				SWB2088600			
Matrix:	Water			Water				Water			
Inorganics											
CO3= as CaCO3											
HCO3- as CaCO3											
Chloride	21		mg/l	15		mg/l		64		mg/l	
Sulfate	30		mg/l	41		mg/l		16		mg/l	
pH											
Fluoride											
Nitrate-Nitrite-Nitrogen	5.0	U	mg/l	5.0	U	mg/l		5.0	U	mg/l	
Sulfide											
Phosphate											
Cyanide, Total	0.001	U	mg/l	0.005	U	mg/l		0.005	U	mg/l	
Hexavalent Chromium (Cr+6)	10	U	mg/l	10	U	mg/l		10	U	mg/l	
Total Dissolved Solids	279		mg/l	230		mg/l		270		mg/l	
Total Suspended Solids											
% Solids											

Sample Information

RFW Batch ID:	8608-033-013			8608-033-018				8608-036-040			
Customer ID:	SWB3088600			SWB4088600				SWB5088600			
Matrix:	Water			Water				Water			
Inorganics											
CO3= as CaCO3											
HCO3- as CaCO3											
Chloride	26		mg/l	31		mg/l		31		mg/l	
Sulfate	48		mg/l	43		mg/l		56		mg/l	
pH											
Fluoride											
Nitrate-Nitrite-Nitrogen	13.4		mg/l	5.0	U	mg/l		5.0	U	mg/l	
Sulfide											
Phosphate											
Cyanide, Total	0.025		mg/l	0.005	U	mg/l		0.005	U	mg/l	
Hexavalent Chromium (Cr+6)	10	U	mg/l	10	U	mg/l		10	U	mg/l	
Total Dissolved Solids	220		mg/l	220		mg/l		28		mg/l	
Total Suspended Solids											
% Solids											

METALS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
0387-881-011	SW-59-07-21-87	
0387-881-013	SW-61-07-22-87	
8608-044-022	SW03088600	
8608-024-003	SW17088600	
8608-056-007	SW18088600	
8608-041-027	SW21088600	
8608-041-037	SW23088600	
8608-041-042	SW24088600	
8608-041-047	SW25088600	
8608-029-003	SWA1088600	
8608-029-009	SWA2088600	
8608-029-021	SWA4088600	
8608-033-002	SWB1088600	
8608-033-007	SWB2088600	
8608-033-012	SWB3088600	
8608-033-017	SWB4088600	
8608-036-039	SWB5088600	

SOLAR PONDS SURFACE WATER SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	0387-881-011	0387-881-013	8608-044-022	8608-024-003
Customer ID:	SW-59-07-21-87	SW-61-07-22-87	SW03088600	SW17088600
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L
Metals				
Silver (Ag), total	0.01 U	0.01 U	0.010 U	0.010 U
Aluminum (Al), total	0.2 U	0.2 U	0.100 U	0.100 U
Arsenic (As), total			0.002 U	0.001 U
Barium (Ba), total	0.2 U	0.2 U	0.100 U	0.340
Beryllium (Be), total			0.090	0.005 U
Calcium (Ca), total	122	30.1	47.5	85.5
Cadmium (Cd), total			0.005 U	0.005 U
Cobalt (Co), total	0.05 U	0.05 U	0.050 U	0.050 U
Chromium (Cr), total	0.01 U	0.01 U	0.010 U	0.005 U
Cesium (Cs), total			0.100 U	0.100 U
Copper (Cu), total	0.025 U	0.025 U	0.030	0.020
Iron (Fe), total	0.1 U	0.18	0.075 U	0.030 U
Mercury (Hg), total			0.0002 U	0.0008
Potassium (K), total			0.100 U	26.4
Lithium (Li), total				
Magnesium (Mg), total	24.4	5.0 U	6.0	24.2
Manganese (Mn), total	0.015 U	0.047	0.020	0.660
Molybdenum(Mo), total	0.04 U	0.04 U	0.300	0.100 U
Sodium (Na), total	38.2	17.9	23.2	53.2
Nickel (Ni), total	0.04 U	0.04 U	0.040 U	0.040 U
Lead (Pb), total			0.010 U	0.005 U
Antimony (Sb), total			0.050 U	0.020 U
Selenium (Se), total			0.002 U	0.0016
Strontium (Sr), total	0.73	0.02 U	0.360	0.760
Thallium (Tl), total			0.010 U	0.029
Vanadium (V), total	0.05 U	0.05 U	0.313	0.005 U
Zinc (Zn), total	0.31	0.05	0.300	0.090

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-056-007		8608-041-027		8608-041-037		8608-041-042	
Customer ID:	SW18088600		SW21088600		SW23088600		SW24088600	
Matrix:	Water		Water		Water		Water	
Units:	UG/L		MG/L		MG/L		MG/L	
Metals								
Silver (Ag), total	0.010	U	0.010	U	0.010	U	0.010	U
Aluminum (Al), total	0.100	U	0.100	U	0.100	U	0.100	U
Arsenic (As), total	0.002	U	0.002	U	0.002	U	0.002	U
Barium (Ba), total	0.100	U	0.100	U	0.100	U	0.100	U
Beryllium (Be), total	0.005	U	0.170		0.130		0.140	
Calcium (Ca), total	130		173		78.8		76	
Cadmium (Cd), total	0.005	U	0.005	U	0.005	U	0.005	U
Cobalt (Co), total	0.050	U	0.050	U	0.050	U	0.050	
Chromium (Cr), total	0.010	U	0.010	U	0.010	U	0.010	U
Cesium (Cs), total	0.100	U	0.100	U	0.100	U	0.100	U
Copper (Cu), total	0.020	U	0.020	U	0.020	U	0.020	U
Iron (Fe), total	2.17		0.075	U	0.600		0.200	
Mercury (Hg), total	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Potassium (K), total	3.1		0.100	U	0.100	U	0.200	
Lithium (Li), total								
Magnesium (Mg), total	29		24		18.1		16	
Manganese (Mn), total	0.410		0.060		0.020		0.030	
Molybdenum(Mo), total	0.100	U	0.300		0.400		0.500	
Sodium (Na), total	37		31.1		235		32.5	
Nickel (Ni), total	0.040	U	0.040	U	0.040	U	0.040	U
Lead (Pb), total	0.005	U	0.010	U	0.010	U	0.010	U
Antimony (Sb), total	0.050	U	0.050	U	0.050	U	0.050	U
Selenium (Se), total	0.002	U	0.002	U	0.002	U	0.002	U
Strontium (Sr), total	0.640		0.540		0.310		0.340	
Thallium (Tl), total	0.010	U	0.010	U	0.010	U	0.010	U
Vanadium (V), total	0.050	U	0.050	U	0.050	U	0.050	U
Zinc (Zn), total	0.020	U	0.128		0.020	U	0.027	

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-041-047	8608-029-003	8608-029-009	8608-029-021
Customer ID:	SW25088600	SWA1088600	SWA2088600	SWA4088600
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.010 U	0.010 U	0.010 U	0.010 U
Aluminum (Al), total.....	0.100 U	0.150	0.580	0.100 U
Arsenic (As), total.....	0.002 U	0.002	0.002	0.001 U
Barium (Ba), total.....	0.100 U	0.150	0.170	0.120
Beryllium (Be), total.....	0.020	0.005 U	0.005 U	0.005 U
Calcium (Ca), total.....	70.1	26.9	86.1	16.4
Cadmium (Cd), total.....	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt (Co), total.....	0.070	0.050 U	0.050 U	0.050 U
Chromium (Cr), total.....	0.010 U	0.009	0.022	0.010
Cesium (Cs), total.....	0.100 U	0.100 U	0.100 U	0.100 U
Copper (Cu), total.....	0.020 U	0.020 U	0.020 U	0.020 U
Iron (Fe), total.....	0.075 U	0.080	0.240	0.030 U
Mercury (Hg), total.....	0.0002 U	0.0002 U	0.0014	0.0002 U
Potassium (K), total.....	0.200	36.9	72.7	15.5
Lithium (Li), total.....				
Magnesium (Mg), total.....	0.110	10.8	20.3	4.55
Manganese (Mn), total.....	0.160	0.010 U	0.080	0.020
Molybdenum(Mo), total.....	0.500	0.100 U	0.100 U	0.100 U
Sodium (Na), total.....	25.4	104	193	14.8
Nickel (Ni), total.....	0.040 U	0.040 U	0.040 U	0.040 U
Lead (Pb), total.....	0.010 U	0.005	0.005	0.008
Antimony (Sb), total.....	0.0050 U	0.020 U	0.020 U	0.020
Selenium (Se), total.....	0.002 U	0.002 U	0.002 U	0.002 U
Strontium (Sr), total.....	0.350	0.200	0.360	0.150
Thallium (Tl), total.....	0.010 U	0.010 U	0.015	0.010 U
Vanadium (V), total.....	0.050 U	0.005 U	0.005 U	0.005 U
Zinc (Zn), total.....	0.696	4.21	4.2	0.040

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-033-002	8608-033-007	8608-033-012	8608-033-017
Customer ID:	SWB1088600	SWB2088600	SWB3088600	SWB4088600
Matrix:	Water	Water	Water	Water
Units:	MG/L	MG/L	MG/L	MG/L

Metals

Silver (Ag), total.....	0.010 U	0.010 U	0.010 U	0.010 U
Aluminum (Al), total.....	0.120	0.100 U	0.110	0.100 U
Arsenic (As), total.....	0.002 U	0.002 U	0.002 U	0.002 U
Barium (Ba), total.....	0.130	0.130	0.100	0.180
Beryllium (Be), total.....	0.005 U	0.005 U	0.005 U	0.005 U
Calcium (Ca), total.....	21.5	9.510	17.9	33.2
Cadmium (Cd), total.....	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt (Co), total.....	0.050 U	0.050 U	0.050 U	0.050 U
Chromium (Cr), total.....	0.005 U	0.005 U	0.005 U	0.005 U
Cesium (Cs), total.....	0.100 U	0.100 U	0.100 U	0.100 U
Copper (Cu), total.....	0.0200 U	0.140	0.020 U	0.020 U
Iron (Fe), total.....	0.140	0.110	0.150	0.030 U
Mercury (Hg), total.....	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Potassium (K), total.....	9.45	5.51	11	9.45
Lithium (Li), total.....				
Magnesium (Mg), total.....	7.4	7.47	2.88	9.54
Manganese (Mn), total.....	0.040	0.010 U	0.010	0.070
Molybdenum(Mo), total.....	0.100 U	0.100 U	0.100 U	0.100 U
Sodium (Na), total.....	16.8	49.3	20.9	26.4
Nickel (Ni), total.....	0.040 U	0.040 U	0.040 U	0.040 U
Lead (Pb), total.....	0.010 U	0.010 U	0.010 U	0.010 U
Antimony (Sb), total.....	0.020 U	0.020 U	0.020 U	0.020 U
Selenium (Se), total.....	0.002 U	0.002 U	0.002 U	0.002 U
Strontium (Sr), total.....	0.200	0.150	0.090	0.310
Thallium (Tl), total.....	0.017	0.015	0.011	0.021
Vanadium (V), total.....	0.005 U	0.005 U	0.005 U	0.005 U
Zinc (Zn), total.....	0.020	0.110	0.580	0.360

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR PONDS SURFACE WATER SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID: 8608-036-039
Customer ID: SWB5088600
Matrix: Water
Units: MG/L

Metals

Silver	(Ag), total	0.010	U
Aluminum	(Al), total	0.100	U
Arsenic	(As), total	0.002	U
Barium	(Ba), total	0.220	
Beryllium	(Be), total	0.120	
Calcium	(Ca), total	29.5	
Cadmium	(Cd), total	0.005	U
Cobalt	(Co), total	0.080	
Chromium	(Cr), total	0.015	
Cesium	(Cs), total	0.100	U
Copper	(Cu), total	0.020	U
Iron	(Fe), total	0.170	
Mercury	(Hg), total	0.0002	U
Potassium	(K), total	0.010	U
Lithium	(Li), total		
Magnesium	(Mg), total	8.18	
Manganese	(Mn), total	0.010	J
Molybdenum	(Mo), total	0.100	U
Sodium	(Na), total	30.5	
Nickel	(Ni), total	0.040	U
Lead	(Pb), total	0.010	U
Antimony	(Sb), total	0.010	U
Selenium	(Se), total	0.002	U
Strontium	(Sr), total	0.250	
Thallium	(Tl), total	0.010	U
Vanadium	(V), total	0.050	U
Zinc	(Zn), total	0.005	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

APPENDIX C-5

SEDIMENT ANALYTICAL DATA

VOLATILE ORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-041-051	SED0308860	51
8608-024-025	SED0808860	
8608-024-028	SED0908860	28
8608-056-031	SED1008860	31
8608-027-001	SED1108860	01
8608-027-004	SED1208860	04
8608-027-010	SED1308860	10

SOLAR POND SEDIMENT SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-041-051	8608-024-025	8608-024-028	8608-056-031
Customer ID:	SED0308860	SED0808860	SED0908860	SED1008860
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1.2	1	1	1.08

Surrogate Recovery

Toluene-d8:	98 %	102 %	98 %	94 %
Bromofluorobenzene:	95 %	94 %	109 %	86 %
1,2-Dichloroethane-d4:	89 %	102 %	98 %	68 %

Analytes

Chloromethane.....	10 U	10 U	10 U	11 U
Bromomethane.....	10 U	10 U	10 U	11 U
Vinyl Chloride.....	10 U	10 U	10 U	11 U
Chloroethane.....	10 U	10 U	10 U	11 U
Methylene Chloride.....	90	2 J	1 J	31
Acetone.....	240	114	140	55 B
Carbon Disulfide.....	5 U	5 U	5 U	5 U
1,1-Dichloroethene.....	5 U	5 U	5 U	5 U
1,1-Dichloroethane.....	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene.....	5 U	5 U	5 U	5 U
Chloroform.....	5 U	5 U	5 U	5 U
1,2-Dichloroethane.....	5 U	5 U	5 U	5 U
2-Butanone.....	10 U	10 U	10 U	11 U
1,1,1-Trichloroethane.....	5 U	5 U	5 U	5 U
Carbon Tetrachloride.....	5 U	5 U	5 U	5 U
Vinyl Acetate.....	10 U	10 U	10 U	11 U
Bromodichloromethane.....	5 U	5 U	5 U	5 U
1,2-Dichloropropane.....	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
Trichloroethene.....	5 U	5 U	5 U	1 J
Dibromochloromethane.....	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane.....	5 U	5 U	5 U	5 U
Benzene.....	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene.....	5 U	5 U	5 U	5 U
2-Chloroethylvinylether.....	10 U	10 U	10 U	11 U
Bromoform.....	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone.....	10 U	10 U	10 U	11 U
2-Hexanone.....	10 U	10 U	10 U	11 U
Tetrachloroethene.....	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane.....	5 U	5 U	5 U	5 U
Toluene.....	5 U	5 U	5 U	1 BJ
Chlorobenzene.....	5 U	5 U	5 U	5 U
Ethylbenzene.....	5 U	5 U	5 U	5 U
Styrene.....	5 U	5 U	5 U	5 U
Total Xylenes.....	5 U	5 U	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND SEDIMENT SAMPLES
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-027-001	8608-027-004	8608-027-010
Customer ID:	SED1108860	SED1208860	SED1308860
Matrix:	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/L
Dilution Factor:	1	1	1

Surrogate Recovery

Toluene-d8:	96 %	101 %	94 %
Bromofluorobenzene:	100 %	92 %	104 %
1,2-Dichloroethane-d4:	92 %	89 %	86 %

Analytes

Chloromethane.....	10 U	10 U	10 U
Bromomethane.....	10 U	10 U	10 U
Vinyl Chloride.....	10 U	10 U	10 U
Chloroethane.....	10 U	10 U	10 U
Methylene Chloride.....	2 J	5 U	5 U
Acetone.....	167	39	47 B
Carbon Disulfide.....	5 U	5 U	5 U
1,1-Dichloroethene.....	5 U	5 J	5 U
1,1-Dichloroethane.....	5 U	5 U	5 U
Trans-1,2-Dichloroethene.....	5 U	5 U	5 U
Chloroform.....	5 U	5 U	5 U
1,2-Dichloroethane.....	5 U	5 U	5 U
2-Butanone.....	12	10 U	10 U
1,1,1-Trichloroethane.....	5 U	5 U	5 U
Carbon Tetrachloride.....	5 U	5 U	5 U
Vinyl Acetate.....	10 U	10 U	10 U
Bromodichloromethane.....	5 U	5 U	5 U
1,2-Dichloropropane.....	5 U	5 U	5 U
Trans-1,3-Dichloropropene.....	5 U	5 U	5 U
Trichloroethene.....	5 U	4 J	5 U
Dibromochloromethane.....	5 U	5 U	5 U
1,1,2-Trichloroethane.....	5 U	5 U	5 U
Benzene.....	5 U	3 J	5 U
cis-1,3-Dichloropropene.....	5 U	5 U	5 U
2-Chloroethylvinylether.....	10 U	10 U	10 U
Bromoform.....	5 U	5 U	5 U
4-Methyl-2-pentanone.....	10 U	10 U	10 U
2-Hexanone.....	10 U	10 U	10 U
Tetrachloroethene.....	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane.....	5 U	5 U	5 U
Toluene.....	1 J	5	5 U
Chlorobenzene.....	5 U	4 J	5 U
Ethylbenzene.....	1 J	5 U	5 U
Styrene.....	5 U	5 U	5 U
Total Xylenes.....	7 J	5 U	5 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SEMI-VOLATILES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-041-001	SED0308860	
8608-024-003	SED0808860	
8608-024-004	SED0908860	
8608-056-008	SED1008860	
8608-027-001	SED1108860	
8608-027-002	SED1208860	
8608-027-004	SED1308860	

SOLAR POND SEDIMENT SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	8608-041-001	8608-024-003	8608-024-004	8608-056-008
Customer ID:	SED0308860	SED0808860	SED0908860	SED1008860
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	38	38	21	40

Surrogate Recovery

2-Fluorophenol:	24 %	57 %	57 %	27 %
Phenol-d5:	21 %	46 %	44 %	33 %
2,4,6-Br3-Phenol:	32 %	63 %	72 %	36 %
Nitrobenzene-d5:	26 %	24 %	42 %	20 %
2-Fluorobiphenyl:	36 %	36 %	72 %	36 %
p-Terphenyl-d14:	24 %	26 %	45 %	36 %

Analytes

Phenol	390 U	380 U	210 U	400 U
bis(2-Chloroethyl)Ether	390 U	380 U	210 U	400 U
2-Chlorophenol	390 U	380 U	210 U	400 U
1,3-Dichlorobenzene	390 U	380 U	210 U	400 U
1,4-Dichlorobenzene	390 U	380 U	210 U	400 U
Benzyl Alcohol	390 U	380 U	210 U	400 U
1,2-Dichlorobenzene	390 U	380 U	210 U	400 U
2-Methylphenol	390 U	380 U	210 U	400 U
bis(2-Chloroisopropyl)Ether	390 U	380 U	210 U	400 U
4-Methylphenol	390 U	380 U	210 U	400 U
N-Nitroso-di-n-propylamine	390 U	380 U	210 U	400 U
Hexachloroethane	390 U	380 U	210 U	400 U
Nitrobenzene	390 U	380 U	210 U	400 U
Isophorone	390 U	380 U	210 U	400 U
2-Nitrophenol	390 U	380 U	210 U	400 U
2,4-Dimethylphenol	390 U	380 U	210 U	400 U
Benzoic Acid	2000 U	1900 U	1000 U	2000 U
bis(2-Chloroethoxy)Methane	390 U	380 U	210 U	400 U
2,4-Dichlorophenol	390 U	380 U	210 U	400 U
1,2,4-Trichlorobenzene	390 U	380 U	210 U	400 U
Naphthalene	390 U	380 U	210 U	400 U
4-Chloroaniline	390 U	380 U	210 U	400 U
Hexachlororbutadiene	390 U	380 U	210 U	400 U
4-Chloro-3-methylphenol	390 U	380 U	210 U	400 U
2-Methylnaphthalene	390 U	380 U	210 U	400 U
Hexachlorocyclopentadiene	390 U	380 U	210 U	400 U
2,4,6-Trichlorophenol	390 U	380 U	210 U	400 U
2,4,5-Trichlorophenol	2000 U	1900 U	1000 U	2000 U
2-Chloronaphthalene	390 U	380 U	210 U	400 U
2-Nitroaniline	2000 U	1900 U	1000 U	2000 U
Dimethyl Phthalate	390 U	380 U	210 U	400 U
Acenaphthylene	390 U	380 U	210 U	400 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND SEDIMENT SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-041-001	8608-024-003	8608-024-004	8608-056-008
Customer ID:	SED0308860	SED0808860	SED0908860	SED1008860
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	38	38	21	40

Analytes

3-Nitroaniline	2000	U	1900	U	1000	U	2000	U
Acenaphthene	390	U	380	U	210	U	400	U
2,4-Dinitrophenol	2000	U	1900	U	1000	U	2000	U
4-Nitrophenol	2000	U	1900	U	1000	U	2000	U
Dibenzofuran	390	U	380	U	210	U	400	U
2,4-Dinitrotoluene	390	U	380	U	210	U	400	U
2,6-Dinitrotoluene	390	U	380	U	210	U	400	U
Diethylphthalate	390	U	380	U	210	U	400	U
4-Chlorophenyl-phenylether	390	U	380	U	210	U	400	U
Fluorene	390	U	380	U	210	U	400	U
4-Nitroaniline	2000	U	1900	U	1000	U	2000	U
4,6-Dinitro-2-methylphenol	2000	U	1900	U	1000	U	2000	U
N-Nitrosodiphenylamine	1100	B	300	JB	2000	B	440	B
4-Bromophenyl-phenylether	390	U	380	U	210	U	400	U
Hexachlorobenzene	390	U	380	U	210	U	400	U
Pentachlorophenol	2000	U	1900	U	1000	U	2000	U
Phenanthrene	390	U	380	U	210	U	400	U
Anthracene	390	U	80	J	210	U	400	U
di-n-Butyl Phthalate	390	B	380	U	60	J	240	JB
Fluoranthene	390	U	380	U	210	U	400	U
Pyrene	390	U	380	U	210	U	400	U
Butyl Benzyl Phthalate	390	U	380	U	210	U	400	U
3,3'-Dichlorobenzidine	780	U	760	U	420	U	800	U
Benzo(a)Anthracene	390	U	380	U	210	U	400	U
bis(2-Ethylhexyl)Phthalate	190	JB	170	J	170	J	400	U
Chrysene	390	U	380	U	210	U	400	U
di-n-Octyl Phthalate	390	U	380	U	210	U	400	U
Benzo(b)Fluoranthene	390	U	380	U	210	U	400	U
Benzo(k)Fluoranthene	390	U	380	U	210	U	400	U
Benzo(a)Pyrene	390	U	380	U	210	U	400	U
Indeno(1,2,3-cd)Pyrene	390	U	380	U	210	U	400	U
Dibenz(a,h)Anthracene	390	U	380	U	210	U	400	U
Benzo(g,h,i)Perylene	390	U	380	U	210	U	400	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND SEDIMENT SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-027-001	8608-027-002	8608-027-004
Customer ID:	SED1108860	SED1208860	SED1308860
Matrix:	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG
Dilution Factor:	21	27	46

Surrogate Recovery

2-Fluorophenol:	65 %	44 %	28 %
Phenol-d5:	52 %	37 %	34 %
2,4,6-Br3-Phenol:	88 %	64 %	78 %
Nitrobenzene-d5:	57 %	37 %	24 %
2-Fluorobiphenyl:	79 %	56 %	54 %
p-Terphenyl-d14:	56 %	50 %	55 %

Analytes

Phenol	210 U	270 U	460 U
bis(2-Chloroethyl)Ether	210 U	270 U	460 U
2-Chlorophenol	210 U	270 U	460 U
1,3-Dichlorobenzene	210 U	270 U	460 U
1,4-Dichlorobenzene	210 U	270 U	460 U
Benzyl Alcohol	210 U	270 U	460 U
1,2-Dichlorobenzene	210 U	270 U	460 U
2-Methylphenol	210 U	270 U	460 U
bis(2-Chloroisopropyl)Ether	210 U	270 U	460 U
4-Methylphenol	210 U	270 U	460 U
N-Nitroso-di-n-propylamine	210 U	270 U	460 U
Hexachloroethane	210 U	270 U	460 U
Nitrobenzene	210 U	270 U	460 U
Isophorone	210 U	270 U	460 U
2-Nitrophenol	210 U	270 U	460 U
2,4-Dimethylphenol	210 U	270 U	460 U
Benzoic Acid	1000 U	1400 U	2300 U
bis(2-Chloroethoxy)Methane	210 U	270 U	460 U
2,4-Dichlorophenol	210 U	270 U	460 U
1,2,4-Trichlorobenzene	210 U	270 U	460 U
Naphthalene	210 U	270 U	460 U
4-Chloroaniline	210 U	270 U	460 U
Hexachlororbutadiene	210 U	270 U	460 U
4-Chloro-3-methylphenol	210 U	270 U	460 U
2-Methylnaphthalene	210 U	270 U	460 U
Hexachlorocyclopentadiene	210 U	270 U	460 U
2,4,6-Trichlorophenol	210 U	270 U	460 U
2,4,5-Trichlorophenol	1000 U	1400 U	2300 U
2-Chloronaphthalene	210 U	270 U	460 U
2-Nitroaniline	1000 U	1400 U	2300 U
Dimethyl Phthalate	210 U	270 U	460 U
Acenaphthylene	210 U	270 U	460 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND SEDIMENT SAMPLES
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-027-001	8608-027-002	8608-027-004
Customer ID:	SED1108860	SED1208860	SED1308860
Matrix:	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG
Dilution Factor:	21	27	46

Analytes

3-Nitroaniline	1000	U	1400	U	2300	U
Acenaphthene	210	U	270	U	460	U
2,4-Dinitrophenol	1000	U	1400	U	2300	U
4-Nitrophenol	1000	U	1400	U	2300	U
Dibenzofuran	210	U	270	U	460	U
2,4-Dinitrotoluene	210	U	270	U	460	U
2,6-Dinitrotoluene	210	U	270	U	460	U
Diethylphthalate	210	U	270	U	460	U
4-Chlorophenyl-phenylether	210	U	270	U	460	U
Fluorene	210	U	270	U	460	U
4-Nitroaniline	1000	U	1400	U	2300	U
4,6-Dinitro-2-methylphenol	1000	U	1400	U	2300	U
N-Nitrosodiphenylamine	170	JB	240	JB	370	JB
4-Bromophenyl-phenylether	210	U	270	U	460	U
Hexachlorobenzene	210	U	270	U	460	U
Pentachlorophenol	1000	U	1400	U	2300	U
Phenanthrene	210	U	270	U	460	U
Anthracene	210	U	270	U	460	U
di-n-Butyl Phthalate	40	J	50	J	90	J
Fluoranthene	210	U	50	J	460	U
Pyrene	210	U	50	J	460	U
Butyl Benzyl Phthalate	210	U	270	U	460	U
3,3'-Dichlorobenzidine	420	U	540	U	920	U
Benzo(a)Anthracene	210	U	270	U	460	U
bis(2-Ethylhexyl)Phthalate	40	J	160	J	180	J
Chrysene	210	U	270	U	460	U
di-n-Octyl Phthalate	210	U	270	U	460	U
Benzo(b)Fluoranthene	210	U	270	U	460	U
Benzo(k)Fluoranthene	210	U	270	U	460	U
Benzo(a)Pyrene	210	U	270	U	460	U
Indeno(1,2,3-cd)Pyrene	210	U	270	U	460	U
Dibenz(a,h)Anthracene	210	U	270	U	460	U
Benzo(g,h,i)Perylene	210	U	270	U	460	U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

PESTICIDE/PCBs

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-041-001	SED0308860	
8608-024-003	SED0808860	
8608-024-004	SED0908860	
8608-056-008	SED1008860	
8608-027-001	SED1108860	
8608-027-002	SED1208860	
8608-027-040	SED1308860	

SOLAR POND SEDIMENT SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS) Page: 1

Sample Information

RFW Batch ID:	8608-041-001	8608-024-003	8608-024-004	8608-056-008
Customer ID:	SED0308860	SED0808860	SED0908860	SED1008860
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	.250	.1869	.1869	.250

Surrogate Recovery

Di-n-butylchlorendate:	30 %	79 %	64 %	56 %

Analytes

Alpha-BHC	2 U	1.5 U	1.5 U	2 U
Beta-BHC	2 U	1.5 U	1.5 U	2 U
Delta-BHC	2 U	1.5 U	1.5 U	2 U
Gamma-BHC (Lindane)	2 U	1.5 U	1.5 U	2 U
Heptachlor	2 U	1.5 U	1.5 U	2 U
Aldrin	2 U	1.5 U	1.5 U	2 U
Heptachlor Epoxide	2 U	1.5 U	1.5 U	2 U
Endosulfan I	2 U	1.5 U	1.5 U	2 U
Dieldrin	4 U	3 U	3 U	4 U
4,4'-DDE	4 U	3 U	3 U	4 U
Endrin	4 U	3 U	3 U	4 U
Endosulfan II	4 U	3 U	3 U	4 U
4,4'-DDD	4 U	3 U	3 U	4 U
Endosulfan Sulfate	4 U	3 U	3 U	4 U
4,4'-DDT	4 U	3 U	3 U	4 U
Methoxychlor	20 U	15 U	15 U	20 U
Endrin Ketone	4 U	3 U	3 U	4 U
Chlordane	20 U	15 U	15 U	20 U
Toxaphene	40 U	30 U	30 U	40 U
Aroclor-1016	20 U	15 U	15 U	20 U
Aroclor-1221	20 U	15 U	15 U	20 U
Aroclor-1232	20 U	15 U	15 U	20 U
Aroclor-1242	20 U	15 U	15 U	20 U
Aroclor-1248	20 U	15 U	15 U	20 U
Aroclor-1254	40 U	30 U	30 U	40 U
Aroclor-1260	40 U	30 U	30 U	40 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

SOLAR POND SEDIMENT SAMPLES
PESTICIDES/PCB
CLP LIST

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-027-001	8608-027-002	8608-027-040
Customer ID:	SED1108860	SED1208860	SED1308860
Matrix:	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG
Dilution Factor:	.1869	.1869	.1869

Surrogate Recovery

Di-n-butylchlorendate:	65 %	64 %	100 %

Analytes

Alpha-BHC	1.5 U	1.5 U	1.5 U
Beta-BHC	1.5 U	1.5 U	6.4 U
Delta-BHC	1.5 U	1.5 U	1.5 U
Gamma-BHC (Lindane)	1.5 U	1.5 U	1.5 U
Heptachlor	1.5 U	1.5 U	1.5 U
Aldrin	1.5 U	1.5 U	1.5 U
Heptachlor Epoxide	1.5 U	1.5 U	1.5 U
Endosulfan I	1.5 U	1.5 U	1.5 U
Dieldrin	3 U	3 U	3 U
4,4'-DDE	3 U	3 U	3 U
Endrin	3 U	3 U	3 U
Endosulfan II	3 U	3 U	3 U
4,4'-DDD	3 U	3 U	3 U
Endosulfan Sulfate	3 U	3 U	3 U
4,4'-DDT	3 U	3 U	3 U
Methoxychlor	15 U	15 U	15 U
Endrin Ketone	3 U	3 U	3 U
Chlordane	15 U	15 U	15 U
Toxaphene	30 U	30 U	30 U
Aroclor-1016	15 U	15 U	15 U
Aroclor-1221	15 U	15 U	15 U
Aroclor-1232	15 U	15 U	15 U
Aroclor-1242	15 U	15 U	15 U
Aroclor-1248	15 U	15 U	15 U
Aroclor-1254	30 U	30 U	30 U
Aroclor-1260	30 U	30 U	30 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

RADIONUCLIDES

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
1000-000-353	SED0308860	22542-7-7
1000-000-359	SED0808860	22509-14-6
1000-000-360	SED0908860	22509-14-7
1000-000-361	SED1008860	22581-6-4
1000-000-362	SED1108860	22510-10-7
1000-000-363	SED1208860	22510-10-8
1000-000-365	SED1308860	22510-10-10

SOLAR POND SEDIMENT SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	1000-000-353			1000-000-359			1000-000-360	
Customer ID:	SED0308860			SED0808860			SED0908860	
Matrix:	Soil			Soil			Soil	

Radio Chemistry

Gross Alpha	24 +/- 10	pci/g		19 +/- 10	pci/g		15 +/- 9	pci/g
Gross Beta	32 +/- 6	pci/g		22 +/- 6	pci/g		24 +/- 6	pci/g
Uranium 233, 234	0.95 +/- 0.19	pci/g		0.74 +/- 0.27	pci/g		0.87 +/- 0.17	pci/g
Uranium 235	NR			NR			NR	
Uranium 238	1.0 +/- 0.2	pci/g		0.57 +/- 0.24	pci/g		0.89 +/- 0.17	pci/g
Strontium 89, 90	NR			NR			NR	
Plutonium 239, 240	1.9 +/- 0.1	pci/g		0.13 +/- 0.10	pci/g		0.09 +/- 0.10	pci/g
Americium 241	0.42 +/- 0.06	pci/g		0.09 +/- 0.10	pci/g		0.16 +/- 0.15	pci/g
Cesium 137	NR			NR			NR	
Tritium	-0.03 +/- 0.24	pci/ml		0.32 +/- 0.26	pci/ml		0.11 +/- 0.25	pci/ml

Sample Information

RFW Batch ID:	1000-000-361			1000-000-362			1000-000-363	
Customer ID:	SED1008860			SED1108860			SED1208860	
Matrix:	Soil			Soil			Soil	

Radio Chemistry

Gross Alpha	10 +/- 9	pci/g		19 +/- 9	pci/g		24 +/- 10	pci/g
Gross Beta	28 +/- 6	pci/g		13 +/- 6	pci/g		22 +/- 6	pci/g
Uranium 233, 234	0.89 +/- 0.20	pci/g		0.29 +/- 0.18	pci/g		0.61 +/- 0.18	pci/g
Uranium 235	NR			NR			NR	
Uranium 238	0.91 +/- 0.21	pci/g		0.29 +/- 0.18	pci/g		0.62 +/- 0.18	pci/g
Strontium 89, 90	NR			NR			NR	
Plutonium 239, 240	0.01 +/- 0.02	pci/g		0.02 +/- 0.02	pci/g		0.35 +/- 0.06	pci/g
Americium 241	0.00 +/- 0.01	pci/g		0.02 +/- 0.02	pci/g		0.19 +/- 0.05	pci/g
Cesium 137	NR			NR			NR	
Tritium	0.16 +/- 0.21	pci/ml		0.18 +/- 0.26	pci/ml		0.24 +/- 0.26	pci/ml

SOLAR POND SEDIMENT SAMPLES
RADIOCHEMISTRY
DATA SUMMARY REPORT

Sample Information

RFW Batch ID: 1000-000-365
Customer ID: SED1308860
Matrix: Soil

Radio Chemistry

Gross Alpha.....	34 +/- 11	pci/g
Gross Beta.....	22 +/- 6	pci/g
Uranium 233, 234.....	0.93 +/- 0.29	pci/g
Uranium 235.....	NR	
Uranium 238.....	0.63 +/- 0.25	pci/g
Strontium 89, 90.....	NR	
Plutonium 239, 240.....	0.07 +/- 0.04	pci/g
Americium 241.....	0.03 +/- 0.03	pci/g
Cesium 137.....	NR	
Tritium.....	-0.01 +/- 0.25	pci/ml

INORGANICS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-041-053	SED0308860	
8608-024-027	SED0808860	
8608-024-030	SED0908860	
8608-056-032	SED1008860	
8608-027-003	SED1108860	
8608-027-006	SED1208860	
8608-027-012	SED1308860	

SOLAR POND SEDIMENT SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-041-053			8608-024-027			8608-024-030		
Customer ID:	SED0308860			SED0808860			SED0908860		
Matrix:	Water			Soil			Soil		
Inorganics									
CO3= as CaCO3	NR			NR			NR		
HCO3- as CaCO3	NR			NR			NR		
Chloride	12		mg/kg	24		mg/kg	139		mg/kg
Sulfate	91		mg/kg	33		mg/kg	289		mg/kg
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	113.7		mg/kg	149		mg/kg	78.0		mg/kg
Sulfide									
Cyanide, Total	0.005		mg/kg	1.0		mg/kg	0.22	U	mg/kg
Hexavalent Chromium (Cr+6)	NA			NA			NA		
Total Dissolved Solids	NA			NA			NA		
Total Suspended Solids	NA			NA			NA		
% Solids	88		%	90.1		%	90		%

Sample Information

RFW Batch ID:	8608-056-032			8608-027-003			8608-027-006		
Customer ID:	SED1008860			SED1108860			SED1208860		
Matrix:	Soil			Soil			Soil		
Inorganics									
CO3= as CaCO3	NR			NR			NR		
HCO3- as CaCO3	NR			NR			NR		
Chloride	11		mg/kg	210		mg/kg	155		mg/kg
Sulfate	26		mg/kg	173		mg/kg	465		mg/kg
pH									
Fluoride									
Nitrate-Nitrite-Nitrogen	20	U	mg/kg	38.1		mg/kg	20	U	mg/kg
Sulfide									
Cyanide, Total	2.5	U	mg/kg	0.09	U	mg/kg	0.10	U	mg/kg
Hexavalent Chromium (Cr+6)	NA			NA			NA		
Total Dissolved Solids	NA			NA			NA		
Total Suspended Solids	NA			NA			NA		
% Solids	93		%	85		%	58		%

SOLAR POND SEDIMENT SAMPLES
INORGANIC
DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID: 8608-027-012
Customer ID: SED1308860
Matrix: Soil

Inorganics

CO3= as CaCO3	NR		
HCO3- as CaCO3	NR		
Chloride	34		mg/kg
Sulfate	18	U	mg/kg
pH			
Fluoride			
Nitrate-Nitrite-Nitrogen	20	U	mg/kg
Sulfide			
Cyanide, Total	0.07	U	mg/kg
Hexavalent Chromium (Cr+6)	NA		
Total Dissolved Solids	NA		
Total Suspended Solids	NA		
% Solids	82		%

METALS

List: Customer ID's: All

RFW Batch ID	Customer ID	Laboratory ID
8608-041-052	SED0308860	
8608-024-026	SED0808860	
8608-024-029	SED0908860	
8608-056-032	SED1008860	
8608-027-002	SED1108860	
8608-027-005	SED1208860	
8608-027-011	SED1308860	

SOLAR POND SEDIMENT SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-041-052	8608-024-026	8608-024-029	8608-056-032
Customer ID:	SED0308860	SED0808860	SED0908860	SED1008860
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Metals

Silver (Ag), total	2.2	1.0 U	0.79 U	1.1 U
Aluminum (Al), total	9.7	18700	2600	2950
Arsenic (As), total	0.10	2.0	1.6	0.5
Barium (Ba), total	57	157	28	11
Beryllium (Be), total	2.3	1.0	0.40 U	0.5 U
Calcium (Ca), total	710	5150	1370	3990
Cadmium (Cd), total	0.6 U	0.50 U	0.40 U	0.5 U
Cobalt (Co), total	8.0	7.0	4.0	5.4 U
Chromium (Cr), total	16	17	4.8	4.7
Cesium (Cs), total	11 U	8.5	8.8 U	27 U
Copper (Cu), total	19	19	5.6	0.42
Iron (Fe), total	12500	18600	6280	5280
Mercury (Hg), total	0.26	0.23	0.11	0.11 U
Potassium (K), total	2610	6610	1210	550
Lithium (Li), total				
Magnesium (Mg), total	250	3690	713	2480
Manganese (Mn), total	200	430	249	340
Molybdenum(Mo), total	11	10 U	7.9 U	11 U
Sodium (Na), total	230 U	249	128	54 U
Nickel (Ni), total	14	13	3.2	4.3 U
Lead (Pb), total	14	13	2.5 U	7.6
Antimony (Sb), total	5.7 U	2.0 U	1.6 U	0.5 U
Selenium (Se), total	0.13	0.13	0.10 U	0.04 U
Strontium (Sr), total	14	78	14	15
Thallium (Tl), total	1.1 U	12	13	0.11 U
Vanadium (V), total	32	45	10	13
Zinc (Zn), total	71	76	34	23

SOLAR POND SEDIMENT SAMPLES
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: Client: ROCKWELL (ROCKY FLATS)

Sample Information

RFW Batch ID:	8608-027-002	8608-027-005	8608-027-011
Customer ID:	SED1108860	SED1208860	SED1308860
Matrix:	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG

Metals

Silver (Ag), total.....	1.2 U	1.1 U	1.6
Aluminum (Al), total.....	15100	9660	8520
Arsenic (As), total.....	0.23 U	0.27 U	0.23
Barium (Ba), total.....	20 U	119	91
Beryllium (Be), total.....	0.50 U	0.57 U	0.39 U
Calcium (Ca), total.....	132000	12000	6930
Cadmium (Cd), total.....	1.2	0.57 U	0.39 U
Cobalt (Co), total.....	12	8.0	4.6
Chromium (Cr), total.....	6.1	9.1	7.8
Cesium (Cs), total.....	12 U	14 U	6.6 U
Copper (Cu), total.....	13	17	10
Iron (Fe), total.....	5280	12800	14300
Mercury (Hg), total.....	0.72	0.20	0.02 U
Potassium (K), total.....	5180	42700	34100
Lithium (Li), total.....			
Magnesium (Mg), total.....	612	2600	1800
Manganese (Mn), total.....	88	189	325
Molybdenum(Mo), total.....	2.2	11 U	7.8 U
Sodium (Na), total.....	670	659	324
Nickel (Ni), total.....	34	17	9.3
Lead (Pb), total.....	4.4	17	11
Antimony (Sb), total.....	1.2 U	2.3 U	1.6
Selenium (Se), total.....	0.23 U	0.27 U	0.22 U
Strontium (Sr), total.....	15	86	48
Thallium (Tl), total.....	4.1	8.4	8.5
Vanadium (V), total.....	15	28	26
Zinc (Zn), total.....	660	258	99

APPENDIX D

HISTORICAL ANALYTICAL DATA

This appendix contains historical analytical data for the Solar Ponds Area. The enclosed data are presented in the following order:

Appendix D-1: Metals
- 207 Solar Ponds

Appendix D-2: Radiochemistry
- 207 Solar Ponds
- 774 Pond
- Sump 1
- Sump 2
- Sump 3
- Sump 6

Appendix D-3: Inorganics
- 207 Solar Ponds
- 774 Ponds
- Sump 1
- Sump 2
- Sump 3
- Sump 6

NARRATIVE
ROCKY FLATS HISTORICAL DATA BASE

The Rocky Flats Historical Database has been established using data obtained from Rockwell files and binders located at Rocky Flats. It includes data on landfill sites and solar ponds and covers the period from 1974 to 1986. To prepare for the possibility of combining this historical data with current data, the ADMS database structure has been used.

Key elements to the reports generated from this database include sample dates, reporting units, and analyte values. These are discussed in the following paragraphs.

SAMPLE DATES

When available, exact sample dates provided on analytical reports have been used. Monthly grab samples for which only a month and year were indicated have been assigned a date of the 15th or 16th of the month. In situations where sample dates were not provided on analytical reports but dates could be approximated from report dates and report batch numbers, the approximate date was used. Data for which sample dates could not be approximated have not been included.

UNITS

With the exception of specific conductivity which has been reported in umhos/cm, analytical values have been reported in milligrams per liter (MG/L;PPM). Reporting units on phenols and pcb's are questionable and values included in the historical appendices for those substances should not be used for evaluation purposes

until those have been verified and corrected. In many cases, an attempt was made to convert phenol/pcb values to micrograms per liter (UG/L;ppb).

ANALYTE VALUES

Values for analytical data reported in scientific notation have been converted to standard notation. With the exception of the phenol/pcb values mentioned in the paragraph on units, all other values have been entered as they appeared on Rockwell analytical reports. No attempt has been made to adjust values for signficant figures, etc.

APPENDIX D-1

METALS

207 SOLAR PONDS

SOLAR POND 207C
METALS
HISTORICAL DATA

SAMPLE DATE	SILVER MG/L	ALUMINUM MG/L	ARSENIC MG/L	BORON MG/L	BARIUM MG/L	BERYLLIUM MG/L	CALCIUM MG/L	CADMIUM MG/L	COBALT MG/L	CHROMIUM MG/L	COPPER MG/L	IRON MG/L	MERCURY MG/L
05/15/74	0.26	5.3	0.003	180	1	0.46		0.4	1.7	40	0.53	1.7	0.1
05/15/75						0.2							
12/15/75						0.3							
04/15/76						0.1							
08/15/76						0.4							
04/15/77						0.1							
08/15/77						<0.1							
11/15/77						0.1							
12/15/77						0.2							
01/15/78						0.1							
02/15/78						0.14							
03/15/78						0.2							
04/15/78						0.2							
05/15/78						<0.1							
06/15/78						<0.1							
07/15/78						<0.1							
08/15/78						<0.1							
08/16/78						<0.1							
09/15/78						0.3							
10/15/78						0.3							
11/15/78						0.10							
12/15/78						<0.1							
01/15/79						0.1							
01/16/79						0.1							
03/15/79						<0.1							
09/15/81						<0.1							
10/28/81						<0.1							
10/07/82						0.1							
12/06/82						<0.1							
03/25/85						<0.1							

SOLAR POND 207C
METALS
HISTORICAL DATA

SAMPLE DATE	SILVER MG/L	ALUMINUM MG/L	ARSENIC MG/L	BORON MG/L	BARIUM MG/L	BERYLLIUM MG/L	CALCIUM MG/L	CADMIUM MG/L	COBALT MG/L	CHROMIUM MG/L	COPPER MG/L	IRON MG/L	MERCURY MG/L
06/25/85						<0.1							
09/11/85						0.6							

SOLAR POND 207C
METALS
HISTORICAL DATA

SAMPLE DATE	POTASSIUM MG/L	LITHIUM MG/L	MANGANESE MG/L	MOLYBDENUM MG/L	SODIUM MG/L	NICKEL MG/L	PHOSPHOROUS MG/L	LEAD MG/L	ANTIMONY MG/L	SILICON MG/L	TIN MG/L	VANADIUM MG/L	ZINC MG/L
05/15/74	31000	75	0.21	2.4	48500	2.6	400	0.2	3.1		<5	0.7	0.12
05/15/75													
12/15/75													
04/15/76													
08/15/76													
04/15/77													
08/15/77													
11/15/77													
12/15/77													
01/15/78													
02/15/78													
03/15/78													
04/15/78													
05/15/78													
06/15/78													
07/15/78													
08/15/78													
08/16/78													
09/15/78													
10/15/78													
11/15/78													
12/15/78													
01/15/79													
01/16/79													
03/15/79													
09/15/81													
10/28/81													
10/07/82													
12/06/82													
03/25/85													

SOLAR POND 207C
METALS
HISTORICAL DATA

SAMPLE DATE	POTASSIUM MG/L	LITHIUM MG/L	MANGANESE MG/L	MOLYBDENUM MG/L	SODIUM MG/L	NICKEL MG/L	PHOSPHOROUS MG/L	LEAD MG/L	ANTIMONY MG/L	SILICON MG/L	TIN MG/L	VANADIUM MG/L	ZINC MG/L
06/25/85													
09/11/85													

SOLAR POND 207A
METALS
HISTORICAL DATA

SAMPLE DATE	SILVER MG/L	ALUMINUM MG/L	BORON MG/L	BARIUM MG/L	BERYLLIUM MG/L	CALCIUM MG/L	CADMIUM MG/L	COBALT MG/L	CHROMIUM MG/L	COPPER MG/L	IRON MG/L	MERCURY MG/L	POTASSIUM MG/L
09/15/70		<1	3	<1	0.2	90	<25	<1	1		1		24100
05/15/74	0.15	14.3	110	1	0.8		0.23	0.8	12	0.23	2.9	<0.05	10300
04/15/75					0.1								
12/15/75					0.2								
04/15/76					<0.1								
08/15/76					0.1								
04/15/77					<0.1								
08/15/77					<0.1								
08/15/78					<0.1								
07/10/80					0.2								
09/12/80					<0.1								
12/03/80					0.1								
03/12/81					<0.1								
10/07/82					0.1								
03/08/83					<0.1								
03/22/83					<0.1								
06/15/83					<0.1								
09/06/83					<0.1								
03/05/84					<0.1								
06/05/84					<0.1								
09/13/84					<0.1								
09/13/84					<0.1								
12/05/84					<0.1								
03/05/85					0.1								
06/25/85					0.1								
09/11/85					0.1								

SOLAR POND 207A
METALS
HISTORICAL DATA

SAMPLE DATE	LITHIUM MG/L	MAGNESIUM MG/L	MANGANESE MG/L	MOLYBDENUM MG/L	SODIUM MG/L	NICKEL MG/L	PHOSPHOROUS MG/L	LEAD MG/L	ANTIMONY MG/L	SILICON MG/L	TIN MG/L	VANADIUM MG/L	ZINC MG/L
09/15/70	90	35	<1		34500	1		2		<1			
05/15/74	12		0.14	1.4	25000	1	440	1	2		<5	0.7	0.2
04/15/75													
12/15/75													
04/15/76													
08/15/76													
04/15/77													
08/15/77													
06/15/78													
07/10/80													
09/12/80													
12/03/80													
03/12/81													
10/07/82													
03/08/83													
03/22/83													
06/15/83													
09/06/83													
03/05/84													
06/05/84													
09/13/84													
09/13/84													
12/05/84													
03/05/85													
06/25/85													
09/11/85													

SOLAR POND 207B SOUTH
METALS
HISTORICAL DATA

SAMPLE DATE	SODIUM MG/L	POTASSIUM MG/L	CALCIUM MG/L	MAGNESIUM MG/L
12/11/78				
12/15/78	206	33	29	5.0
03/02/79				
04/11/79				
08/29/79				
08/31/79				
09/04/79				
09/05/79				
09/07/79				
09/10/79				
09/12/79				
09/14/79				
09/17/79				
09/19/79				
09/21/79				
09/24/79				
09/26/79				
09/28/79				
10/01/79				
10/03/79				
10/05/79				
10/08/87				

SOLAR POND 207B NORTH
METALS
HISTORICAL DATA

SAMPLE DATE	SODIUM MG/L	POTASSIUM MG/L	CALCIUM MG/L	MAGNESIUM MG/L
05/09/75				
12/08/78	79	13	36	9.0
12/15/78	225	36	28	5.0
03/15/83				
03/22/83				
03/29/83				
06/05/84				
06/12/84				
06/19/84				
06/26/84				
07/03/84				
07/10/84				
07/18/84				
07/24/84				
07/31/84				
10/30/84				
11/06/84				
11/13/84				
11/18/86				
12/02/86				

APPENDIX D-2

RADIOCHEMISTRY

207 SOLAR PONDS

SOLAR POND 207C
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ERROR	BETA PCI/L	ERROR	TRITIUM PCI/L	ERROR	URANIUM 235 PCI/L	ERROR	URANIUM 234 PCI/L	ERROR	URANIUM 238 PCI/L	ERROR	PLUTONIUM 239 PCI/L	ERROR	STRONTIUM 90 PCI/L	ERROR	AMERICIUM 241 PCI/L	ERROR	T. URANIUM PCI/L	ERROR
05/15/74											27		1360				2			
05/15/75	27000		120000		74000		0.16				31		332		8		59			
12/15/75	43000		210000				0.3				63				<3					
04/15/76	28000		140000								34				4					
12/15/76	25000		310000				0.20				42				5					
04/15/77	23000		135000				0.14				29				32					
08/15/77	9700		31000				0.01				22				27					
11/15/77	23000		58000				430				13000				12					
12/15/77	56000		65000				710				18000				4					
01/15/78	44000		78000				3300		19000		20000		27		14					
02/15/78	38000		94000				1800		1400		17000		68		4.0					
03/15/78	46000		74000				670		16000		17600		20		4.2					
04/15/78	64000		66000				950		15700		19100		540		4.8					
05/15/78	5800		8900				120		2300		2600		4.5		<3					
06/15/78	7500		9800				3200		6300		7500		<10 D/M/L		<3					
07/15/78	25000		22000				230		4300		4900		9.9		<3					
08/15/78	98000		36000		13700		610		13400		12000		28		4.2		0.16			
08/15/78	16000		22000				590		1300		12000		5.2		<3					
09/15/78	34000		47000				270		5300		5900		27		<3					
10/15/78	16000		29000				320		6100		7000		36							
11/15/78	8900		11000				150		3200		3300		3		3.0					
12/15/78	11000		21000				210		4900		4700		9		<3					
01/15/79	9400				11200		310		7900		6900		5.8				3.9			
01/16/79	15000		24000				1800		34700		39200		5.0							
02/15/79					9123	700														
03/15/79	21000		651				900		17600		19800		25		<3					
07/23/79	17000		22000		14600		210		3900		4600		<13				10.0			
08/15/79	9500		17000		3990		230		4700		5000		21				<5			
09/15/79	15000		19000		3570		460		4700		5200		46				46			
07/10/80	40000		30000		5000		32		3300		3500		11				68			

SOLAR POND 207C
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ERROR	BETA PCI/L	ERROR	TRITIUM PCI/L	ERROR	URANIUM 235 PCI/L	ERROR	URANIUM 234 PCI/L	ERROR	URANIUM 238 PCI/L	ERROR	PLUTONIUM 239 PCI/L	ERROR	STRONTIUM 90 PCI/L	ERROR	AMERICIUM 241 PCI/L	ERROR	T. URANIUM PCI/L	ERROR
08/06/80	5000	2800	6800	3900	5100		69		2700		2900		15				41			
09/12/80	11000	3500	9300	4600	5100		230		3600		3800		19				66			
10/15/80	1239	523	499	109	(840		(290		920		(2000		17				51			
10/28/80					2194	512														
11/07/80					25279	768														
11/24/80	367	127	1062	264	3000		230	140	4100	700	3100	60	3600	800			620	430		
12/03/80	4600	1100	1600	350	5100		610	280	4600	90	5200	1000	510	270			770	310		
12/07/80					3480	655														
01/15/81					6048	662														
01/27/81	8200		10000		6300		160	50	3700	300	6600	500	22	7			29	24		
02/15/81					4363	424														
02/25/81	7200		6100		7400		120	40	2400	200	4200	300	3.1	0.7			24	25		
02/27/81					4363	424														
03/12/81	4000		3100		1800		100	40	1500	200	2600	300	26	6			11	7		
03/27/81					2522	457														
04/15/81					2465	447														
04/28/81	3800	1600	8700	4000	1400		99	116	1200	400	1700	500	0	110			3.3	30		
05/15/81					2494	436														
05/15/81	2300	1200	890	420	3421	608	560	230	1500	500	2400	600	69	104			20	47		
06/23/81	2400	1600	1300	700	(1400		100	60	2100	400	4100	600	5	3			17	25		
07/29/81	3200	1300	4300	1300			92	40	2000	300	4200	600	0	4			7	7		
09/15/81	17000	3000	180000	40000	1400		410	190	8700	2000	20000	4000	27	20			56	33		
10/28/81	370	70	4500	700			120	30	2000	500	4200	300	21	12			42	44		
02/26/82					6049	870														
04/06/82					4461	349														
04/27/82					2004	652														
06/02/82					1004	650														
07/06/82	2	14	19	27																
07/27/82					2538	691														
08/03/82	18	16	0	22			0.0	0.4	3.6	2.0	6.4	2.3	.34	.46			110	50		

SOLAR POND 207C
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ERROR	BETA PCI/L	ERROR	TRITIUM PCI/L	ERROR	URANIUM 235 PCI/L	ERROR	URANIUM 234 PCI/L	ERROR	URANIUM 238 PCI/L	ERROR	PLUTONIUM 239 PCI/L	ERROR	STRONTIUM 90 PCI/L	ERROR	AMERICIUM 241 PCI/L	ERROR	T. URANIUM PCI/L	ERROR
08/27/82					2248	738														
09/24/82					908	908														
10/07/82	9.8	100	11000	4000	990	600							37	44			60	120	1400	700
11/22/82					6237	931														
12/06/82	10	19	0	19	630	480							13.2	24.5			25.8	18.1	74.1	63.3
01/26/83					2822	708														
02/28/83					575	653														
03/30/83					1117	627														
06/27/83					2048	634														
07/29/83					1945	674														
03/22/84	2100	1500	620	170	400	170							49				12		2300	
06/05/84	2886	2423	722	250	6400	600							30	19			97	34	3300	200
09/13/84	10000	17000	771	227	1200	400							120	80			140	90	13000	1000
12/05/84	15000	3000	405	79	1500	600							460	130			40	100	15000	1000
03/25/85	2500	400	4300	300	0	0							21	32			110	50	3700	400
06/25/85	6500		11000	2000																
09/11/85	8800	600	6400	1100	720	90							1400	300			13000	1000	1800	300

SOLAR POND 207A
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	URANIUM 235 PCI/L	URANIUM 235 ERROR	URANIUM 234 PCI/L	URANIUM 234 ERROR	URANIUM 238 PCI/L	URANIUM 238 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR	T. URANIUM PCI/L	T. URANIUM ERROR	CURIUM 244 PCI/L	CURIUM 244 ERROR
09/15/70	29500										2.9		100									
05/15/74											20		1400				6					
12/15/74	9800		21000				0.12				27		770									
04/15/75	15000		87000				0.1				24				4							<10
12/15/75	25000		27000		140000		0.1				22		323		<3		64					
04/15/76	14000		43000								20				<3							
08/15/76	16000		120000				0.09				18				<3							
04/15/77	14000		26000				0.10				15				24							
08/15/77	8100		21000				0.09				15				20							9
08/15/78	11300		4500				280				5400				<3							
02/15/79					16685																	
					359																	
07/10/80	30000		22000		7000		350		7400		6900		8400				19000					
09/12/80	42000		32000		3400		470		9800		160		22000				23000					
	3000		8000																			
11/07/80					3464																	
					471																	
12/03/80	5600		2600		13000		1000	50	3500		9700		190				93		49			
	1100		600						1400		1600		110									
12/07/80					19943																	
					875																	
01/15/81					16252																	
					841																	
02/15/81					14026																	
					516																	
03/12/81	13000		8500		5000		220	50	3400		3100		380		50		13		13			
									300		500											
03/27/81					9243																	
					522																	
04/15/81					8246																	
					497																	

SOLAR POND 207A
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ERROR	BETA PCI/L	ERROR	TRITIUM PCI/L	ERROR	URANIUM 235 PCI/L	ERROR	URANIUM 234 PCI/L	ERROR	URANIUM 238 PCI/L	ERROR	PLUTONIUM 239 PCI/L	ERROR	STRONTIUM 90 PCI/L	ERROR	AMERICIUM 241 PCI/L	ERROR	T. URANIUM PCI/L	ERROR	CURIUM 244 PCI/L	ERROR
05/15/81					7484																	
					698																	
05/16/81					6150																	
					503																	
06/30/81					5317																	
					578																	
02/26/82					14561																	
					1232																	
04/06/82					3943																	
					316																	
06/02/82					2978																	
					646																	
07/27/82					5807																	
					721																	
08/27/82					4708																	
					732																	
09/24/82					4254																	
					739																	
10/07/82	11000		120000		1400								0				600		13900			
			30000		700								370				460		300			
03/08/83	0	6	4	20	4332								390		40		250	60	17000			
					664														2000			
03/22/83	4800		1100		2926								19.4				130	50	7300			
	7000		300		574								14.0						800			
06/15/83	1900		1000		1400								550				0	13	2700			
	800		600		700								960						200			
09/06/83	2400		1000		3000								140				540		3400			
			300		1000								110				290		700			
03/05/84	1900		220	60	1300								12				650		4000			
	1100																					

SOLAR POND 207A
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ERROR	BETA PCI/L	ERROR	TRITIUM PCI/L	ERROR	URANIUM 235 PCI/L	ERROR	URANIUM 234 PCI/L	ERROR	URANIUM 238 PCI/L	ERROR	PLUTONIUM 239 PCI/L	ERROR	STRONTIUM 90 PCI/L	ERROR	AMERICIUM 241 PCI/L	ERROR	T. URANIUM PCI/L	ERROR	CURIUM 244 PCI/L	ERROR
06/05/84	3500		2		27 4300								11		24		38		28 6500			
	2900				300														400			
09/13/84	32		16 39		40 2800								240				200		.69			
					1000								100				120		.79			
09/13/84	32		16 39		40 2800								240				200		.69			
					100								100				120		.79			
12/05/84	204		21		26 620								160		70		0		76 86		70	
	120				230																	
03/05/85	3400		12000		1000								130		60		0		9200			
	300		1000		400												150		1100			
06/25/85	24000		5200																			
			1000																			
09/11/85	56000		0 27000		3000								0				0		26000			
			6000		500								420				1000		2000			

SOLAR POND 207B SOUTH
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR
12/11/78	21		5			
12/15/78	59		68			
03/02/79	11		8			
04/11/79						
08/29/79	35		19		<2820	
08/31/79	29		31		<1390	
09/04/79	9		9		<1330	
09/05/79	27		<5		<1310	
09/07/79	31		69		<1330	
09/10/79	19		32		<1500	
09/12/79	15		30		<1500	
09/14/79	<5		23		<1570	
09/17/79	<5		30		<1500	
09/19/79	17		15		<623	
09/21/79	23		9		<642	
09/24/79	<5		<5		<622	
09/26/79	16		21		<614	
09/28/79	16		53		<635	
10/01/79	6		59		<632	
10/03/79	55		<5		<587	
10/05/79	<5		11		7140	
10/08/87	13		50		<634	

SOLAR POND 207B NORTH
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR
05/09/78	35		55			
12/08/78	13		5			
12/15/78	53		85			
03/15/83	124	55	22	31		
03/22/83	112	55	47	36		
03/29/83	57	23	27	33		
06/05/84					1850	760
06/12/84					1810	750
06/19/84	250	132	55	51		
06/26/84	124	67	67	49		
07/03/84					3140	910
07/10/84					2760	700
07/18/84					2530	1000
07/24/84					2710	570
07/31/84					2120	50
10/30/84					2670	320
11/06/84					1880	490
11/13/84					1310	480
11/18/86	67	0	67	25		
12/02/86	90	4	58	31		

SOLAR POND 207B CENTER
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR
03/15/83	35	37	6	20		
03/22/83	14	19	7	22		
03/29/83	24	14	19	27		
06/05/84					360	680
06/12/84					260	670
06/19/84	7	20	11	33		
06/26/84	43	25	-6	27		
07/03/84					430	770
07/10/84					340	940
07/18/84					1620	920
07/24/84					100	830
07/31/84					250	700
10/30/84					-90	700
11/06/84					-90	680
11/13/84					-120	680
11/18/86	35	4	47	29		
12/02/86	74	10	35	5		

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
01/05/76	17											
01/12/76	13											
01/19/76	17											
01/26/76	18											
02/02/76	6											
02/09/76	11											
02/16/76	9											
02/23/76	8											
03/01/76	15											
03/08/76	<5											
03/15/76	<5											
03/22/76	6											
03/29/76	6											
04/05/76	<5											
04/12/76	30											
04/19/76	31											
04/26/76	36											
05/03/76	19											
05/10/76	15											
05/17/76	28											
05/24/76	16											
05/31/76	14											
06/07/76	27											
06/14/76	10											
06/21/76	12											
06/28/76	17											
07/06/76	33											
07/19/76	< 5											
07/25/76	32											
08/02/76	8											

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
08/09/76	16											
08/16/76	10											
08/23/76	32											
08/30/76	10											
09/07/76	14											
09/13/76	13											
09/27/76	29											
10/04/76	27											
10/11/76	26											
10/18/76	100											
10/25/76	44											
11/01/76	13											
11/08/76	12											
11/15/76	21											
11/22/76	15											
11/29/76	17											
12/06/76	16											
12/13/76	28											
12/20/76	50											
12/27/76	19											
01/03/77	24											
01/10/77	24											
01/17/77	15											
01/24/77	38											
01/31/77	34											
02/07/77	79											
02/28/77	40											
03/07/77	32											
03/14/77	32											
03/21/77	27											

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
03/28/77	38											
04/04/77	7											
04/11/77	38											
04/18/77	26											
04/25/77	20											
05/02/77	16											
05/09/77	15											
05/16/77	18											
05/23/77	25											
05/30/77	25											
06/06/77	26											
06/13/77	21											
06/20/77	38											
06/27/77	21											
07/05/77	22											
07/11/77	6											
07/18/77	35											
07/25/77	20											
08/01/77	38											
08/08/77	26											
08/15/77	31											
08/22/77	31											
08/29/77	30											
09/06/77	7											
09/12/77	22											
09/19/77	11											
09/26/77	31											
10/17/77	25											
10/24/77	18											
10/31/77	5											

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
11/07/77	23											
11/14/77	30											
11/21/77	25											
12/05/77	16											
12/12/77	59											
12/19/77	13											
12/27/77	33											
01/03/78	35											
01/09/78	23											
01/16/78	37											
01/23/78	25											
01/30/78	27											
02/06/78	28											
02/13/78	19											
02/20/78	76											
02/27/78	46											
03/06/78	22											
03/13/78	13											
03/20/78	27											
03/27/78	13											
04/03/78	21											
04/10/78	17											
04/17/78	51											
04/24/78	38											
05/01/78	9											
05/08/78	9											
05/15/78	19											
05/22/78	29											
05/29/78	24											
06/05/78	16											

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
06/12/78	16											
06/19/78	45											
06/26/78	60											
07/03/78	29											
07/10/78	23											
07/17/78	8											
07/24/78	22											
07/31/78	20											
08/07/78	20											
08/14/78	94											
08/21/78	96											
08/28/78	70											
09/05/78	39											
09/11/78	28											
09/18/78	76											
09/25/78	36											
10/02/78	9											
10/09/78	49											
10/16/78	107											
10/23/78	25											
10/30/78	39											
11/06/78	13											
11/13/78	9											
11/20/78	21											
11/27/78	17											
12/04/78	24											
12/11/78	25											
12/18/78	23											
01/02/79	19											
01/08/79	35											

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
01/15/79	112											
01/22/79	50											
02/05/79	72											
02/06/79	34											
02/12/79	38											
02/19/79	44											
02/26/79	34				11755	720						
03/05/79	24				6029	792						
03/12/79	68				8106	655						
03/19/79	36											
03/26/79	31				7562	306						
04/02/79	29				7023	657						
04/09/79	25				11485	744						
04/16/79	20				7250	834						
04/23/79	30				15056	1161						
04/30/79	19				13763	797						
05/07/79	24				11666	380						
05/14/79	12				8719	753						
05/21/79	15				10469	747						
05/29/79	42				14404	921						
06/07/79	13				9437	676						
06/11/79	25				8505	929						
06/18/79	39				13260	683						
06/25/79	<5				15169	1209						
07/02/79	76				12471	926						
07/09/79	31				12942	807						
07/16/79	10				10693	735						
07/23/79	5				11924	857						
07/30/79	26				10807	797						
08/06/79	23											

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
06/13/79	33											
08/20/79	37											
08/27/79	19											
09/04/79					16649	1130						
09/10/79	25				12761	784						
09/17/79	17				7228	581						
09/24/79					12309	759						
10/08/79	29											
10/15/79	41											
10/22/79	22											
11/05/79	21											
11/12/79	41											
11/19/79	20											
11/26/79	27											
12/03/79	9											
12/10/79	40											
12/17/79	52											
01/07/80	72											
01/14/80	99				10663	732						
01/21/80	35				6679	604						
01/28/80	120				7245	608						
02/04/80	64				11249	733						
02/18/80					7762	639						
02/25/80					4801	624						
03/03/80					9862	913						
03/10/80					5269	604						
03/17/80					9635	710						
03/24/80					866	665						
03/31/80					2439	541						
04/07/80					3737	652						

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
04/14/80					7057	646						
04/21/80					10624	716						
04/28/80					7985	624						
05/05/80					7134	575						
05/12/80					4636	585						
05/19/80					4966	621						
05/27/80					11176	750						
06/02/80					10992	729						
06/09/80					9269	718						
06/16/80					9549	655						
06/23/80					9765	728						
06/30/80					8408	709						
07/07/80					8212	657						
07/14/80					6095	774						
07/21/80					9178	664						
07/28/80					8622	529						
08/04/80					6597	609						
08/11/80					8262	677						
08/18/80					7479	762						
08/25/80					9085	707						
09/02/80					9117	791						
09/08/80					9434	655						
09/15/80					8079	556						
09/22/80					6450	667						
09/29/80					10186	858						
10/06/80					10021	792						
10/13/80					8683	663						
10/20/80					8342	594						
10/27/80					6882	668						
11/03/80					4973	579						

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HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
11/10/80					6220	610						
11/17/80					2590	561						
11/24/80					3233	605						
12/01/80					2544	579						
12/08/80					3272	655						
12/15/80					4278	597						
12/22/80					4472	602						
01/05/81					4976	599						
01/12/81					4288	609						
01/19/81					4456	617						
02/02/81					3909	604						
02/09/81					2538	669						
02/16/81					3719	586						
02/23/81					1812	613						
03/02/81					2984	632						
03/09/81					1452	588						
03/16/81					2749	619						
03/30/81					2910	591						
04/06/81					2764	591						
04/20/81					2832	602						
06/15/81					10041	746						
06/15/81					3257	667						
06/22/81					8143	706						
07/20/81					6815	589						
07/27/81					3648	586						
09/14/81					8525	702						
10/05/81					8260	814						
11/16/81					3504	565						
11/23/81					4360	673						
11/30/81					3041	712						

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HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
01/18/82					9479	481						
02/15/82					5032	747						
02/22/82					3885	591						
03/01/82					6019	646						
03/22/82					5015	787						
04/12/82					5016	606						
04/19/82					3818	605						
04/26/82					3643	618						
05/03/82					4953	660						
05/10/82					4353	585						
05/24/82					2354	443						
06/01/82					4567	627						
06/07/82					7277	736						
06/14/82					6559	563						
06/21/82					5412	625						
06/28/82					7051	680						
07/06/82					3959	510						
08/02/82					7435	703						
08/23/82					3074	899						
09/07/82					6095	635						
10/04/82					5156	506						
11/01/82					3048	561						
11/04/82					3258	593						
12/06/82					2734	569						
12/21/82					5081	851						
01/04/83					2725	617						
02/07/83					2516	526						
02/09/83					2370	557						
03/07/83					1867	524						
06/06/83					2744	551						

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HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
09/07/83	19	19	6	28								
12/06/83	15	16	21	27								
12/08/83					3360	1060						
03/05/84	38	28	51	31	3400	1300						
04/05/84	15	21	12	26								
06/04/84	70	36	28	30	3690	530						
06/05/85	3	0	18	11								

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HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
01/02/75	760				34319	1421						
01/09/75	1500				32488	1355						
01/16/75	870				31694	981						
01/23/75	1100				48199	2427						
01/30/75	1000				48376	2498						
02/06/75	1500				29755	963						
02/13/75	870				28602	935						
02/20/75	940				39080	3222						
03/06/75	580				8907	1768						
03/13/75	530				11211	1665						
03/20/75	630				37178	1086						
03/31/75	600				11583	892						
04/17/75	770				20538	1109						
04/24/75	1200		5700		55300	3000						
05/01/75	1400		8800		29232	908						
05/08/75	1200		12000		32401	995						
05/15/75	7600		8900									
05/22/75	310		2700		19818	792						
05/29/75	340		21000		6906	640						
06/05/75	460		2100		24815	863						
06/12/75	390		10000		16851	1019						
06/19/75	650		7900		24612	1195						
06/26/75	280		6700		32349	981						
07/03/75	49		9700		36527	549						
07/10/75	660		7600		37868	1052						
07/17/75	1200		13000		36639	1049						
07/24/75	1200		34000		23693	863						
07/31/75	990		13000		42238	1133						
08/07/75	940		9300		44237	1166						
08/14/75	360		3200		12410	614						

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HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
08/21/75	3000		6600		41112	1120						
08/28/75	1500		3700		47309	601						
09/04/75	1700		4900		52397	1265						
09/11/75	2300		7800		51105	1242						
09/18/75	2100		5100		56514	1332						
09/25/75	2300		3400		54649	1307						
10/02/75	3000		4500		53569	1328						
10/09/75	1400		14000		53425	1315						
10/16/75	2100		5300		52398	1261						
10/23/75	2100		4200		66539	1452						
10/30/75	1700		2400		29660	960						
11/06/75	1300		3000		37837	773						
11/13/75	2000		3000		44494	1662						
11/21/75	1300		5900		58754	771						
12/04/75	4500		5400		47695	1199						
12/11/75	3700		6000		68963	1475						
12/18/75	2400		5700		72940	1490						
12/26/75	2200		7200		78806	2216						
01/08/76	2400		6600									
01/15/76	2200		6000									
01/22/76	1700		6500									
01/29/76	1900		5000									
02/05/76	2000		5400									
02/12/76	2200		4700									
02/19/76	1500		5900									
02/26/76	1500		2300									
03/04/76	1300		2500									
03/11/76	320		940									
03/18/76	710		1800									
03/25/76	840		3400									

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HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
04/01/76	640		920									
04/08/76	870		3000									
04/15/76	2000		4600									
04/22/76	2200		720									
04/29/76	630		3900									
05/06/76	740		3100									
05/13/76	560		4400									
05/20/76	590		450									
05/27/76	680		1900									
06/03/76	700		1900									
06/10/76	1300		5000									
06/17/76	1300		5100									
06/24/76	2050		4300									
07/01/76	3300		5200									
07/08/76	7400		3700									
07/22/76	330		2700									
07/29/76	880		4400									
08/05/76	880		1600									
08/12/76	1500		4200									
08/19/76	1400		3400									
08/26/76	4200		7400									
09/02/76	2400		3900									
09/09/76	880		1300									
09/16/76	300		400									
09/30/76	1000		2700									
10/07/76	600		4200									
10/14/76	900		1100									
10/21/76	1300		6900									
10/28/76	650		7700									
11/04/76	1200		2000									

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HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
11/11/76	1400		6500									
11/18/76	500		4500									
11/24/76	1550		5800									
12/02/76	1600		5200									
12/09/76	1600		4700									
12/16/76	1400		5900									
12/22/76	1300		5200									
12/29/76	2600		4600									
01/06/77	1700		8100									
01/13/77	1900		7300									
01/20/77	3500		2300									
02/03/77	4200		1400									
02/10/77	3600		4700									
02/27/77	3800		3300									
03/03/77	1500		3800									
03/10/77	1700		7800									
03/17/77	1100		2100									
03/24/77	6500		17000									
04/07/77	680		1300									
04/14/77	1100		3000									
04/21/77	860		1400									
04/28/77	1700		2600									
05/05/77	430		2900									
05/12/77	1000		3100									
05/19/77	650		3100									
05/26/77	430		3800									
06/02/77	930		4400									
06/09/77	1000		3100									
06/16/77	450		630									
06/23/77	1300		4200									

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HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
06/30/77	880		4900									
07/07/77	2000		5100									
07/14/77	1500		4200									
07/21/77	220		960									
07/28/77	820		2200									
08/04/77	1200		3500									
08/11/77	540		1600									
08/18/77	1400		3200									
08/25/77	1300		2600									
09/01/77	360		2600									
09/08/77	640		2800									
09/15/77	750		2600									
09/22/77	2500		3100									
09/29/77	1500		3300									
02/27/78	1000				17835	1869						
05/04/78	51		57									
05/11/78	110		250									
05/18/78	170		590									
05/25/78	45		30									
06/01/78	13		29									
06/08/78	20		9									
06/22/78	920		1400									
06/29/78	730		1100									
04/19/79	40		75		7567	848						
04/26/79	23		50		7913	519						
05/03/79	52		93		5454	546						
05/10/79	59		219		4895	531						
05/18/79	98		73		7030	837						
05/21/79	75		61		6208	743						
05/31/79	60		173		6839	703						

SUMP 1
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
06/07/79	38		64		7164	862						
06/14/79	60		118		6059	569						
06/21/79	56		58		4839	654						
12/06/79	78		<5		2792	406						
01/17/80	359		68		3592	564						
01/24/80	228		73		4873	658						
01/31/80	15		14		3225	595						
02/07/80	39				3697	597						
02/14/80	71		14		3969	637						
02/21/80	6		22		4108	498						
02/28/80	43		29		4115	649						
03/06/80	60		32		3661	379						
03/13/80	70		8		3002	535						
03/20/80	83		40		2509	546						
03/27/80	155	98	142	202	2086	446						
04/03/80	67	60	38	154	4681	383						
04/09/80	35	59	46	184	4008	630						
04/17/80	17	168	75	108	4883	531						
04/24/80	48	56	120	182	3115	589						
05/01/80	520	335	66	170	3856	634						
05/08/80	121	81	156	221	4140	491						
05/15/80	88	85	166	190	3810	479						
05/22/80	151	93	181	198	4297	571						
05/27/80	114	36	114	199	3870	518						
06/05/80	940	319	1962	482	15257	827						
06/12/80	774	246	2242	537	15479	531						
06/19/80	962	324	2469	552	18726	602						
06/26/80	359	346	2124	468	22324	617						
07/03/80	1600	600	3200	800	26121	495						
07/10/80	2340	934	3788	388	30798	1048						

SUMP 1
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
07/17/80	1122	391	2541	584	23703	824						
07/24/80	1679	609	373	887	27695	995						
07/31/80	1985	790	2808	653	25906	726						
08/07/80	1624	709	3197	1315	25047	913						
08/14/80	2358	936	3236	1262	25527	673						
08/21/80	2144	775	3295	1343	24703	773						
08/28/80	2499	925	3115	1309	25343	660						
09/04/80	1654	756	4339	1501	25191	933						
09/11/80	151	327	441	810	4686	486						
09/18/80	1221	555	463	932	5539	453						
09/25/80	737	409	1754	961	8848	693						
10/02/80	3884	1311	761	889	11310	600						
10/09/80	632	427	2184	982	16114	594						
10/16/80	2343	924	2370	1168	22511	692						
10/23/80	1694	818	2035	1164								
10/30/80	1300	777	2552	1053	21804	871						
11/06/80	1665	751	2203	1196	22343	799						
11/13/80	4642	2441	1096	753	22266	671						
11/20/80	1535	660	1041	758	29275	637						
12/04/80	2522	1112	3354	1226	35047	878						
12/11/80	1662	832	4890	1724	32600	775						
12/18/80	1626	722	3855	1273	31148	1006			(11		32	
01/08/81					30001	1077						
01/09/81												
01/15/81					30161	1048						
01/22/81					28928	843						
01/29/81					28357	731						
02/05/81					28380	1080						
02/12/81					23272	675						
02/19/81					27662	882						

SUMP 1
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
02/26/81					27170	852						
03/12/81					7288	701						
03/26/81					17907	1030						
04/02/81					11452	613						
04/09/81					16705	684						
04/16/81					25249	974						

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SUMP 2
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
01/02/75	740				38440	1471						
01/09/75	960				37230	1421						
01/16/75	850				35386	1016						
01/23/75	830				45660	2282						
01/30/75	470				48510	2382						
02/06/75	1400				34113	988						
02/13/75	710				33534	973						
02/20/75	440				39534	3107						
02/27/75	1400				3558	1645						
03/06/75	5200				1947	1664						
03/13/75	190				3621	1588						
03/20/75	81				7097	870						
03/31/75	280				7238	911						
04/10/75	210				20304	1100						
04/17/75	900				2438	1214						
04/24/75	540		6000		18400	2000						
05/01/75	610		2600		26139	877						
05/08/75	240		1600		29627	932						
05/15/75	400		4800									
05/22/75	210		2800		15190	714						
05/29/75	240		2300		7680	3807						
06/05/75	250		2500		28339	917						
06/12/75	450		7300		22386	1171						
06/19/75	170		2200		34714	1440						
06/26/75	770		3400		36217	1022						
07/03/75	19		3300		41288	566						
07/10/75	1200		5300		43494	1119						
07/17/75	2500		4300		45250	1158						
07/24/75	1600		4200		41915	1090						
07/31/75	2300		13000		47043	1180						

SUMP 2
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
08/07/75	2700		12000		48377	1201						
08/14/75	1500		2300		26841	900						
08/21/75	2900		3200		44685	1134						
08/28/75	3000		1800		47757	596						
09/04/75	2100		1700		48830	1224						
09/11/75	2000		1400		47690	1175						
09/18/75	1000		1600		50151	1212						
09/25/75	2000		2000		47567	1686						
10/02/75	2500		1400		46988	1171						
10/09/75	1300		2200		53812	1763						
10/16/75	2100		1500		43451	1126						
10/23/75	1800		3100		49677	1215						
10/30/75	1300		1300		41071	1139						
11/06/75	1400		2000		41440	801						
11/13/75	1400		1200		34991	1462						
11/21/75	1100		1200		39342	625						
12/04/75	960		1400		32229	959						
12/11/75	1400		1300		35739	1033						
12/18/75	620		1100		35235	1024						
12/26/75	360		1700		33198	1386						
01/08/76	410		1700									
01/15/76	440		960									
01/22/76	1500		1800									
01/29/76	700		1500									
02/05/76	640		1200									
02/12/76	870		1400									
02/19/76	450		1200									
02/26/76	42		440									
03/04/76	140		190									
03/11/76	150		490									

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
03/18/76	150		1000									
03/25/76	120		580									
04/01/76	49		130									
04/08/76	180		270									
04/15/76	67		330									
04/22/76	500		370									
04/29/76	660		1300									
05/06/76	420		790									
05/13/76	310		1300									
05/20/76	670		210									
05/27/76	310		830									
06/03/76	240		930									
06/10/76	1200		1200									
06/17/76	1500		4600									
06/24/76	890		1250									
07/01/76	1300		1300									
07/08/76	5200		6600									
07/22/76	880		2400									
07/29/76	1400		2200									
08/05/76	1100		1700									
08/12/76	1400		1500									
08/19/76	1500		1500									
08/26/76	4200		7100									
09/02/76	1500		4900									
09/09/76	1400		1500									
09/16/76	1600		2600									
09/30/76	1000		1600									
10/07/76	1100		1800									
10/14/76	1200		4500									
10/21/76	1600		4200									

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
10/28/76	550		5800									
11/04/76	1000		1500									
11/11/76	300		4500									
11/18/76	800		1900									
11/24/76	200		600									
12/02/76	1700		2300									
12/09/76	1200		3400									
12/16/76	1300		6300									
12/22/76	1100		900									
12/29/76	990		3800									
01/06/77	1300		3400									
01/13/77	580		3800									
01/20/77	2000		1500									
01/27/77	1800		4500									
02/03/77	1200		480									
02/10/77	770		870									
03/03/77	1200		3600									
03/10/77	1400		390									
03/17/77	880		670									
03/24/77	3100		4000									
03/31/77	1400		3700									
04/07/77	34		220									
04/14/77	1700		1100									
04/21/77	480		340									
04/28/77	760		790									
05/05/77	970		930									
05/12/77	1100		1100									
05/19/77	350		670									
05/26/77	480		1100									
06/02/77	1000		940									

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
06/09/77	700		1100									
06/16/77	2100		1300									
06/23/77	1100		990									
06/30/77	1500		2100									
07/07/77	1000		1300									
07/14/77	1200		1100									
07/21/77	660		740									
07/28/77	1330		1110									
08/04/77	920		2400									
08/11/77	1700		3000									
08/18/77	2100		2600									
08/25/77	1800		1800									
09/01/77	590		2100									
09/08/77	2500		1900									
09/15/77	1200		1700									
09/22/77	3100		1300									
09/29/77	1800		1700									
10/20/77	1700		2100									
10/27/77	1700		1700									
11/03/77	1900		1500									
11/10/77	1600		1400									
11/17/77	1100		1200									
12/01/77	1200		1600									
12/08/77	1600		1600									
12/15/77	360		1200									
12/22/77	360		280									
12/29/77	680		630									
01/05/78	1000		630									
01/12/78	370		610									
03/09/78	190		130									

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
03/16/78	360		300									
03/23/78	330		340									
03/30/78	480		350									
04/06/78	460		250									
04/13/78	1100		950									
04/20/78	1800		960									
04/27/78	770		750									
05/04/78	1900		1200									
05/11/78	380		340									
05/18/78	460		360									
05/25/78	950		665									
06/01/78	370		470									
06/08/78	330		760									
06/15/78	40		1000									
06/22/78	1000		1000									
06/29/78	3700		1100									
07/06/78	260		1400									
07/13/78	1500		1500									
07/20/78	1800		1700									
07/27/78	1500		1800									
08/03/78	920		480									
08/10/78	1900		1600									
08/17/78	412		1100									
08/24/78	596		2100									
08/31/78	1500		2500									
09/07/78	5700		2700									
09/14/78	1100		2200									
09/21/78	14000		2400									
09/28/78	1200		2600									
10/05/78	6100		2000									

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
10/12/78	3200		1900									
10/19/78	4700		2300									
10/26/78	1100		1400									
11/02/78	1100		3000									
11/09/78	3300		2600									
11/16/78	1800		3000									
11/30/78	6300		2000									
12/14/78	3100		2000									
12/21/78	3600		1900									
01/04/79	6900		1500									
01/11/79	2300		1600									
01/18/79	1400		1400									
01/25/79	1800		1500									
02/01/79	3200		2500									
02/08/79	1600		1500									
02/15/79	1200		1000									
02/22/79	601		1016									
03/01/79	212		1600		32143	1113						
03/08/79	13000		1300		28880	965						
03/15/79	6300		1500		27210	1154						
03/22/79	48		463									
03/29/79	1614		1410		15345	363						
04/02/79	539		451		1504	872						
04/19/79	2400		1300		20415	1013						
04/26/79	58		926		24658	695						
05/03/79	1500		364		7403	559						
05/10/79	673		316		6947	639						
05/18/79	1100		1700		25011	1127						
05/21/79	5100		1600		23564	1030						
05/31/79	486		1000		17352	774						

SUMP 2
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
06/07/79	332		2400		28375	1146						
06/14/79	264		2000		23227	840						
06/21/79	491		2300		28108	1194						
06/28/79	942		2400		30339	1127						
07/05/79	509		3300		33961	904						
07/12/79	1600		2200		31859	1154						
07/19/79	732		3400		35418	1299						
07/26/79	892		3400		34464	987						
08/02/79	417		3400		36116	1244						
08/16/79	729		1900									
08/23/79	19		1800									
08/30/79	219		3200									
09/06/79	568		2600		35348	835						
09/13/79	731		4100		40630	1341						
09/20/79	709		3800		37861	990						
09/27/79					39004	1214						
10/11/79	201		3600									
10/18/79	467		3500									
10/25/79	2400		3900									
11/08/79	441		3200									
11/15/79	481		1600									
11/29/79	1800		1500									
12/06/79	260		629		14468	603						
12/13/79	81		963		18158	705						
12/20/79	2200		1400		27003	1300						
01/03/80	954		820		15454	658						
01/10/80	2300		854		17475	694						
01/17/80	1400		1200		20120	1008						
01/24/80	3400		1200		21914	898						
01/31/80	669		409		22201	936						

SUMP 2
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
02/07/80	991		<5		21222	896						
02/14/80	1300		1300		21144	973						
02/21/80	887		209		18668	733						
02/28/80	3000		2200		20581	909						
03/06/80	1600		1200		19683	612						
03/13/80	1100		254		19207	857						
03/20/80	1500		1100		1830	898						
03/27/80	2300	1200	1096	348	17079	663						
04/03/80	584	209	822	301	8127	404						
04/09/80	832	341	596	262	12793	812						
04/17/80	855	324	625	257	10998	684						
04/24/80	282	165	441	225	3268	686						
05/01/80	1830	907	297	216	7388	728						
05/08/80	536	188	566	284	7245	543						
05/15/80	824	318	567	258	8012	570						
05/22/80	1220	522	919	312	9743	707						
05/27/80	955	49	739	276	11559	666						
06/05/80	1343	445	1155	350	18137	399						
06/12/80	2294	892	1664	440	18121	561						
06/19/80	2957	1500	1467	433	20121	638						
06/26/80	1147	496	1352	376	20715	606						
07/03/80	3000	1400	1700	460	22144	474						
07/10/80	2301	831	1600	440	24891	646						
07/17/80	1172	409	2617	637	23357	800						
07/24/80	2303	913	2172	565	24953	976						
07/31/80	1320	447	1377	480	25244	764						
08/07/80	3791	1283	1740	1052	25764	965						
08/14/80	3436	1164	3136	1303	25624	689						
08/21/80	2774	1003	1797	1088	21933	724						
08/28/80	2086	816	1954	1116	22972	751						

SUMP 2
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
09/04/80	3248	1069	2298	1167	27728	987						
09/11/80	3133	1033	1727	1091	26804	790						
09/18/80	1119	555	150	963	25635	695						
09/25/80	2519	961	2284	1106	22573	957						
10/02/80	7710	2490	1205	987	23214	751						
10/09/80	3335	1469	2505	1063	19013	612						
10/16/80	2945	1103	1407	1026	23534	705						
10/23/80	3886	1549	2513	1173								
10/30/80	3422	1353	1795	873	24113	898						
11/06/80	3154	1320	2480	1138	26221	835						
11/13/80	8667	3130	1316	886	25886	701						
11/20/80	2604	1103	215	182	25619	620						
12/04/80	2079	858	2897	1258	22545	742						
12/11/80	1316	720	2236	1128	73782	708						
12/18/80	1786	828	3161	1181	22247	937			33		<36	
01/08/81					20051	942						
01/09/81												
01/15/81					16295	855						
01/22/81					16022	677						
01/29/81					15848	594						
02/05/81					17356	893						
02/19/81					8976	577						
02/26/81					13821	660						
03/12/81					9259	733						
03/19/81					10710	623						
03/26/81					15300	353						
04/09/81					16135	705						
04/16/81					16412	349						
04/22/81					13142	785						

SUMP 3

SUMP 3
RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
01/02/75	160				6802	703						
01/09/75	230				12253	886						
01/16/75	180				25921	873						
01/23/75	260				7138	1754						
01/30/75	200				10233	1810						
02/06/75	430				17192	734						
02/13/75	230				29118	904						
02/20/75	54				8770	2425						
02/27/75	820				20124	1814						
03/06/75	260				20932	1869						
03/13/75	530				21215	1793						
03/20/75	250				2157	968						
03/31/75	400				9498	776						
04/10/75	58				22347	1150						
04/17/75	300				13353	890						
04/24/75	400		740		8700	1000						
05/01/75	310		380		19648	778						
05/08/75	310		2000		22433	806						
05/15/75	340		2200									
05/22/75	250		2300		12760	641						
05/29/75	75		9000		3667	588						
06/05/75	230		6600		19848	773						
06/12/75	120		4500		17936	1072						
06/19/75	130		1700		12000	361						
06/26/75	63		1300		8402	740						
07/03/75	7		1000		20340	416						
07/10/75	130		4100		8712	545						
07/17/75	300		4000		17790	746						
07/24/75	440		3100		20774	794						
07/31/75	590		3100		23220	856						

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HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
08/07/75	400		5600		14945	708						
08/14/75	530		2100		11283	604						
08/21/75	140		1100		13154	645						
08/28/75	1000		9500		15595	366						
09/04/75	640		2000		16406	719						
09/11/75	900		390		12481	651						
09/18/75	330		350		13998	684						
09/25/75	100		160		13252	907						
10/02/75	450		880		13959	676						
10/09/75	130		330		13216	915						
10/16/75	280		480		11471	612						
10/23/75	160		670		11783	630						
10/30/75	130		3600		10624	624						
11/06/75	1000		870		11359	461						
11/13/75	230		560		17502	1011						
11/21/75	250		840		14933	412						
12/04/75	250		110		16319	734						
12/11/75	1100		480		11502	606						
12/18/75	150		170		15593	704						
12/26/75	210		320		12886	336						
01/08/76	1200		940									
01/15/76	58		2700									
01/22/76	310		930									
01/29/76	210		720									
02/05/76	430		350									
02/12/76	460		170									
02/19/76	140		52									
02/26/76	260		170									
03/04/76	170		250									
03/11/76	62		240									

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HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
03/18/76	100		60									
03/25/76	67		490									
04/01/76	120		500									
04/08/76	73		400									
04/15/76	420		890									
04/22/76	370		350									
04/29/76	130		3300									
05/06/76	58		290									
05/13/76	120		4200									
05/20/76	55		150									
05/27/76	120		180									
06/03/76	200		200									
06/10/76	410		690									
06/17/76	200		700									
06/24/76	330		390									
07/01/76	140		180									
07/08/76	710		220									
07/22/76	250		670									
07/29/76	340		1400									
08/05/76	600		500									
08/12/76	150		1000									
08/19/76	200		2500									
08/26/76	3700		7100									
09/02/76	420		1200									
09/09/76	150		1000									
09/16/76	300		4600									
09/30/76	350		800									
10/07/76	100		100									
10/14/76	600		5300									
10/21/76	350		1200									

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HISTORICAL DATA

SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
10/28/76	340		5700									
11/04/76	500		350									
11/11/76	100		900									
11/18/76	100		2100									
11/24/76	200		1000									
12/02/76	300		900									
12/09/76	600		1700									
12/16/76	300		2000									
12/22/76	200		500									
12/29/76	340		110									
01/06/77	2900		1800									
01/13/77	340		970									
01/20/77	380		6800									
01/27/77	500		2900									
02/03/77	290		1300									
02/10/77	470		420									
03/03/77	190		170									
03/10/77	180		220									
03/17/77	310		480									
03/24/77	1300		1400									
03/31/77	730		620									
03/31/77	180		410									
04/07/77	44		91									
04/14/77	32		260									
04/21/77	220		140									
04/28/77	120		2100									
05/05/77	220		390									
05/12/77	240		300									
05/19/77	110		110									
05/26/77	450		45									

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SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
06/02/77	59		51									
06/09/77	190		310									
06/16/77	540		3900									
06/23/77	190		340									
06/30/77	120		320									
07/07/77	74		120									
07/14/77	92		340									
07/21/77	84		650									
07/28/77	200		350									
08/04/77	230		570									
08/11/77	100		340									
08/18/77	200		580									
08/25/77	87		350									
09/01/77	74		270									
09/08/77	110		480									
09/15/77	42		150									
09/22/77	140		330									
09/29/77	1100		2300									
10/20/77	240		250									
10/27/77	260		200									
11/03/77	68		160									
11/10/77	190		2900									
11/17/77	200		290									
12/01/77	130		250									
12/08/77	48		180									
12/15/77	170		150									
12/22/77	77		78									
12/29/77	90		150									
01/05/78	150		170									
01/12/78	30		77									

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SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
01/19/78	58		290									
01/26/78	69		230									
02/02/78	60		210									
02/09/78	67		120									
02/16/78	78		90									
02/23/78	140		220									
03/02/78	120		300									
03/09/78	52		190									
03/16/78	82		140									
03/23/78	36		39									
03/30/78	86		31									
04/06/78	66		49									
04/13/78	100		31									
04/20/78	96		91									
04/27/78	74		190									
05/04/78	26		65									
05/11/78	54		60									
05/18/78	170		160									
05/25/78	101		314									
06/01/78	49		24									
06/08/78	73		190									
06/15/78	2200		190									
06/22/78	81		420									
06/29/78	250		570									
07/06/78	160		410									
07/13/78	100		200									
07/20/78	290		510									
07/27/78	130		480									
08/03/78	120		580									
08/10/78	120		380									

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SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
08/17/78	100		534									
08/24/78	141		320									
08/31/78	111		290									
09/07/78	192		242									
09/14/78	48		58									
09/21/78	154		448									
09/28/78	120		241									
10/05/78	125		185									
10/12/78	158		268									
10/19/78	226		304									
10/26/78	125		310									
11/02/78	335		356									
11/09/78	99		134									
11/16/78	297		244									
11/30/78	753		311									
12/07/78	147		376									
12/14/78	118		348									
12/21/78	167		76									
01/04/79	135		157									
01/11/79	141		335									
01/18/79	130		320									
01/25/79	264		375									
02/01/79	165		450									
02/08/79	203		379									
02/15/79	170		178									
02/22/79	611		1036									
03/01/79	102		2000		13298	810						
03/08/79	80		265		10647	790						
03/15/79	132		165		6771	692						
03/22/79	17		132									

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SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
03/29/79	277		332		9906	792						
04/02/79	96		64		1504	872						
04/19/79	55		82		9677	1070						
04/26/79	157		300		12646	556						
05/03/79	42		27		3994	623						
05/10/79	40		35		3621	616						
05/18/79	150		189		10359	855						
05/21/79	116		180		9564	837						
05/31/79	51		120		3547	597						
06/07/79	14		13		4619	747						
06/14/79	78		164		7368	852						
06/21/79	125		58		10166	904						
06/28/79	98		350									
07/05/79	126		646		6414	541						
07/12/79	<5		303		6907	615						
07/19/79	68		470		6859	640						
07/26/79	85		288		7709	620						
08/02/79	133		360		7068	633						
08/09/79	45		45									
08/16/79	114		282									
08/23/79	<5		303									
08/30/79	131		190									
09/07/79					9805	494						
09/13/79	31		284		9189	709						
09/20/79	63		205		7326	513						
09/27/79					9806	765						
10/11/79	131		78									
10/18/79	148		248									
10/25/79	106		265									
11/08/79	9		303									

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SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
11/15/79	125		138									
12/06/79	144		46		6347	408						
12/13/79	697		105		8739	581						
12/20/79	157		159		11951	879						
01/03/80	111		148		9363	552						
01/10/80	123		119		10055	623						
01/17/80	283		41		10681	821						
01/24/80	176		183		10512	683						
01/31/80	13		76		11554	731						
02/07/80	61		354		7910	775						
02/14/80	117		130		9249	664						
02/21/80	30		15		9905	575						
02/28/80	304		112		9432	730						
03/06/80	134		229		10647	494						
03/13/80	241		36		6094	780						
03/20/80	86		94		16110	969						
03/27/80	176	106	207	186	9336	558						
04/03/80	432	209	196	189	9683	438						
04/09/80	10	83	37	186	4979	668						
04/17/80	122	33	127	192	8813	662						
04/24/80	76	111	181	148	1309	574						
05/01/80	0	206	123	175	2574	632						
05/08/80	31	62	73	248	3208	495						
05/15/80	52	82	91	173	1829	457						
05/22/80	100	71	123	186	3607	586						
05/27/80	200	131	263	222	6333	558						
06/05/80	60	69	63	184	4023	604						
06/12/80	104	89	154	207	7347	452						
06/19/80	160	92	283	239	6191	463						
06/26/80	64	82	219	197	7347	508						

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SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
07/03/80	176	97	155	207	5234	364						
07/10/80	161	96	249	209	5411	407						
07/17/80	266	184	196	209	6872	595						
07/24/80	123	94	128	176	4327	576						
07/31/80	125	102	1112	519	5842	562						
08/07/80	172	103	178	190	5259	602						
08/14/80	114	81	456	268	6289	455						
08/21/80	137	83	82	182	3762	461						
08/28/80	108	97	133	163	4698	481						
09/04/80	91	88	108	183	4253	549						
09/11/80	105	75	149	184	4946	481						
09/18/80	197	123	72	202	4098	412						
09/25/80	131	111	89	179	4413	625						
10/02/80	719	269	108	183	5304	519						
10/09/80	60	31	101	186	5320	447						
10/16/80	255	163	162	180	5605	487						
10/23/80	100	97	-9	164								
10/30/80	319	165	139	192	4972	558						
11/06/80	266	141	156	173	5449	550						
11/13/80	370	284	274	181	6732	530						
11/20/80	100	81	34	167	4243	444						
12/04/80	198	124	310	239	5149	496						
12/11/80	156	80	180	177	5924	494						
12/18/80	67	97	153	171	3575	561			4.9		<36	
01/08/81					3743	660						
01/15/81					3828	591						
01/22/81					4533	490						
01/29/81					4684	440						
02/05/81					3760	629						
02/12/81					4817	415						

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SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
02/19/81					6603	575						
02/26/81					5016	523						
03/05/81					5444	499						
03/12/81					2610	587						
03/19/81					2803	476						
03/26/81					5625	620						
04/02/81					3620	499						
04/09/81					3578	492						
04/16/81					8455	708						
04/22/81					8443	742						

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SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
09/27/76					7119	599						
03/29/79	844		344		6015	696						
04/02/79	124		56		3487	689						
04/19/79	253		88		5660	887						
04/26/79	430		273		5622	442						
05/03/79	79		36		3078	603						
05/10/79	74		65		3347	605						
05/18/79	234		126		5279	692						
05/21/79	236		190		12340	2117						
05/31/79	50		156		2607	575						
06/07/79	80		159		7092	859						
06/14/79	167		269		6069	864						
06/21/79	240		165		8294	1251						
06/23/79	305		208		5378	556						
07/05/79	316		218		8216	671						
07/12/79	240		297		7194	675						
07/19/79	308		360		6018	632						
07/26/79	236		320		8516	736						
08/02/79	68		83		4652	791						
08/09/79	125		102									
08/16/79	113		274									
08/23/79	248		304									
08/30/79	288		426									
09/07/79					3039	421						
09/13/79	463		509		7165	653						
09/20/79	473		358		7562	503						
10/11/79	432		290									
10/18/79	185		260									
10/25/79	420		208									
11/08/79	389		176									

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SAMPLE DATE	ALPHA PCI/L	ALPHA ERROR	BETA PCI/L	BETA ERROR	TRITIUM PCI/L	TRITIUM ERROR	STRONTIUM 90 PCI/L	STRONTIUM 90 ERROR	PLUTONIUM 239 PCI/L	PLUTONIUM 239 ERROR	AMERICIUM 241 PCI/L	AMERICIUM 241 ERROR
11/15/79	566		225									
12/06/79	470		258		4154	549						
12/13/79	357		276		7039	568						
12/20/79	436		228		6327	682						
01/03/80	419		339		5317	480						
01/10/80	397		156		5485	471						
01/17/80	377		210		5260	609						
01/24/80	425		128		5598	591						
01/31/80	64		61		6294	612						
02/07/80	166		26		4780	707						
02/14/80	306		187		4716	524						
02/21/80	17		5		4936	496						
02/28/80	387		79		5979	969						
03/06/80	204		149		5507	414						
03/13/80	268		36		5899	780						
03/20/80	233		105		4310	597						
03/27/80	255	136	210	188	4404	487						
04/03/80	107	74	110	158	1046	392						
04/09/80	254	124	82	186	4874	666						
04/17/80	231	130	33	171	4388	504						
04/24/80	141	97	139	198	U/=745							
05/01/80	162	142	-28	130	1357	579						
05/08/80	57	51	12	240	2203	476						
05/15/80	64	62	83	189	1349	443						
05/22/80	158	91	172	197	1535	542						
05/27/80	104	32	191	20	4195	516						
06/05/80	29	48	144	172	552	535						
06/12/80	130	32	193	194	5341	485						
06/19/80	318	144	446	262	5450	465						
06/26/80	97	116	180	206	6307	513						

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SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
07/03/80	362	160	172	217	5386	358						
07/10/80	307	128	252	244	6756	415						
07/17/80	372	157	239	210	5750	523						
07/24/80	344	162	289	211	7209	684						
07/31/80	362	169	290	224	7322	564						
08/07/80	551	223	638	270	9412	681						
08/14/80	380	155	237	223	5509	446						
08/21/80	357	148	446	243	5586	493						
08/28/80	231	111	168	188	3993	462						
09/04/80	116	76	121	179	2857	566						
09/11/80	461	169	203	216	4851	480						
09/18/80	179	98	113	192	3674	412						
09/25/80	246	130	220	200	2884	590						
10/02/80	5407	2793	80	179	2585	473						
10/09/80	96	44	179	168	2454	408						
10/16/80	222	110	110	172	2367	431						
10/23/80	134	87	96	162								
10/30/80	469	206	282	181	3362	524						
11/06/80	293	157	192	196	3128	570						
11/13/80	1389	557	43	140	3466	488						
11/20/80	279	151	108	184	5851	472						
12/04/80	360	145	201	215	5233	436						
12/11/80	224	130	447	223	4896	471						
12/18/80	181	116	542	247	6096	625			<1.3		<26	
01/08/81					7162	895						
01/15/81					6409	628						
01/22/81					6857	563						
01/29/81					6350	473						
02/05/81					7664	516						
02/12/81					6237	470						

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RADIOCHEMISTRY
HISTORICAL DATA

SAMPLE DATE	ALPHA		BETA		TRITIUM		STRONTIUM 90		PLUTONIUM 239		AMERICIUM 241	
	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR	PCI/L	ERROR
02/19/81					3610	520						
02/26/81					4591	516						
03/05/81					1944	499						
03/12/81					765	559						
03/26/81					3525	599						
04/02/81					?							
04/09/81					2685	479						
04/16/81					1381	546						
04/22/81					953	539						

APPENDIX D-3

INORGANICS

207 SOLAR PONDS

SOLAR POND 207C
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	CHLORIDE MG/L	CYANIDE MG/L	FLUORIDE MG/L	SULFATE MG/L	TDS MG/L	CHROME 6 MG/L	PHENOL	SURFACTANTS MG/L
05/15/74	31600	9.5	6200	350	780	29100	276000	0.05	0.014	0.48
05/15/75	37700	9.5		50			283400			
12/15/75	64100	9.7		NA			302400			
04/15/76	21000	9.8		0.39			230100			
08/15/76	37500	9.7		1.0			282200			
04/15/77	31000	9.5		0.2			215000			
08/15/77	24000	9.5		0.4			186240			
11/15/77	40000	9.5					300000			
12/15/77	48800	9.6					373000			
01/15/78	46000	9.6					354000			
02/15/78	43900	9.6					333200			
03/15/78	46300	9.6					357200			
04/15/78	48900	9.5					356700			
05/15/78	8400	9.7					61260			
06/15/78	10800	9.5					81040			
07/15/78	19000	9.6					138630			
08/15/78	20000	9.6		2.4			150000			
08/16/78	36000	9.7					257320			
09/15/78	36700	9.8					273280			
10/15/78	20500	9.3					144750			
11/15/78	13000	9.6					96460			
12/15/78	19000	9.4					141750			
01/15/79	23600	9.6					171700			
03/15/79	27600	9.7					169760			
07/23/79	11600	10.2					90120			
08/15/79		10.3					97000			
09/15/79		10.4					117180			
07/10/80		9.9					54513			
08/06/80		9.7					47459			
08/12/80		9.7					47500			

SOLAR POND 207C
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	CHLORIDE MG/L	CYANIDE MG/L	FLUORIDE MG/L	SULFATE MG/L	TDS MG/L	CHROME 6 MG/L	PHENOL	SURFACTANTS MG/L
09/12/80		9.7					48902			
09/15/80		9.7					48900			
10/15/80		9.4					26942			
10/15/80		9.4					26900			
11/24/80		9.8					28487			
12/03/80		10.0					48335			
01/27/81		10.0					51635			
02/25/81		10.1					31930			
03/12/81		9.8					19370			
04/28/81		9.5					17380			
05/15/81		9.7					19871			
06/23/81		10.1					18600			
07/29/81		10.2					22300			
09/15/81	4900	10.1		2.4			38224		4900	
10/28/81	5000	10.0		12.9			31600			
07/06/82		10.5					275			
08/03/82		10.6					10396			
10/07/82	640	10.4					12391			
12/06/82		9.4					261			
03/22/84	0.4	9.7					2090			
06/05/84	2650	9.6					2109			
09/13/84	7100	10.0					66757			
12/05/84	7050	9.8					66432			
03/25/85	2593	7.7		1.9			27304			
06/25/85	8000	10.7		<0.01			6420			
09/11/85	13841	12.5		<0.1			171135			

SOLAR POND 207A
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	CHLORIDE MG/L	CYANIDE MG/L	FLUORIDE MG/L	SULFATE MG/L	OIL/GREASE MG/L	TDS MG/L	CHROME 6 MG/L	PHENOL	SURFACTANTS MG/L	AMMONIA AS N MG/L	CYANATE MG/L	NITRITE AS N MG/L
09/15/70	23000	9.6	4050		100	4270		183400				7	20	
09/15/73	16900		2900	0.2										
05/15/74	11300	10	3200	650	560	14800	2.6	112400	0.05	0.009	0.59			0.07
12/15/74	21900	9.9												
04/15/75	13500	10.2		4				134800						
12/15/75	18500	10.7		NA				13700						
04/15/76	18000	10.9		0.35				135800						
08/15/76	17400	10.6		0.3				138580						
04/15/77	17000	10.8		2.0				131000						
05/15/77	18000	10.5		0.1				134210						
08/15/78	17000	11.4		2.0				120000						
07/10/80	7100	9.7		4.4				89440						
09/12/80	13400	10.2		16				113000						
09/15/80		10.2						118000						
12/03/80	10260	10.5		9.6				81000						
03/12/81	6328	10.2		1.4				44230						
10/07/82	240	10.9						64917						
03/08/83	924	9.9		2.6				55070						
03/22/83	3790	9.9		<0.1				24000						
06/15/83	998	9.8		<0.1				1300						
09/06/83	3570	10.7		<0.5				25894						
03/05/84	5000	10.5		<0.1				36000						
06/05/84	5150	9.9		0.6				4383						
09/13/84	<1.0	11.0		<0.1				403						
09/13/84	<1.0	11.0		<0.1				403						
12/05/84	5.0	5.3		<0.05				929						
03/05/85	7300	10.0		<0.1				5340						
06/25/85	14800	10.1		<0.01				10360						
09/11/85	21739	10.0		1.7				171976						

SOLAR POND 207B SOUTH
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	SUSPENDED SOLIDS MG/L	BOD MG/L
12/11/78	4.7	7.3			
12/15/78		10.0			
03/02/79		9.9	15		3/3DAYS
04/11/79				4	
08/29/79		7.4			
08/31/79		7.4			
09/04/79		7.4			
09/05/79		7.6			
09/07/79		7.3			
09/10/79		7.5			
09/12/79		7.5			
09/14/79		7.5			
09/17/79		7.2			
09/19/79		8.1			
09/21/79		8.5			
09/24/79		8.1			
09/26/79		7.2			
09/28/79		7.3			
10/01/79		7.5			
10/03/79		7.8			
10/05/79		8.2			
10/08/87		10.0			

SOLAR POND 207B NORTH
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH
05/09/78	5	7.3
12/08/78		
12/15/78		10.1
03/15/83	590	8.7
03/22/83	415	8.0
03/29/83	440	8.1
06/05/84		
06/12/84		
06/19/84	674	9.3
06/26/84	675	9.6
07/03/84		
07/10/84		
07/13/84		
07/24/84		
07/31/84		
10/30/84		
11/06/84		
11/13/84		
11/18/86	451	8.0
12/02/86	432	7.5

SOLAR POND 207B CENTER
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH
03/15/83	349	8.5
03/22/83	10.1	10.7
03/29/83	8.1	10.5
06/05/84		
06/12/84		
06/19/84	1.9	8.2
06/26/84	1.9	8.9
07/03/84		
07/10/84		
07/18/84		
07/24/84		
07/31/84		
10/30/84		
11/06/84		
11/13/84		
11/18/86	503	9.9
12/02/86	343	9.9

774 POND

774 POND
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
01/05/76	123									
01/12/76	18									
01/19/76	47									
01/26/76	57									
02/02/76	44									
02/09/76	2									
02/16/76	37									
02/23/76	11									
03/01/76	34									
03/08/76	14									
03/15/76	61									
03/22/76	42									
03/29/76	25									
04/05/76	25									
04/12/76	111									
04/19/76	32									
04/26/76	32									
05/03/76	38									
05/10/76	57									
05/17/76	73									
05/24/76	32									
05/31/76	128									
06/07/76	226									
06/14/76	103									
06/21/76	110									
06/28/76	162									
07/06/76	169									
07/19/76	123									
07/25/76	51									
08/02/76	51									

774 POND
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
08/09/76	58									
08/16/76	115									
08/23/76	142									
08/30/76	161									
09/07/76	130									
09/13/76	97									
09/27/76	23									
10/04/76	97									
10/11/76	59									
10/18/76	53									
10/25/76	97									
11/01/76	56									
11/08/76	97									
11/15/76	97									
11/22/76	97									
11/29/76	111									
12/06/76	111									
12/13/76	129									
12/20/76	170									
12/27/76	137									
01/03/77	125									
01/10/77	142									
01/17/77	165									
01/24/77	100									
01/31/77	157									
02/07/77	97									
02/28/77	85									
03/07/77	75									
03/14/77	59									
03/21/77	47									

774 POND
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
03/28/77	92									
04/04/77	14									
04/11/77	36									
04/18/77	40									
04/25/77	32									
05/02/77	68									
05/09/77	73									
05/16/77	85									
05/23/77	97									
05/30/77	65									
06/06/77	25									
06/13/77	54									
06/20/77	98									
06/27/77	109									
07/05/77	58									
07/11/77	46									
07/18/77	116									
07/25/77	31									
08/01/77	75									
08/08/77	63									
08/15/77	82									
08/22/77	53									
08/29/77	54									
09/06/77	59									
09/12/77	62									
09/19/77	79									
09/26/77	63									
10/17/77	52									
10/24/77	20									
10/31/77	43									

774 POND
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
11/07/77	29									
11/14/77	32									
11/21/77	55									
12/05/77	73									
12/12/77	75									
12/19/77	45									
12/27/77	75									
01/03/78	90									
01/09/78	102									
01/16/78	120									
01/23/78	77									
01/30/78	79									
02/06/78	57									
02/13/78	70									
02/20/78	46									
02/27/78	55									
03/06/78	24									
03/13/78	43									
03/20/78	79									
03/27/78	21									
04/03/78	33									
04/10/78	17									
04/17/78	15									
04/24/78	79									
05/01/78	8									
05/08/78	23									
05/15/78	43									
05/22/78	77									
05/29/78	64									
06/05/78	37									

774 POND
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
06/12/78	74									
06/19/78	154									
06/26/78	38									
07/03/78	28									
07/10/78	38									
07/17/78	79									
07/24/78	90									
07/31/78	41									
08/07/78	47									
08/14/78	93									
08/21/78	43									
08/28/78	76									
09/05/78	120									
09/11/78	52									
09/18/78	99									
09/25/78	66									
10/02/78	96									
10/09/78	90									
10/16/78	86									
10/23/78	13									
10/30/78	5									
11/06/78	76									
11/13/78	86									
11/20/78	36									
11/27/78	114									
12/04/78	136									
12/11/78	126									
12/18/78	99									
01/02/79	19									
01/08/79	181									

774 POND
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
01/15/79	330									
01/22/79	181									
02/05/79	190									
02/06/79	142									
02/12/79	165									
02/19/79	97									
02/26/79	142									
03/05/79	43									
03/12/79	106									
03/19/79	15									
03/26/79	77									
04/02/79	68									
04/09/79	99									
04/16/79	43									
04/23/79	102									
04/30/79	36									
05/07/79	63									
05/14/79	36									
05/21/79	140									
05/30/79	70									
06/07/79	72									
06/11/79	41									
06/18/79	113									
06/25/79	133									
07/09/79	113									
07/12/79	133									
07/16/79	103									
07/23/79	151									
07/30/79	93									
08/06/79	167									

774 POND
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
08/13/79	84									
08/20/79	24									
08/27/79	124									
09/10/79	133									
09/17/79	84									
10/08/79	113									
10/15/79	108									
10/22/79	11									
11/05/79	6									
11/12/79	76									
11/19/79	18									
11/26/79	129									
12/03/79	15									
12/10/79	90									
12/17/79	86									
01/07/80	79									
01/14/80	136									
01/21/80	68									
01/28/80	209									
02/04/80	180									
09/07/83	60									
12/06/83	51.6									
03/05/84	167									
04/05/84	93.3	3.2								
06/04/84	59.4									
06/05/85	52.0									

SUMP 1

SUMP 1
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
01/02/75	23000									
01/09/75	24600									
01/16/75	25700									
01/23/75	24400									
01/30/75	24000									
02/06/75	23200									
02/13/75	23400									
02/20/75	19100									
03/06/75	3900									
03/13/75	5700									
03/20/75	14600									
03/31/75	7200									
04/17/75	9700									
04/24/75	11200									
05/01/75	16200									
05/08/75	22000									
05/15/75	16800									
05/22/75	16000									
05/29/75	300									
06/05/75	11600									
06/12/75	8700									
06/19/75	11000									
06/26/75	6100									
07/03/75	20400									
07/10/75	21600									
07/17/75	22400									
07/24/75	18200									
07/31/75	17300									
08/07/75	34800									
08/14/75	12000									

SUMP 1
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
08/21/75	27000									
08/28/75	30600									
09/04/75	42000									
09/11/75	6780									
09/18/75	6780									
09/25/75	7800									
10/02/75	7232									
10/09/75	7900									
10/16/75	7900									
10/23/75	3100									
10/30/75	4000									
11/06/75	4900									
11/13/75	5900									
11/21/75	7900									
12/04/75	6500									
12/11/75	3600									
12/18/75	9000									
12/26/75	9700									
01/08/76	9300									
01/15/76	9300									
01/22/76	9300									
01/29/76	7600									
02/05/76	14000									
02/12/76	9500									
02/19/76	9700									
02/26/76	4300									
03/04/76	4000									
03/11/76	600									
03/18/76	3600									
03/25/76	4500									

SUMP 1
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
04/01/76	1300									
04/08/76	5400									
04/15/76	6600									
04/22/76	4500									
04/29/76	3800									
05/06/76	4100									
05/13/76	5000									
05/20/76	5600									
05/27/76	2700									
06/03/76	3800									
06/10/76	4800									
06/17/76	5700									
06/24/76	4500									
07/01/76	4700									
07/08/76	6800									
07/22/76	3000									
07/29/76	4700									
08/05/76	2400									
08/12/76	4900									
08/19/76	5900									
08/26/76	6100									
09/02/76	6100									
09/09/76	970									
09/16/76	560									
09/30/76	3800									
10/07/76	2500									
10/14/76	5500									
10/21/76	6300									
10/28/76	2000									
11/04/76	3600									

SUMP 1
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
11/11/76	5800									
11/18/76	5100									
11/24/76	5900									
12/02/76	6300									
12/09/76	6500									
12/16/76	6600									
12/22/76	6500									
12/29/76	6800									
01/06/77	6800									
01/13/77	7100									
01/20/77	7300									
02/03/77	7700									
02/10/77	7900									
02/27/77	7500									
03/03/77	7500									
03/10/77	6800									
03/17/77	4100									
03/24/77	4800									
04/07/77	1800									
04/14/77	5000									
04/21/77	2300									
04/28/77	3800									
05/05/77	4100									
05/12/77	4400									
05/19/77	4700									
05/26/77	5500									
06/02/77	5600									
06/09/77	4400									
06/16/77	5300									
06/23/77	6000									

SUMP 1
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
06/30/77	6500									
07/07/77	6500									
07/14/77	6600									
07/21/77	860									
07/28/77	3500									
08/04/77	5400									
08/11/77	2600									
08/18/77	3700									
08/25/77	4300									
09/01/77	2500									
09/08/77	4000									
09/15/77	4200									
09/22/77	4700									
09/29/77	5000									
02/27/78	5500									
05/04/78	40									
05/11/78	800									
05/18/78	1300									
05/25/78	210									
06/01/78	900									
06/08/78	330									
06/22/78	1500									
06/29/78	1600									
04/19/79	351									
04/26/79	306									
05/03/79	300									
05/10/79	300									
05/18/79	300									
05/21/79	90									
05/31/79	300									

SUMP 1
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
06/07/79	250									
06/14/79	400									
06/21/79	200									
12/06/79	130									
01/17/80	15									
01/24/80	<100									
01/31/80	<100									
02/07/80	<100									
02/14/80	165									
02/21/80	165									
02/28/80	<100									
03/06/80	194									
03/13/80	166									
03/20/80	<100									
03/27/80	122									
04/03/80	<100									
04/09/80	199									
04/17/80	154.1									
04/24/80	<100									
05/01/80	234.0									
05/08/80	200									
05/15/80	134									
05/22/80	278									
05/27/80	<100									
06/05/80	718									
06/12/80	1703									
06/19/80	3030									
06/26/80	3400									
07/03/80	3905									
07/10/80										

SUMP 1
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
07/17/80	2983									
07/24/80	4169									
07/31/80	3840									
08/07/80	4070									
08/14/80	3520									
08/21/80	4168									
08/28/80	4200									
09/04/80	4338									
09/11/80	1184									
09/18/80	845									
09/25/80	1617									
10/02/80	2091									
10/09/80	2689									
10/16/80	3522									
10/23/80	387									
10/30/80	3930									
11/06/80	3950									
11/13/80	3450									
11/20/80	4770									
12/04/80	5010									
12/11/80	5060									
12/18/80	2998									

SUMP 2

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
01/02/75	8900									
01/09/75	11300									
01/16/75	11300									
01/23/75	13200									
01/30/75	10700									
02/06/75	10800									
02/13/75	10600									
02/20/75	7100									
02/27/75	3300									
03/06/75	4600									
03/13/75	4600									
03/20/75	6100									
03/31/75	3900									
04/10/75	6000									
04/17/75	6300									
04/24/75	3300									
05/01/75	6500									
05/08/75	9900									
05/15/75	8600									
05/22/75	17000									
05/29/75	1400									
06/05/75	10400									
06/12/75	6300									
06/19/75	6700									
06/26/75	10000									
07/03/75	15400									
07/10/75	14800									
07/17/75	17600									
07/24/75	16600									
07/31/75	13000									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
08/07/75	21000									
08/14/75	13500									
08/21/75	17000									
08/28/75	20200									
09/04/75	18000									
09/11/75	3390									
09/18/75	3390									
09/25/75	3500									
10/02/75	3277									
10/09/75	3400									
10/16/75	6300									
10/23/75	3400									
10/30/75	2000									
11/06/75	2900									
11/13/75	2000									
11/21/75	4000									
12/04/75	2100									
12/11/75	2000									
12/18/75	2000									
12/26/75	1900									
01/08/76	2000									
01/15/76	2000									
01/22/76	2000									
01/29/76	1900									
02/05/76	1200									
02/12/76	1300									
02/19/76	2000									
02/26/76	450									
03/04/76	250									
03/11/76	600									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
03/18/76	600									
03/25/76	700									
04/01/76	430									
04/08/76	500									
04/15/76	970									
04/22/76	1200									
04/29/76	3200									
05/06/76	1800									
05/13/76	1700									
05/20/76	1300									
05/27/76	1500									
06/03/76	1900									
06/10/76	2100									
06/17/76	5700									
06/24/76	2100									
07/01/76	2500									
07/08/76	6600									
07/22/76	2700									
07/29/76	2900									
08/05/76	2300									
08/12/76	2900									
08/19/76	2900									
08/26/76	3200									
09/02/76	3200									
09/09/76	3100									
09/16/76	2900									
09/30/76	2500									
10/07/76	2700									
10/14/76	3000									
10/21/76	2900									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
10/28/76	1300									
11/04/76	2400									
11/11/76	2300									
11/18/76	2300									
11/24/76	120									
12/02/76	2600									
12/09/76	3000									
12/16/76	3000									
12/22/76	2700									
12/29/76	2700									
01/06/77	2500									
01/13/77	2500									
01/20/77	2400									
01/27/77	2500									
02/03/77	2300									
02/10/77	1700									
03/03/77	2200									
03/10/77	2500									
03/17/77	1800									
03/24/77	1900									
03/31/77	5500									
04/07/77	1400									
04/14/77	2000									
04/21/77	1500									
04/28/77	1900									
05/05/77	1200									
05/12/77	2100									
05/19/77	2000									
05/26/77	2300									
06/02/77	2300									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
06/09/77	2100									
06/16/77	2600									
06/23/77	2000									
06/30/77	2200									
07/07/77	3100									
07/14/77	3200									
07/21/77	830									
07/28/77	2500									
08/04/77	3200									
08/11/77	3300									
08/18/77	3500									
08/25/77	7200									
09/01/77	3100									
09/08/77	3400									
09/15/77	2900									
09/22/77	3000									
09/29/77	3300									
10/20/77	3600									
10/27/77	3600									
11/03/77	3600									
11/10/77	2800									
11/17/77	2800									
12/01/77	3000									
12/08/77	3200									
12/15/77	920									
12/22/77	650									
12/29/77	1300									
01/05/78	1300									
01/12/78	1400									
03/09/78	240									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
03/16/78	400									
03/23/78	420									
03/30/78	450									
04/06/78	440									
04/13/78	2200									
04/20/78	2200									
04/27/78	1400									
05/04/78	1300									
05/11/78	1100									
05/18/78	1100									
05/25/78	1600									
06/01/78	950									
06/08/78	1700									
06/15/78	2100									
06/22/78	2300									
06/29/78	2600									
07/06/78	2800									
07/13/78	3000									
07/20/78	3100									
07/27/78	3500									
08/03/78	1300									
08/10/78	3800									
08/17/78	2800									
08/24/78	4000									
08/31/78	4400									
09/07/78	4600									
09/14/78	4400									
09/21/78	4500									
09/28/78	4700									
10/05/78	4500									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
10/12/78	4600									
10/19/78	4500									
10/26/78	3300									
11/02/78	5100									
11/09/78	5200									
11/16/78	4600									
11/30/78	4400									
12/14/78	3300									
12/21/78	3800									
01/04/79	3400									
01/11/79	3300									
01/18/79	3500									
01/25/79	3000									
02/01/79	3300									
02/08/79	3100									
02/15/79	2700									
02/22/79	3900									
03/01/79	4800									
03/08/79	3400									
03/15/79	3100									
03/22/79	1800									
03/29/79	2200									
04/02/79	1700									
04/19/79	2600									
04/26/79	2800									
05/03/79	1100									
05/10/79	900									
05/18/79	3100									
05/21/79	3500									
05/31/79	2400									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
06/07/79	4000									
06/14/79	2300									
06/21/79	3700									
06/28/79	4500									
07/05/79	5000									
07/12/79	5300									
07/19/79	5600									
07/26/79	5900									
08/02/79	4100									
08/16/79	2700									
08/23/79	3900									
08/30/79	5000									
09/06/79	5900									
09/13/79	6200									
09/20/79	6200									
10/11/79	6700									
10/18/79	6700									
10/25/79	6400									
11/08/79	6500									
11/15/79	6500									
11/29/79	9900									
12/06/79	1900									
12/13/79	3800									
12/20/79	3800									
01/03/80	2600									
01/10/80	2700									
01/17/80	2782									
01/24/80	3500									
01/31/80	3200									
02/07/80	3400									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
02/14/80	2700									
02/21/80	2800									
02/28/80	2961									
03/06/80	3000									
03/13/80	2753									
03/20/80	2759									
03/27/80	2324									
04/03/80	2685									
04/09/80	1894									
04/17/80	1875.7									
04/24/80	418.2									
05/01/80	927.4									
05/08/80	1382									
05/15/80	1536									
05/22/80	1599									
05/27/80	1838									
06/05/80	1886									
06/12/80	2311									
06/19/80	3260									
06/26/80	3400									
07/03/80	3625									
07/10/80	3386									
07/17/80	3988									
07/24/80	3979									
07/31/80	4161									
08/07/80	3340									
08/14/80	3448									
08/21/80	3970									
08/28/80	4210									
09/04/80	3572									

SUMP 2
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
09/11/80	4887									
09/18/80	4570									
09/25/80	4275									
10/02/80	4482									
10/09/80	3515									
10/16/80	4446									
10/23/80	4560									
10/30/80	4600									
11/06/80	4550									
11/13/80	4649									
11/20/80	4780									
12/04/80	4825									
12/11/80	5220									
12/18/80	5191									

SUMP 3

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
01/02/75	7500									
01/09/75	10500									
01/16/75	24900									
01/23/75	2700									
01/30/75	5900									
02/06/75	14400									
02/13/75	16400									
02/20/75	3300									
02/27/75	8500									
03/06/75	13500									
03/13/75	13000									
03/20/75	11500									
03/31/75	9000									
04/10/75	16800									
04/17/75	7600									
04/24/75	7000									
05/01/75	8200									
05/08/75	17300									
05/15/75	20000									
05/22/75	14000									
05/29/75	1900									
06/05/75	14600									
06/12/75	6700									
06/19/75	11000									
06/26/75	17400									
07/03/75	18200									
07/10/75	24400									
07/17/75	21000									
07/24/75	23800									
07/31/75	24400									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
08/07/75	15800									
08/14/75	17000									
08/21/75	13800									
08/28/75	16600									
09/04/75	13400									
09/11/75	4068									
09/18/75	2260									
09/25/75	2600									
10/02/75	2486									
10/09/75	1500									
10/16/75	5700									
10/23/75	4100									
10/30/75	2700									
11/06/75	2100									
11/13/75	3400									
11/21/75	2700									
12/04/75	3200									
12/11/75	2200									
12/18/75	2700									
12/26/75	2200									
01/08/76	725									
01/15/76	2900									
01/22/76	2200									
01/29/76	2200									
02/05/76	1200									
02/12/76	1400									
02/19/76	1400									
02/26/76	1000									
03/04/76	2000									
03/11/76	1900									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
03/18/76	1800									
03/25/76	1600									
04/01/76	2100									
04/08/76	2200									
04/15/76	2200									
04/22/76	2100									
04/29/76	900									
05/06/76	2700									
05/13/76	2500									
05/20/76	2200									
05/27/76	2300									
06/03/76	2300									
06/10/76	2200									
06/17/76	2500									
06/24/76	2600									
07/01/76	2900									
07/08/76	3100									
07/22/76	2500									
07/29/76	2700									
08/05/76	2900									
08/12/76	2600									
08/19/76	4500									
08/26/76	1600									
09/02/76	3000									
09/09/76	4700									
09/16/76	4500									
09/30/76	3400									
10/07/76	2500									
10/14/76	3700									
10/21/76	2600									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY UMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
10/28/76	2800									
11/04/76	3200									
11/11/76	3400									
11/18/76	3500									
11/24/76	3100									
12/02/76	3000									
12/09/76	3100									
12/16/76	1200									
12/22/76	1500									
12/29/76	1600									
01/06/77	1400									
01/13/77	440									
01/20/77	2700									
01/27/77	1600									
02/03/77	1900									
02/10/77	1600									
03/03/77	2000									
03/10/77	2500									
03/17/77	2500									
03/24/77	2600									
03/31/77	2000									
03/31/77	600									
04/07/77	1200									
04/14/77	1400									
04/21/77	2300									
04/28/77	2400									
05/05/77	3200									
05/12/77	3100									
05/19/77	2900									
05/26/77	470									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
06/02/77	1300									
06/09/77	3100									
06/16/77	3100									
06/23/77	3400									
06/30/77	2600									
07/07/77	1600									
07/14/77	2400									
07/21/77	5200									
07/28/77	3700									
08/04/77	3000									
08/11/77	3000									
08/18/77	4400									
08/25/77	4300									
09/01/77	3900									
09/08/77	2700									
09/15/77	1300									
09/22/77	2400									
09/29/77	2400									
10/20/77	2600									
10/27/77	2400									
11/03/77	1200									
11/10/77	1300									
11/17/77	2100									
12/01/77	1000									
12/08/77	1200									
12/15/77	2600									
12/22/77	690									
12/29/77	1300									
01/05/78	800									
01/12/78	900									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
01/19/78	1400									
01/26/78	1400									
02/02/78	920									
02/09/78	1300									
02/16/78	1700									
02/23/78	1900									
03/02/78	2700									
03/09/78	2800									
03/16/78	1200									
03/23/78	520									
03/30/78	700									
04/06/78	1400									
04/13/78	1600									
04/20/78	980									
04/27/78	1000									
05/04/78	1200									
05/11/78	600									
05/18/78	1500									
05/25/78	2900									
06/01/78	930									
06/08/78	2500									
06/15/78	1500									
06/22/78	2300									
06/29/78	3500									
07/06/78	2900									
07/13/78	1200									
07/20/78	4000									
07/27/78	2400									
08/03/78	5600									
08/10/78	2300									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
08/17/78	3324									
08/24/78	4300									
08/31/78	2300									
09/07/78	1500									
09/14/78	4400									
09/21/78	3100									
09/28/78	1700									
10/05/78	1400									
10/12/78	2300									
10/19/78	3500									
10/26/78	2800									
11/02/78	3700									
11/09/78	590									
11/16/78	1600									
11/30/78	2500									
12/07/78	3700									
12/14/78	2700									
12/21/78	1100									
01/04/79	2300									
01/11/79	3900									
01/18/79	3600									
01/25/79	3000									
02/01/79	3500									
02/08/79	3400									
02/15/79	2000									
02/22/79	2700									
03/01/79	2700									
03/08/79	2200									
03/15/79	1600									
03/22/79	1400									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB FPM/PPB	PHENOL PPM/PPB
03/29/79	1900									
04/02/79	900									
04/19/79	1400									
04/26/79	2300									
05/03/79	700									
05/10/79	700									
05/18/79	1700									
05/21/79	1700									
05/31/79	800									
06/07/79	400									
06/14/79	1100									
06/21/79	2000									
06/28/79	2000									
07/05/79	1200									
07/12/79	1400									
07/19/79	1700									
07/26/79	1600									
08/02/79	1600									
08/09/79	700									
08/16/79	2600									
08/23/79	2100									
08/30/79	1200									
09/13/79	1800									
09/20/79	1400									
10/11/79	700									
10/18/79	1500									
10/25/79	1900									
11/08/79	2700									
11/15/79	2700									
12/06/79	1600									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
12/13/79	2300									
12/20/79	2300									
01/03/80	1800									
01/10/80	1800									
01/17/80	1740									
01/24/80	1800									
01/31/80	2000									
02/07/80	1700									
02/14/80	1600									
02/21/80	1600									
02/28/80	1610									
03/06/80	1800									
03/13/80	1242									
03/20/80	1768									
03/27/80	1819									
04/03/80	1497									
04/09/80	776									
04/17/80	1488.9									
04/24/80	253.5									
05/01/80	374.1									
05/08/80	559									
05/15/80	479									
05/22/80	610									
05/27/80	1225									
06/05/80	757									
06/12/80	1762									
06/19/80	1270									
06/26/80	1900									
07/03/80	1389									
07/10/80	1438									

SUMP 3
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
07/17/80	1877									
07/24/80	1083									
07/31/80	868									
08/07/80	1460									
08/14/80	2002									
08/21/80	943									
08/28/80	1300									
09/04/80	969									
09/11/80	1425									
09/18/80	524									
09/25/80	1090									
10/02/80	1179									
10/09/80	1231									
10/16/80	1564									
10/23/80	183									
10/30/80	1150									
11/06/80	1310									
11/13/80	1730									
11/20/80	1010									
12/04/80	1215									
12/11/80	1830									
12/18/80	664.5									

SUMP 6

SUMP 6
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
03/29/79	700									
04/02/79	200									
04/19/79	743									
04/26/79	759									
05/03/79	400									
05/10/79	400									
05/18/79	700									
05/21/79	700									
05/31/79	500									
06/07/79	800									
06/14/79	800									
06/21/79	800									
06/28/79	900									
07/05/79	1000									
07/12/79	1200									
07/19/79	1100									
07/26/79	1400									
08/02/79	400									
08/09/79	400									
08/16/79	800									
08/23/79	1000									
08/30/79	1200									
09/13/79	1200									
09/20/79	1200									
10/11/79	1100									
10/18/79	1100									
10/25/79	1000									
11/08/79	900									
11/15/79	900									
12/06/79	800									

SUMP 6
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
12/13/79	1200									
12/20/79	1200									
01/03/80	900									
01/10/80	1000									
01/17/80	841									
01/24/80	1022									
01/31/80	1000									
02/07/80	1000									
02/14/80	860									
02/21/80	820									
02/28/80	891									
03/06/80	961									
03/13/80	924									
03/20/80	1001									
03/27/80	929									
04/03/80	750									
04/09/80	779									
04/17/80	725.0									
04/24/80	149.3									
05/01/80	216.0									
05/08/80	281									
05/15/80	<100									
05/22/80	165									
05/27/80	740									
06/05/80	101									
06/12/80	656									
06/19/80	940									
06/26/80	1100									
07/03/80	1068									
07/10/80	1228									

SUMP 6
INORGANICS
HISTORICAL DATA

SAMPLE DATE	NITRATE AS N MG/L	PH	TOC MG/L	CONDUCTIVITY uMHOS/CM	NITRATE MG/L	COD MG/L	TS MG/L	TDS MG/L	PCB PPM/PPB	PHENOL PPM/PPB
07/17/80	1210									
07/24/80	1066									
07/31/80	1440									
08/07/80	417									
08/14/80	753									
08/21/80	1237									
08/28/80	898									
09/04/80	493									
09/11/80	1068									
09/18/80	730									
09/25/80	619									
10/02/80	518									
10/09/80	662.3									
10/16/80	623									
10/23/80	7460									
10/30/80	397									
11/06/80	1010									
11/13/80	666									
11/20/80	1440									
12/04/80	1385									
12/11/80	1260									
12/18/80	1601.7									

APPENDIX E

CHEMICAL ANALYSES FROM PREVIOUS INVESTIGATIONS

This appendix contains analytical data from previous investigations at the Solar Ponds Area. The enclosed data are presented in the following order:

Appendix E-1: Chemcial Analyses of Solar Ponds Water
- Pond 207A Data
- Pond 207B Data
- Pond 207C Data
- Pond 207A TCLP Sludge Data

Appendix E-2: Laboratory Test Results
- Solar Ponds 207-A AND 207-B
- North Interceptor Trench Pump
- House Buffer Zone April and May 1986

APPENDIX E-1

CHEMICAL ANALYSES OF SOLAR PONDS WATER

TABLE OF CONTENTS

Pond 207A	Quarterly Water Data Sludge Data	March 1984-September 1985 May 1985
Pond 207B	Weekly Water Data Elemental Water Analyses	January 1984-September 1985 October 1984, April 1985
Pond 207C	Quarterly Water Data	March 1984-September 1985
Pond 207A	Results of TCLP Sludge Analysis	April 1988

POND 207A DATA

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
NORTH AMERICAN SPACE OPERATIONS
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley, HS&E T452B
R. L. Henry, HS&E T452B
File

LAB NUMBER: M85-2224
DATE: 10-03-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

207 A and C Solar Pond - Quarterly - Received: 9-11-85

ANALYSIS RESULTS

Analysis	207 A	207 C
pH (S.U.)	10.0	12.5
NO^-_3 as N (mg/L)	21739	18841
T. D. S. (mg/L)	171976	171135
CN^- (ppm)	1.7	<0.1
Be (ug/ml)	0.1	0.6
Gross Alpha (pCi/L)	$(5.6 \pm 0.0) \times 10^4$	$(8.8 \pm 0.6) \times 10^3$
Gross Beta (pCi/L)	$(2.7 \pm 0.6) \times 10^4$	$(6.4 \pm 1.1) \times 10^3$
Pu-239 (pCi/L)	$(0.0 \pm 4.2) \times 10^2$	$(1.4 \pm 0.3) \times 10^3$
Am-241 (pCi/L)	$(0.0 \pm 1.0) \times 10^3$	$(1.3 \pm 0.1) \times 10^4$
U (pCi/L)	$(2.6 \pm 0.2) \times 10^4$	$(1.8 \pm 0.3) \times 10^3$
^3H (pCi/L)	$(3.0 \pm 0.8) \times 10^3$	$(7.2 \pm 0.9) \times 10^2$

1.6.

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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

✓C. T. Illsley, HS&E T-452B
File

LAB NUMBER: M85-1557
DATE: 7-11-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Pond 207A & 207C - Quarterly Received: 6-25-85

ANALYSIS RESULTS

Analysis	207A	207C
pH (S.U.)	10.1	10.7
NO_3^- as N (mg/L)	14800	8000
T.D.S. (mg/L)	10360	6420
Be (ug/ml)	0.1	<0.1
Gross Alpha (pCi/L)	2.4×10^4	6.5×10^3
Gross Beta (pCi/L)	$(5.2 \pm 1.0) \times 10^3$	$(1.1 \pm 0.2) \times 10^4$
CN^- (mg/L)	<0.01	<0.01

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GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. D. Gaskins, Liq Waste Oper, 374
T. Greengard, HS&E T452B

File

LAB NUMBER: M85-1236
DATE: 10-07-85
ACCOUNT NO: 371

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

207A Solar Pond Water Sludge
(REF: Req No. 2-59838) Received: 5-21-85

ANALYSIS RESULTS

Analysis	Result
pH (S.U.)	9.5
NO^-_3 as N (mg/L)	8800
Total Dissolved Solids (mg/L)	77300
Total Solids (mg/L)	108700
Specific Gravity (g/ml)	1.08
Be (mg/L)	170
Cr^{+6} (mg/L)	<1.0
Total Alpha	8.6×10^5
U-235 (pCi/L)	$(2.8 \pm 1.9) \times 10^1$
U-238 (pCi/L)	$(5.2 \pm 0.9) \times 10^2$
F^- (g/L)	<0.75
Cl^- (g/L)	2.0
PO_4^{-3} (g/L)	<1.0
NO_3^- (g/L)	36
SO_4^{-2} (g/L)	2.2

See attached sheet for elemental analysis results.

LAB NO: M85-1236
DATE: JULY 12, 1985

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ENERGY SYSTEMS GROUP
ROCKY FLATS PLANT
881 GENERAL LABORATORY

ANALYSIS REPORT

TO: R.D.GASKINS JR.
CC: FILE

BLDG: 374
DEPT: LIQ. WASTE OPER.

CHARGE: 371

SAMPLE DESCRIPTION:

WATER SLUDGE

EMISSION SPECTROGRAPHIC RESULTS

ELEMENT	Mg/L	ELEMENT	Mg/L
Ag	4.3	Mo	.87
Al	>1100	Na	>11000
As	<5.4	Nb	11
B	11	Ni	22
Ba	3.3	P	760
Be	9.8	Pb	7.6
Bi	<.54	Rb	11
Ca	>1100	Sb	<1.1
Cd	33	Se	** 0
Ce	<110	Si	220
Co	.98	Sn	<1.1
Cr	65	Sr	54
Cs	<11	Ta	<1.1
Cu	43	Te	<11
Fe	110	Th	<1.1
Ge	<.54	Ti	9.8
Hg	<1.1	Tl	<.54
K	>11000	U	<54
Li	98	V	<1.1
Mg	1100	W	<54
Mn	6.5	Zn	7.6
		Zr	2.2

* ATOMIC ABSORPTION SPECTROPHOTOMETRIC RESULTS.
** NOT RUN

TOTAL SOLIDS: 108700

ANALYSIS BY: R2D

PLATE NO: 3020

APPROVED BY R. A. Silva

ANALYTICAL REPORT

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P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley, HS&E T452B
R. L. Henry, HS&E T452B
File

LAB NUMBER: M85-0499
DATE: 4-25-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

207-A Solar Pond - Quarterly - Received: 3-5-85

ANALYSIS RESULTS

Analysis	Results
pH (S.U.)	10.0
NO^-_3 as N (mg/L)	7300
T. D. S. (mg/L)	5340
CN^- (ppm)	<0.1
Be (ug/ml)	0.1
Gross Alpha (pCi/L)	$(8.4 \pm 0.3) \times 10^3$
Gross Beta (pCi/L)	$(1.2 \pm 0.1) \times 10^4$
Pu-239 (pCi/L)	$(1.3 \pm 0.6) \times 10^2$
Am-241 (pCi/L)	$(0.0 \pm 1.5) \times 10^2$
U (pCi/L)	$(9.2 \pm 1.1) \times 10^3$
^3H (pCi/L)	$(1.0 \pm 0.4) \times 10^3$

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INFO

ANALYTICAL REPORT

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GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley, HS&E T452B
R. L. Henry, HS&E T452B
File

LAB NUMBER: M84-2975
DATE: 12-24-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Pond 207A - Received: 12-5-84

ANALYSIS RESULTS

ANALYSIS	RESULTS	
pH (S.U.)	8.3	
NO_3 as N (mg/L)	5.0	
T.D.S. (mg/L)	929	
Be (mg/L)	<0.1	
CN^- (mg/L)	<0.05	
Gross Alpha (pCi/L)	204 ± 120	204
Gross Beta (pCi/L)	21 ± 26	
Pu (pCi/L)	$(1.6 \pm 0.7) \times 10^2$	160
U (pCi/L)	$(8.6 \pm 7.0) \times 10^1$	86
Am (pCi/L)	$(0.0 \pm 7.6) \times 10^1$	
H^3 (pCi/L)	$(6.2 \pm 2.3) \times 10^2$	620

ANALYTICAL REPORT

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DISTRIBUTION:

C. T. Illsley, T452B HS&E
File

LAB NUMBER: M84-2275
DATE: 9-27-84
ACCOUNT NO: 331

APPROVED: D. A. Blair

SAMPLE DESCRIPTION

Solar Pond 207A - Quartley Sample - Received: 9-13-84

ANALYSIS RESULTS

Analysis	Results
pH	11.0
NO_3 as N (mg/L)	<1.0
TDS (mg/L)	403
Be (ug/L)	<0.1
CN^- (mg/L)	<0.1
Tritium (pCi/L)	$(2.8 \pm 1.0) \times 10^3$
Gross Alpha (pCi/L)	32 ± 16
Gross Beta (pCi/L)	39 ± 40
Pu (pCi/L)	$(2.4 \pm 1.0) \times 10^2$
Am (pCi/L)	$(2.0 \pm 1.2) \times 10^2$
U (pCi/L)	$(6.9 \pm 7.9) \times 10^{-1}$

ANALYTICAL REPORT

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BUILDING 881

DISTRIBUTION:

C. T. Illsley T-452B
R. L. Henry T-452B
N. D. Hoffman T-452B
R. D. Gaskins 374
File

LAB NUMBER: M84-1416
DATE: 8/16/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

207A Solar POnd - Quarterly Sample Received: 6/5/84

Analysis	Result
pH (S.U.)	9.9
NO_3 as N (mg/L)	5150
Total Dissolved Solids (mg/L)	4383
Be (mg/L)	< 0.1
CN^- (mg/L)	0.6
Gross Alpha (pCi/L)	$(3.5 \pm 2.9) \times 10^3$
Gross Beta (pCi/L)	2 ± 27
Pu - 239 (pCi/L)	$(1.1 \pm 2.4) \times 10^1$
Am - 241 (pCi/L)	$(3.8 \pm 2.8) \times 10^1$
U (pCi/L)	$(6.5 \pm 0.4) \times 10^3$
^3H (pCi/L)	$(4.3 \pm 0.8) \times 10^3$

NDH

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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:
R. L. Henry T452B
✓C. T. Illsley T452B
File

LAB NUMBER: M84-558
DATE: 4-10-84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207A - Monthly Sample
Received 3-5-84

ANALYSIS RESULTS

Analysis	Result
Gross Alpha (pCi/L)	$(1.9 \pm 1.1) \times 10^3$
Gross Beta (pCi/L)	$(2.2 \pm 0.6) \times 10^2$
Plutonium (pCi/L)	1.2×10^1
Americium (pCi/L)	6.5×10^2
Uranium (pCi/L)	4.0×10^3
Beryllium (mg/L)	<0.1
pH	10.5
NO_3 as N (mg/L)	5000
TDS (mg/L)	36000
CN^- (ppm)	<0.1
Tritium (pCi/L)	1.3×10^3

POND 207B DATA

ANALYTICAL REPORT

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BUILDING 881

DISTRIBUTION:

R. L. Henry, T452B HS&E
C. T. Illsley, T452B HS&E
R. D. Gaskins, 374 Liq Wste Ops
T. Greengard, T452B HS&E
File

LAB NUMBER: M85-2220
DATE: 10-08-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 9-17-85

Analysis	North	Center
pH (S.U.)	9.3	9.3
NO^-_3 as N (mg/L)	727	1.4
Gross Alpha (pCi/L)	209 ± 21	7 ± 3
Gross Beta (pCi/L)	109 ± 63	59 ± 4

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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry, T452B HS&E
C. T. Illsley, T452B HS&E
R. D. Gaskins, 374 Liq Wste Ops
T. Greengard, T452B HS&E
File

LAB NUMBER: M85-2157
DATE: 9-30-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 9-10-85

Analysis	North	Center
pH (S.U.)	9.2	9.7
NO^-_3 as N (mg/L)	746	<1.0
Gross Alpha (pCi/L)	268 ± 89	24 ± 5
Gross Beta (pCi/L)	23 ± 16	-4 ± 25

ANALYTICAL REPORT

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GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry, T452B HS&E
C. T. Illsley, T452B HS&E
R. D. Gaskins, 374 Liq Wste Ops
✓T. Greengard, T452B HS&E
File

LAB NUMBER: M85-2096
DATE: 9-30-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 8-27-85

Analysis	North	Center
pH (S.U.)	9.0	10.3
NO^-_3 as N (mg/L)	716	<1.0
Gross Alpha (pCi/L)	323 ± 33	-4 ± 0
Gross Beta (pCi/L)	96 ± 25	-8 ± 11
Pu-239 (pCi/L)	71.2	*
U- Total (pCi/L)	82.6	•
Am-241 (pCi/L)	57.6	•

• Not requested

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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry, T452B HS&E
C. T. Illsley, T452B HS&E
R. D. Gaskins, 374 Liq Wste Ops
T. Greengard, T452B HS&E
File

LAB NUMBER: M85-2035
DATE: 9-30-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 8-20-85

Analysis	North	Center
pH (S.U.)	8.7	10.6
NO^-_3 as N (mg/L)	676	<1.0
Gross Alpha (pCi/L)	113 ± 38	19 ± 5
Gross Beta (pCi/L)	41 ± 10	6 ± 16

ANALYTICAL REPORT

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GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry, T452B HS&E
C. T. Illsley, T452B HS&E
R. D. Gaskins, 374 Liq Wste Ops
T. Greengard, T452B HS&E
File

LAB NUMBER: M85-1973
DATE: 9-30-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 8-13-85

Analysis	North	Center
pH (S.U.)	8.8	9.6
NO^-_3 as N (mg/L)	615	<1.0
Gross Alpha (pCi/L)	110 ± 6	0 ± 0
Gross Beta (pCi/L)	77 ± 5	9 ± 4

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T. Greengard, T452B HS&E
File

LAB NUMBER: M85-1915
DATE: 9-30-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 8-6-85

Analysis	North	Center
pH (S.U.)	9.1	10.0
NO^-_3 as N (mg/L)	590	<1.0
Gross Alpha (pCi/L)	166 ± 31	6 ± 2
Gross Beta (pCi/L)	115 ± 7	29 ± 8

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File

LAB NUMBER: M85-1860
DATE: 8-9-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 7-30-85

Analysis	North	Center
pH (S.U.)	9.1	9.9
NO^-_3 as N (mg/L)	627	2.0
Gross Alpha (pCi/L)	200 ± 86	38 ± 20
Gross Beta (pCi/L)	57 ± 12	34 ± 39

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File

LAB NUMBER: M85-1787
DATE: 7-29-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 7-23-85

Analysis	North	Center
pH (S.U.)	8.9	10.3
NO_3^- as N (mg/L)	625	<1.0
Gross Alpha (pCi/L)	169 ± 14	18 ± 11
Gross Beta (pCi/L)	52 ± 15	11 ± 0

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LAB NUMBER: M85-0501
DATE: 3-26-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 3-5-85

Analysis	North	Center
pH (S.U.)	*	10.1
NO_3 as N (mg/L)	*	15.6
Gross Alpha (pCi/L)	*	59 ± 23
Gross Beta (pCi/L)	*	73 ± 0

* No sample received - Pond Frozen

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File

LAB NUMBER: M84-2855
DATE: 12-12-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 11-20-84

Analysis	North	Center
pH (S.U.)	8.0	10.6
NO_3 as N (mg/L)	579	5.5
Gross Alpha (pCi/L)	217 ± 80	34 ± 19
Gross Beta (pCi/L)	11 ± 24	17 ± 26

ANALYTICAL REPORT

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File

LAB NUMBER: M85-0712
DATE: 4-15-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 3-26-85

Analysis	North	Center
pH (S.U.)	9.2	10.1
NO_3 as N (mg/L)	492	5.1
Gross Alpha (pCi/L)	186 ± 105	26 ± 7
Gross Beta (pCi/L)	156 ± 54	17 ± 2

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File

LAB NUMBER: M85-0433
DATE: 3-26-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 2-26-85

Analysis	North	Center
pH (S.U.)	•	10.4
NO_3 as N (mg/L)	•	3.4
Gross Alpha (pCi/L)	•	-2 ± 10
Gross Beta (pCi/L)	•	38 ± 19

• No sample received - Pond Frozen.

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T. Greengard, T452B HS&E
File

LAB NUMBER: M84-3027
DATE: 12-24-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 12-11-84

Analysis	North	Center
pH (S.U.)	*	9.2
NO_3 as N (mg/L)	FROZEN	4.1
Gross Alpha (pCi/L)	NO	4 ± 11
Gross Beta (pCi/L)	SAMPLE	3 ± 21

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File

LAB NUMBER: M84-2952
DATE: 12-12-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 12-4-84

Analysis	North	Center
pH (S.U.)	•	10.0
NO_3 as N (mg/L)	*	4.0
Gross Alpha (pCi/L)	*	6 ± 17
Gross Beta (pCi/L)	*	3 ± 26

• Pond frozen

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T. Greengard, T452B HS&E
File

LAB NUMBER: M84-2888
DATE: 12-12-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 11-27-84

Analysis	North	Center
pH (S.U.)	8.1	10.7
NO_3 as N (mg/L)	579	2.9
Gross Alpha (pCi/L)	160 ± 63	1 ± 11
Gross Beta (pCi/L)	29 ± 29	5 ± 24

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File

LAB NUMBER: M84-2787
DATE: 11-29-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 11-13-84

Analysis	North	Center
pH (S.U.)	8.3	10.8
NO_3 as N (mg/L)	500	<1.0
Gross Alpha (pCi/L)	203 ± 94	20 ± 14
Gross Beta (pCi/L)	46 ± 43	-2 ± 28

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File

LAB NUMBER: M84-2724
DATE: 11-29-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 11-6-84

Analysis	North	Center
pH (S.U.)	8.3	10.7
NO_3 as N (mg/L)	570	2.7
Gross Alpha (pCi/L)	143 ± 55	11 ± 16
Gross Beta (pCi/L)	19 ± 37	-5 ± 23

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File

LAB NUMBER: M84-2664
DATE: 11-7-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 10-30-84

Analysis	North	Center
pH (S.U.)	8.2	10.5
NO_3 as N (mg/L)	535	2.2
Gross Alpha (pCi/L)	165 ± 62	5 ± 10
Gross Beta (pCi/L)	53 ± 44	-5 ± 22

ANALYTICAL REPORT

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File

LAB NUMBER: M84-2604
DATE: 11-7-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 10-23-84

Analysis	North	Center
pH (S.U.)	8.2	10.6
NO_3 as N (mg/L)	530	<1.0
Gross Alpha (pCi/L)	116 ± 42	11 ± 12
Gross Beta (pCi/L)	48 ± 47	3 ± 26

ANALYTICAL REPORT

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R. D. Gaskins, Liq Wste 374
T. Greengard, HS&E T452B
File

LAB NUMBER: M84-2608
DATE: 11-28-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B 1) North 2) Center
Received: 10/23/84

ANALYSIS RESULTS

Elemental analysis results are reported on attached sheets.

LAB NO: M84-2608
DATE: NOVEMBER 21,1984

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ANALYSIS REPORT

TO: R.L.HENRY
CC: FILE

BLDG: T452B
DEPT: ENV.ANALYSIS

CHARGE: 331

SAMPLE DESCRIPTION:

SOLAR POND B (CENTER)

EMISSION SPECTROGRAPHIC RESULTS

ELEMENT		Mg/L	ELEMENT		Mg/L
Ag		.0016	Mo		.016
Al		2	Na	•	67.0
As	•	<.01	Nb		<.02
B		.24	Ni		.016
Ba	•	<1.0	P		.2
Be	•	<.05	Pb		.002
Bi		<.002	Rb		.041
Ca	•	2.9	Sb		<.0041
Cd	*	<.01	Se	•	<.01
Ce		<.41	Si	•	2.4
Co		<.002	Sn		<.0041
Cr	•	<.05	Sr		.28
Cs		.041	Ta		<.0041
Cu		.016	Te		<.041
Fe		.2	Th		<.0041
Ge		<.002	Ti		.041
Hg	•	<.002	Tl		<.002
K	*	30.0	U		<.2
Li		.41	V		.0081
Mg	*	3.9	W		<.2
Mn		.081	Zn		.041
			Zr		.0041

• ATOMIC ABSORPTION SPECTROPHOTOMETRIC RESULTS.
** NOT RUN

TOTAL SOLIDS: 406

ANALYSIS BY: R2D,DLP

PLATE NO: 2884

APPROVED BY R. A. Silva

LAB NO: M84-2608
DATE: NOVEMBER 21,1984

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ANALYSIS REPORT

TO: R.L.HENRY
CC: FILE

BLDG: T452B
DEPT: ENV.ANALYSIS

CHARGE: 331

SAMPLE DESCRIPTION:

SOLAR POND B (NORTH)

EMISSION SPECTROGRAPHIC RESULTS

ELEMENT		Mg/L	ELEMENT		Mg/L
Ag		<.0035	Mo		.0069
Al		1	Na	*	370.0
As	•	<.01	Nb		<.17
B		.31	Ni		<.035
Ba	*	<1.0	P		<.17
Be	•	<.05	Pb		.0035
Bi		<.017	Rb		<.35
Ca	*	20.0	Sb		<.035
Cd	*	<.01	Se	•	.01
Ce		<3.5	Si	•	5.6
Co		<.017	Sn		<.035
Cr	•	<.05	Sr		3.5
Cs		<.35	Ta		<.035
Cu		<.017	Te		<.35
Fe		.28	Th		<.035
Ge		<.017	Ti		.069
Hg	•	<.002	Tl		<.017
K	*	82.0	U		<1.7
Li		3.5	V		<.035
Mg	•	87.0	W		<1.7
Mn		<.035	Zn		<.17
			Zr		<.035

• ATOMIC ABSORPTION SPECTROPHOTOMETRIC RESULTS.
** NOT RUN

TOTAL SOLIDS: 3459

ANALYSIS BY: R2D,DLP

PLATE NO: 2884

APPROVED BY R. A. Schu

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File

LAB NUMBER: M84-2479
DATE: 10/22/84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 10/9/84

Analysis	North	Center
pH (S.U.)	8.3	10.9
NO_3 as N (mg/L)	570	< 1.0
Gross Alpha (pCi/L)	124 ± 54	8 ± 9
Gross Beta (pCi/L)	39 ± 39	-3 ± 24

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File

LAB NUMBER: M84-2425
DATE: 10/22/84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 10/2/84

Analysis	North	Center
pH (S.U.)	8.3	10.9
NO_3 as N (mg/L)	720	< 1.0
Gross Alpha (pCi/L)	97 ± 38	4 ± 15
Gross Beta (pCi/L)	44 ± 38	2 ± 26

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File

LAB NUMBER: M84-2377
DATE: 10-05-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 9-25-84

Analysis	North	Center
pH (S.U.)	8.4	11.1
NO_3 as N (mg/L)	335	<1.0
Gross Alpha (pCi/L)	98 ± 45	8 ± 14
Gross Beta (pCi/L)	38 ± 45	8 ± 29

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File

LAB NUMBER: M84-2312
DATE: 10-05-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 9-18-84

Analysis	North	Center
pH (S.U.)	8.4	11.1
NO_3 as N (mg/L)	560	2.6
Gross Alpha (pCi/L)	126 ± 56	15 ± 16
Gross Beta (pCi/L)	39 ± 50	-8 ± 27

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File

LAB NUMBER: M84-2247
DATE: 9-27-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 9-11-84

Analysis	North	Center
pH (S.U.)	8.7	11.1
NO_3 as N (mg/L)	852	<1.0
Gross Alpha (pCi/L)	157 ± 63	3 ± 13
Gross Beta (pCi/L)	30 ± 44	17 ± 30

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T. Greengard T452B
File

LAB NUMBER: M84-2173
DATE: 9-13-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 9/4/84

Analysis	North	Center
pH (S.U.)	8.9	10.7
NO_3 as N (mg/L)	340	<1.0
Gross Alpha (pCi/L)	15 ± 79	30 ± 22
Gross Beta (pCi/L)	60 ± 45	13 ± 26

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T. Greengard T452B
File

LAB NUMBER: M84-2124
DATE: 9-13-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 8/28/84

Analysis	North	Center
pH (S.U.)	9.0	10.6
NO_3 as N (mg/L)	590	<1.0
Gross Alpha (pCi/L)	13 ± 50	4 ± 8
Gross Beta (pCi/L)	24 ± 43	8 ± 31

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T. Greengard T452B
File

LAB NUMBER: M84-2043
DATE: 8/28/84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 8/21/84

Analysis	North	Center
pH (S.U.)	9.0	10.2
NO_3 as N (mg/L)	682	1.2
Gross Alpha (pCi/L)	87 ± 42	24 ± 20
Gross Beta (pCi/L)	61 ± 52	24 ± 33

ANALYTICAL REPORT

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R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1992
DATE: 8/20/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 8/14/84

Analysis	North	Center
pH (S.U.)	9.3	10.2
NO_3 as N (mg/L)	676	< 1.0
Gross Alpha (pCi/L)	141 ± 66	18 ± 25
Gross Beta (pCi/L)	16 ± 32	-2 ± 26

ANALYTICAL REPORT

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R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1938
DATE: 8/20/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 8/7/84

Analysis	North	Center
pH (S.U.)	8.4	7.4
NO_3 as N (mg/L)	647	< 1.0
Gross Alpha (pCi/L)	95 ± 46	1 ± 16
Gross Beta (pCi/L)	15 ± 38	20 ± 29

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DISTRIBUTION:

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R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1815
DATE: 7/30/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 7/24/84

Analysis	North	Center
pH (S.U.)	9.0	10.9
NO_3 as N (mg/L)	743	<1.0
Gross Alpha (pCi/L)	80 ± 32	15 ± 19
Gross Beta (pCi/L)	20 ± 40	17 ± 30

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File

LAB NUMBER: M84-1751
DATE: 7/24/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 7/17/84

Analysis	North	Center
pH (S.U.)	8.5	10.4
NO_3 as N (mg/L)	575	< 1.0
Gross Alpha (pCi/L)	143 ± 58	7 ± 19
Gross Beta (pCi/L)	61 ± 66	25 ± 32

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N. D. Hoffman T452B
File

LAB NUMBER: M84-1650
DATE: 7/24/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 7/3/84

Analysis	North	Center
pH (S.U.)	9.2	10.9
NO_3 as N (mg/L)	633	3.7
Gross Alpha (pCi/L)	153 ± 70	6 ± 23
Gross Beta (pCi/L)	62 ± 55	20 ± 35

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File

LAB NUMBER: M84-1593
DATE: 7/6/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 6/26/84

Analysis	North	Center
pH (S.U.)	9.6	8.9
NO_3 as N (mg/L)	675	1.9
Gross Alpha (pCi/L)	124 ± 67	43 ± 25
Gross Beta (pCi/L)	67 ± 49	-6 ± 27

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File

LAB NUMBER: M84-1523
DATE: 7/6/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 6/19/84

Analysis	North	Center
pH (S.U.)	9.3	8.2
NO_3 as N (mg/L)	674	1.9
Gross Alpha (pCi/L)	250 ± 132	7 ± 20
Gross Beta (pCi/L)	55 ± 51	11 ± 33

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File

LAB NUMBER: M85-1662
DATE: 7-19-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 7-9-85

Analysis	North	Center
pH (S.U.)	8.4	10.4
NO^-_3 as N (mg/L)	662	<1.0
Gross Alpha (pCi/L)	112 ± 16	6 ± 9
Gross Beta (pCi/L)	52 ± 42	-3 ± 21

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File

LAB NUMBER: M85-1615
DATE: 7-23-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 7-2-85

Analysis	North	Center
pH (S.U.)	8.7	11.0
NO^-_3 as N (mg/L)	634	<1.0
Gross Alpha (pCi/L)	118 ± 10	19 ± 10
Gross Beta (pCi/L)	88 ± 20	26 ± 36

ANALYTICAL REPORT

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File

LAB NUMBER: M85-1555
DATE: 7-11-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 6-25-85

Analysis	North	Center
pH (S.U.)	8.6	10.7
NO_3^- as N (mg/L)	815	<1.0
Gross Alpha (pCi/L)	70 ± 0	7 ± 9
Gross Beta (pCi/L)	95 ± 13	5 ± 0

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File

LAB NUMBER: M85-1499
DATE: 6-26-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 6-18-85

Analysis	North	Center
pH (S.U.)	9.1	10.2
NO^-_3 as N (mg/L)	658	<1.0
Gross Alpha (pCi/L)	231 ± 19	18 ± 0
Gross Beta (pCi/L)	44 ± 17	33 ± 15

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LAB NUMBER: M85-1433
DATE: 6-20-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 6-11-85

Analysis	North	Center
pH (S.U.)	7.5	9.2
NO_3^- as N (mg/L)	732	<1.0
Gross Alpha (pCi/L)	175 ± 16	27 ± 7
Gross Beta (pCi/L)	39 ± 0	45 ± 55

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File

LAB NUMBER: M85-1360
DATE: 6-20-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 6-4-85

Analysis	North	Center
pH (S.U.)	9.1	9.4
NO_3^- as N (mg/L)	616	<1.0
Gross Alpha (pCi/L)	88 ± 27	8 ± 9
Gross Beta (pCi/L)	50 ± 24	49 ± 9

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T. Greengard, T452B HS&E
File

LAB NUMBER: M85-1292
DATE: 6-7-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)
1) North 1) Center
Received: 5-28-85

Analysis	North	Center
pH (S.U.)	9.3	10.6
NO^-_3 as N (mg/L)	660	<1.0
Gross Alpha (pCi/L)	29 ± 14	19 ± 18
Gross Beta (pCi/L)	118 ± 34	20 ± 44

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File

LAB NUMBER: M85-1233
DATE: 6-7-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5-21-85

Analysis	North	Center
pH (S.U.)	9.4	10.9
NO^-_3 as N (mg/L)	632	<1.0
Gross Alpha (pCi/L)	165 ± 9	32 ± 14
Gross Beta (pCi/l)	80 ± 0	12 ± 8

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T. Greengard, T452B HS&E
File

LAB NUMBER: M85-1160
DATE: 5-22-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5-14-85

Analysis	North	Center
pH (S.U.)	8.6	11.0
NO^-_3 as N (mg/L)	662	<1.0
Gross Alpha (pCi/L)	161 ± 15	41 ± 2
Gross Beta (pCi/L)	43 ± 24	-9 ± 4

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T. Greengard, T452B HS&E
File

LAB NUMBER: M85-1082
DATE: 5-17-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5-7-85

Analysis	North	Center
pH (S.U.)	9.2	11.0
NO^-_3 as N (mg/L)	557	<1.0
Gross Alpha (pCi/L)	195 ± 19	7 ± 14
Gross Beta (pCi/L)	37 ± 7	9 ± 3

ANALYTICAL REPORT

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File

LAB NUMBER: M85-1003
DATE: 5-16-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 4-30-85

Analysis	North	Center
pH (S.U.)	9.0	10.7
NO^-_3 as N (mg/L)	656	1.8
Gross Alpha (pCi/L)	129 ± 10	29 ± 22
Gross Beta (pCi/L)	30 ± 28	-5 ± 3

ANALYTICAL REPORT

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File

LAB NUMBER: M85-0947
DATE: 5-3-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 4-23-85

Analysis	North	Center
pH (S.U.)	9.2	10.8
NO_3 as N (mg/L)	651	2.4
Gross Alpha (pCi/L)	149 ± 23	27 ± 4
Gross Beta (pCi/L)	47 ± 33	31 ± 0

ANALYTICAL REPORT

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R. D. Gaskins, Liq Waste Ops 374
T. Greengard, HS&E T452B
File

LAB NUMBER: M85-0949
DATE: 5-24-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Quarterly Sample) 1) North 1) Center
Received: 4-23-85

Elemental analysis results are reported on attached sheets.

2

LAB NO: M85-0949
DATE: MAY 23, 1985

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ROCKY FLATS PLANT
881 GENERAL LABORATORY

ANALYSIS REPORT

TO: C.T.ILLSLEY
CC: FILE

BLDG: T 452B
DEPT: ENV. ANALYSIS

CHARGE: 331

SAMPLE DESCRIPTION:

SOLAR POND (NORTH)

EMISSION SPECTROGRAPHIC RESULTS

ELEMENT		Mg/L	ELEMENT		Mg/L
Ag		.082	Mo		<.0041
Al		.16	Na	*	620.0
As	*	<.01	Nb		<.2
B		.29	Ni		<.041
Ba	*	<1.0	P		<.2
Be	*	<.05	Pb		<.0041
Bi		<.02	Rb		<.41
Ca	*	290	Sb		<.041
Cd	*	<.01	Se	*	.02
Ce		<4.1	Si	*	2.1
Co		<.02	Sn		<.041
Cr	*	<.05	Sr		1.2
Cs		<.41	Ta		<.041
Cu		<.02	Te		<.41
Fe		.29	Th		<.041
Ge		<.02	Ti		<.02
Hg	*	<.002	Tl		<.02
K	*	120.0	U		<2
Li		.37	V		<.041
Mg	*	120.0	W		<2
Mn		<.0041	Zn		<.2
			Zr		<.041

* ATOMIC ABSORPTION SPECTROPHOTOMETRIC RESULTS.
** NOT RUN

TOTAL SOLIDS: 4084

ANALYSIS BY: R2D,DLP

PLATE NO: 2994

APPROVED BY R. A. Silva

LAB NO: M85-0949
DATE: MAY 23, 1985

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ANALYSIS REPORT

TO: C.T.ILLSLEY
CC: FILE

BLDG: T 452B
DEPT: ENV. ANALYSIS

CHARGE: 331

SAMPLE DESCRIPTION:

SOLAR POND (CENTER)

EMISSION SPECTROGRAPHIC RESULTS

ELEMENT		Mg/L	ELEMENT		Mg/L
Ag		.015	Mo		.037
Al		.15	Na	*	250.0
As	*	<.01	Nb		<.037
B		.67	Ni		.015
Ba	*	<1.0	P		.074
Be	*	<.05	Pb		<.0007
Bi		<.0037	Rb		<.074
Ca	*	45.0	Sb		<.0074
Cd	*	<.01	Se	*	<.01
Ce		<.74	Si	*	5.5
Co		<.0037	Sn		<.0074
Cr	*	<.05	Sr		.52
Cs		<.074	Ta		<.0074
Cu		.037	Te		<.074
Fe		.074	Th		<.0074
Ge		<.0037	Ti		.022
Hg	*	<.002	Tl		<.0037
K	*	36.0	U		<.37
Li		.052	V		<.0074
Mg	*	13.0	W		<.37
Mn		.022	Zn		<.037
			Zr		<.0074

* ATOMIC ABSORPTION SPECTROPHOTOMETRIC RESULTS.
** NOT RUN

TOTAL SOLIDS: 744

ANALYSIS BY: R2D,DLP

PLATE NO: 2994

APPROVED BY R. A. Silva

ANALYTICAL REPORT

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File

LAB NUMBER: M85-0892
DATE: 4-25-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 4-16-85

Analysis	North	Center
pH (S.U.)	9.3	10.1
NO_3 as N (mg/L)	615	3.2
Gross Alpha (pCi/L)	154 ± 4	14 ± 2
Gross Beta (pCi/L)	20 ± 6	7 ± 14

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File

LAB NUMBER: M85-0824
DATE: 4-19-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 4-9-85

Analysis	North	Center
pH (S.U.)	9.2	8.9
NO_3 as N (mg/L)	630	4.3
Gross Alpha (pCi/L)	108 ± 3	14 ± 4
Gross Beta (pCi/L)	64 ± 13	10 ± 10

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File

LAB NUMBER: M85-0766
DATE: 4-15-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample) 1) North 1) Center
Received: 4-2-85

Analysis	North	Center
pH (S.U.)	9.1	8.5
NO_3 as N (mg/L)	540	5.3
Gross Alpha (pCi/L)	33 ± 0	18 ± 2
Gross Beta (pCi/L)	86 ± 0	20 ± 28

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File

LAB NUMBER: M85-0642
DATE: 3-28-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 3-14-85

Analysis	North	Center
pH (S.U.)	9.0	10.8
NO_3 as N (mg/L)	585	2.9
Gross Alpha (pCi/L)	230 ± 56	16 ± 3
Gross Beta (pCi/L)	163 ± 25	25 ± 22

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File

LAB NUMBER: M85-0573
DATE: 3-26-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 3-12-85

Analysis	North	Center
pH (S.U.)	8.8	10.7
NO_3 as N (mg/L)	390	2.2
Gross Alpha (pCi/L)	$(1.3 \pm 0.4) \times 10^2$	19 ± 13
Gross Beta (pCi/L)	$(1.6 \pm 0.1) \times 10^2$	31 ± 16

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File

LAB NUMBER: M84-1467
DATE: 7/24/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 6/12/84

Analysis	North	Center
pH (S.U.)	8.9	7.7
NO_3 as N (mg/L)	667	1.0
Gross Alpha (pCi/L)	84 ± 49	10 ± 16
Gross Beta (pCi/L)	35 ± 39	23 ± 30

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✓T. Greengard, T452B HS&E
File

LAB NUMBER: M85-0573
DATE: 3-26-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 3-12-85

Analysis	North	Center
pH (S.U.)	8.8	10.7
NO_3 as N (mg/L)	390	2.2
Gross Alpha (pCi/L)	$(1.3 \pm 0.4) \times 10^2$	19 ± 13
Gross Beta (pCi/L)	$(1.6 \pm 0.1) \times 10^2$	31 ± 16

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry, T452B HS&E
C. T. Illsley, T452B HS&E
R. D. Gaskins, 374 Liq Wste Ops
T. Greengard, T452B HS&E
File

LAB NUMBER: M84-2541
DATE: 10/22/84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 10/17/84

Analysis	North	Center
pH (S.U.)	7.8	10.5
NO_3 as N (mg/L)	600	1.6
Gross Alpha (pCi/L)	123 ± 50	2 ± 11
Gross Beta (pCi/L)	39 ± 35	3 ± 23

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
√N. D. Hoffman T452B
File

LAB NUMBER: M84-1410
DATE: 6/14/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 6/5/84

Analysis	North	Center
pH (S.U.)	8.6	8.2
NO_3 as N (mg/L)	600	3.1
Gross Alpha (pCi/L)	142 ± 63	8 ± 15
Gross Beta (pCi/L)	58 ± 46	29 ± 31

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
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GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley T-452B
N. D. Hoffman T-452B
R. L. Henry T-452B
R. D. Gaskins 374
File

LAB NUMBER: M84-1417
DATE: 8/15/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

207B Solar Pond - Quarterly Sample Received: 6/5/84

Analysis	Result
pH (S.U.)	9.6
NO_3 as N (mg/L)	2650
Total Dissolved Solids (mg/L)	2109
Gross Alpha (pCi/L)	2886 ± 2423
Gross Beta (pCi/L)	722 ± 250
Pu - 239 (pCi/L)	$(3.0 \pm 1.9) \times 10^1$
Am - 241 (pCi/L)	$(9.7 \pm 3.4) \times 10^1$
U (pCi/L)	$(3.3 \pm 0.2) \times 10^3$
^3H (pCi/L)	$(6.4 \pm 0.6) \times 10^3$

ANALYTICAL REPORT

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ENERGY SYSTEMS GROUP
P.O. BOX 464
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GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1347
DATE: 6/14/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/29/84

Analysis	North	Center
pH (S.U.)	8.7	9.6
NO_3 as N (mg/L)	600	1.7
Gross Alpha (pCi/L)	145 ± 64	20 ± 19
Gross Beta (pCi/L)	37 ± 37	8 ± 25

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P.O. BOX 464
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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
file

LAB NUMBER: M84-1298
DATE: 6/7/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/22/84

Analysis	North	Center
pH (S.U.)	8.7	10.8
NO_3 as N (mg/L)	628	5.8
Gross Alpha (pCi/L)	134 ± 59	6 ± 14
Gross Beta (pCi/L)	47 ± 56	17 ± 33

ANALYTICAL REPORT

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ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1221
DATE: 6/7/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/15/84

Analysis	North	Center
pH (S.U.)	8.5	10.9
NO_3 as N (mg/L)	605	6.1
Gross Alpha (pCi/L)	132 ± 59	12 ± 13
Gross Beta (pCi/L)	51 ± 41	-11 ± 26

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ENERGY SYSTEMS GROUP
P.O. BOX 464
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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
✓File

LAB NUMBER: M84-1158
DATE: 6/7/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/8/84

Analysis	North	Center
pH (S.U.)	8.2	10.3
NO_3 as N (mg/L)	628	3.2
Gross Alpha (pCi/L)	121 ± 53	18 ± 19
Gross Beta (pCi/L)	51 ± 31	5 ± 25

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P.O. BOX 464
GOLDEN, COLORADO 80401

ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1091
DATE: 5/18/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/1/84

Analysis	North	Center
pH (S.U.)	8.5	11.2
NO_3 as N (mg/L)	561	4.8
Gross Alpha (pCi/L)	105 ± 48	-3 ± 12
Gross Beta (pCi/L)	43 ± 32	0 ± 24

ANALYTICAL REPORT

OODWELL INTERNATIONAL
NERGY SYSTEMS GROUP
.O. BOX 464
OLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

ISTRIBUTION:

. L. Henry T452B
. T. Illsley T452B
. D. Gaskins 374
. D. Hoffman T452B
ile

LAB NUMBER: M84-1012
DATE: 5/9/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

AMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 4/24/84

nalysis	North	Center
H (S.U.)	8.3	11.0
NO_3 as N (mg/L)	645	4.8
ross Alpha (pCi/L)	162 ± 70	18 ± 14
ross Beta (pCi/L)	49 ± 33	23 ± 26

ANALYTICAL REPORT

OCDELL INTERNATIONAL
NERGY SYSTEMS GROUP
.O. BOX 464
OLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

ISTRIBUTION:

. L. Henry T452B
. T. Illsley T452B
. D. Gaskins 374
. D. Hoffman T452B
ile

LAB NUMBER: M84-963
DATE: 5/9/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

AMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 4/17/84

alysis	North	Center
H (S.U.)	8.4	11.1
O_3 as N (mg/L)	563	5.5
ross Alpha (pCi/L)	98 ± 48	6 ± 17
ross Beta (pCi/L)	71 ± 41	21 ± 25

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry	T452B
C. T. Hilsley	T452B
R. D. Haskins	374
File	

LAB NUMBER: M84-902
DATE: 4-16-84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B
Samples: 1) North 2) Center
Received: 4-10-84

ANALYSIS RESULTS

Analysis	North	Center
Gross Alpha (pCi/L)	209 ± 91	2 ± 16
Gross Beta (pCi/L)	53 ± 42	12 ± 27
pH (S.U.)	8.5	11.1
NO_3 as N (mg/L)	537	3.9

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
√N. D. Hoffman T452B
File

LAB NUMBER: M84-1410
DATE: 6/14/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 6/5/84

Analysis	North	Center
pH (S.U.)	8.6	8.2
NO_3 as N (mg/L)	600	3.1
Gross Alpha (pCi/L)	142 ± 63	8 ± 15
Gross Beta (pCi/L)	58 ± 46	29 ± 31

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P.O. BOX 464
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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley T-452B
N. D. Hoffman T-452B
R. L. Henry T-452B
R. D. Gaskins 374
File

LAB NUMBER: M84-1417
DATE: 8/15/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

207B Solar Pond - Quarterly Sample Received: 6/5/84

Analysis	Result
pH (S.U.)	9.6
NO_3 as N (mg/L)	2650
Total Dissolved Solids (mg/L)	2109
Gross Alpha (pCi/L)	2886 ± 2423
Gross Beta (pCi/L)	722 ± 250
Pu - 239 (pCi/L)	$(3.0 \pm 1.9) \times 10^1$
Am - 241 (pCi/L)	$(9.7 \pm 3.4) \times 10^1$
U (pCi/L)	$(3.3 \pm 0.2) \times 10^3$
^3H (pCi/L)	$(6.4 \pm 0.6) \times 10^3$

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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1347
DATE: 6/14/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/29/84

Analysis	North	Center
pH (S.U.)	8.7	9.6
NO_3 as N (mg/L)	600	1.7
Gross Alpha (pCi/L)	145 ± 64	20 ± 19
Gross Beta (pCi/L)	37 ± 37	8 ± 25

ANALYTICAL REPORT

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GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
file

LAB NUMBER: M84-1298
DATE: 6/7/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/22/84

Analysis	North	Center
pH (S.U.)	8.7	10.8
NO_3 as N (mg/L)	628	5.8
Gross Alpha (pCi/L)	134 ± 59	6 ± 14
Gross Beta (pCi/L)	47 ± 56	17 ± 33

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1221
DATE: 6/7/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/15/84

Analysis	North	Center
pH (S.U.)	8.5	10.9
NO_3 as N (mg/L)	605	6.1
Gross Alpha (pCi/L)	132 ± 59	12 ± 13
Gross Beta (pCi/L)	51 ± 41	-11 ± 26

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
✓File

LAB NUMBER: M84-1158
DATE: 6/7/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/8/84

Analysis	North	Center
pH (S.U.)	8.2	10.3
NO_3 as N (mg/L)	628	3.2
Gross Alpha (pCi/L)	121 ± 53	18 ± 19
Gross Beta (pCi/L)	51 ± 31	5 ± 25

ANALYTICAL REPORT

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GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
File

LAB NUMBER: M84-1091
DATE: 5/18/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 5/1/84

Analysis	North	Center
pH (S.U.)	8.5	11.2
NO_3 as N (mg/L)	561	4.8
Gross Alpha (pCi/L)	105 ± 48	-3 ± 12
Gross Beta (pCi/L)	43 ± 32	0 ± 24

ANALYTICAL REPORT

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OLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

ISTRIBUTION:

. L. Henry T452B
. T. Illsley T452B
. D. Gaskins 374
. D. Hoffman T452B
ile

LAB NUMBER: M84-1012
DATE: 5/9/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

AMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample) 1) North 1) Center
Received: 4/24/84

nalysis	North	Center
H (S.U.)	8.3	11.0
NO_3 as N (mg/L)	645	4.8
ross Alpha (pCi/L)	162 ± 70	18 ± 14
ross Beta (pCi/L)	49 ± 33	23 ± 26

ANALYTICAL REPORT

OCCIDENTAL INTERNATIONAL
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GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

J. L. Henry T452B
J. T. Illsley T452B
J. D. Gaskins 374
J. D. Hoffman T452B
File

LAB NUMBER: M84-963
DATE: 5/9/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B (Weekly Sample)

1) North 1) Center
Received: 4/17/84

Analysis	North	Center
pH (S.U.)	8.4	11.1
NO_3 as N (mg/L)	563	5.5
Gross Alpha (pCi/L)	98 ± 48	6 ± 17
Gross Beta (pCi/L)	71 ± 41	21 ± 25

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P.O. BOX 464
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ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

R. L. Henry	T452B
C. T. Illsley	T452B
R. D. Gaskins	374
File	

LAB NUMBER: M84-902
DATE: 4-16-84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Evaporation Pond 207B
Samples: 1) North 2) Center
Received: 4-10-84

ANALYSIS RESULTS

Analysis	North	Center
Gross Alpha (pCi/L)	209 ± 91	2 ± 16
Gross Beta (pCi/L)	53 ± 42	12 ± 27
pH (S.U.)	8.5	11.1
NO_3 as N (mg/L)	537	3.9

Rockwell International
Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPORT

Account No. 331 Date 4-10-84 Lab. No. M84-825

Henry T452B
Illsley T452B
Gaskins 374
Hoffman T452B

Reported by
Approved J. A. Palcic

Description

Solar Evaporation Pond 207B - 1) North 2) Center

Received: 4-3-84

Results

Analysis	North	Center
Ph (S.U.)	8.2	10.2
NO_3 as N (mg/L)	531	4.7
Gross Alpha (pCi/L)	283 ± 133	18 ± 21
Gross Beta (pCi/L)	72 ± 47	21 ± 29

Rockwell International
Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPORT

Account No. 331 Date 4-3-84 Lab. No. M84-766

L. Henry T452B
T. Illsley T452B
D. Gaskins 374
D. Hoffman T452B

Reported by

Approved J. A. Palcic

Description

Solar Evaporation Pond 207B - Samples North & Center

Received: 3-27-84

Results

Analysis	North	Center
Gross Beta (pCi/L)	53 ± 40	3 ± 23
Gross Alpha (pCi/L)	139 ± 63	12 ± 15
pH	8.1	10.5
NO_3 as N (mg/L)	510	7.1

Rockwell International
Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPORT

Account No. 331 Date 3-27-84 Lab. No. M84-688

To
R. L. Henry T452B
C. T. Illsley T452B
R. D. Gaskins 374
N. D. Hoffman T452B
File

Reported by

Approved J. A. Palcic

Sample Description

Solar Evaporation Pond 207B - Samples North and Center

Received 3-20-84

Analysis Results

	North	Center
Gross Alpha (pCi/L)	144 ± 74	6 ± 21
Gross Beta (pCi/L)	45 ± 36	3 ± 24
pH	8.6	11.3
NO_3 as N (mg/L)	570	9.6

Rockwell International

Energy Systems Group
Henry Flats Plant
P.O. Box 464
Boulder, Colorado 80401

ANALYTICAL REPORT

Account No. 331 Date 3-27-84 Lab. No. M84-635

.. Henry T452B
.. Illsley T452B
.. Gaskins 374
.. Hoffman T452B

Reported by

Approved J. A. Palcic

Description

Solar Evaporation Pond 207B - Samples North and Center

Received 3-13-84

.s Results

	North	Center
:s Alpha (pCi/L)	151 ± 81	2 ± 16
:s Beta (pCi/L)	37 ± 33	13 ± 22
	8.0	9.9
as N (mg/L)	1367	6.7

Rockwell International

Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPORT

L. Henry - T452B
T. Illsley - T452B
D. Gaskins - 374
D. Hoffman - T452B
e

Account No. 331

Date 3-23-84

Lab. No. M84-573

Reported by

Approved J. A. Palcic

Description
B North and Center Solar Ponds.
eived: 3-6-84

Results

	207B North	201B Center
ss Alpha (pCi/L)	80 ± 42	3 ± 15
ss Beta (pCi/L)	51 ± 40	12 ± 30
	8.2	10.9
as N (mg/L)	569	8.6

1-79) PPQC 4-7.3

Rockwell International
Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPORT

R. L. Henry - T452B Account No. 331 Date 3-23-84 Lab. No. M84-514
C. T. Illsley - T452B
R. D. Gaskins - 374
M. D. Hoffman - T452B
File

Reported by

Approved J. A. Palcic

Sample Description

207B North Solar Pond. Received 2-28-84

Analysis Results

Analysis	Result
Gross Alpha (pCi/L)	76 ± 33
Gross Beta (pCi/L)	66 ± 41
pH	8.3
NO_3 as N (mg/L)	420

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Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPOR

To R.L. Henry 452
C.T. Illsley 452
R.D. Gaskins 374
N.D. Hoffman 452
File

Account No. 331

Date 2/29/84

Lab. No. M84-451

Reported by

Approved J.A. Palcic

Sample Description

SOLAR EVAP. POND 207B CENTER & NORTH

Received: 2/21/84

Analysis Results

ANALYSIS	RESULTS	
	North	Center
Gross Alpha (pCi/L)	70±31	6±15
Gross Beta (pCi/L)	34±32	9±22
pH	8.4	10.6
NO_3^- as N	550	8.2

Rockwell International
Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPO

To
R.L. Henry 452
C.T. Illsley 452
R.D. Gaskins 374
N.D. Hoffman 452
File

Account No. 331

Date 2/27/84

Lab. No. M84-395

Reported by

Approved J.A. Palcic

Sample Description

SOLAR EVAP. POND 207 B NORTH & CENTER

Received: 2/14/84

Analysis Results

ANALYSIS	RESULTS	
	North	Center
pH	8.1	9.7
NO_3^- as N (mg/L)	579	8.6
Gross Alpha (pCi/L)	110±56	2±16
Gross Beta (pCi/L)	25±31	3±24

Rockwell International
Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPO

To
R.L. Henry 452
C.T. ILlsley 123
R.D. Gaskins 374
N.D. Hoffman 452
File

Account No. 331

Date 2/16/84

Lab. No. M84-311

Reported by

Approved J.A. Palcic

Sample Description

SOLAR EVAP. POND 207B CENTER

Received: 2/7/84

Analysis Results

ANALYSIS	RESULTS
Alpha (pCi/L)	5±14
Beta (pCi/L)	2±22
pH	9.1
NO_3^- as N (mg/L)	7.1

Rockwell International
Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPORT

To
R.L. Henry 452
C.T. Illsley 123
R.D. Gaskins 374
N.D. Hoffman 452
File

Account No. 331

Date 2/8/84

Lab. No. M84-248

Reported by

Approved J.A. Palcic

Sample Description

SOLAR EVAP. POND 207B CENTER

Received: 1/31/84

Analysis Results

ANALYSIS	RESULTS
Gross Alpha (pCi/L)	20±23
Gross Beta (pCi/L)	23±26
pH	8.4
NO_3^- as N (mg/L)	5.5

Rockwell International

Energy Systems Group
Rocky Flats Plant
P.O. Box 464
Golden, Colorado 80401

ANALYTICAL REPORT

Henry 452
Illsley 123
Gaskins 374
Hoffman 452
le

Account No. 331 Date 2/6/84 Lab. No. M84-0182

Reported by

Approved J.A. Palcic

Description

SOLAR EVAP. PONE 207 B CENTER

eived: 1/24/84

s Results

ANALYSIS	RESULTS
Gross Alpha (pCi/L)	6±12
Gross Beta (pCi/L)	5±25
pH	7.3
NO_3^- as N (mg/L)	10.1

POND 207C DATA

207C

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
NORTH AMERICAN SPACE OPERATIONS
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley, HS&E T452B
R. L. Henry, HS&E T452B
File

LAB NUMBER: M85-2224
DATE: 10-03-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

207 A and C Solar Pond - Quarterly - Received: 9-11-85

ANALYSIS RESULTS

Analysis	207 A	207 C
pH (S.U.)	10.0	12.5
NO^-_3 as N (mg/L)	21739	18841
T. D. S. (mg/L)	171976	171135
CN^- (ppm)	1.7	<0.1
Be (ug/ml)	0.1	0.6
Gross Alpha (pCi/L)	$(5.6 \pm 0.0) \times 10^4$	$(8.8 \pm 0.6) \times 10^3$
Gross Beta (pCi/L)	$(2.7 \pm 0.6) \times 10^4$	$(6.4 \pm 1.1) \times 10^3$
Pu-239 (pCi/L)	$(0.0 \pm 4.2) \times 10^2$	$(1.4 \pm 0.3) \times 10^3$
Am-241 (pCi/L)	$(0.0 \pm 1.0) \times 10^3$	$(1.3 \pm 0.1) \times 10^4$
U (pCi/L)	$(2.6 \pm 0.2) \times 10^4$	$(1.8 \pm 0.3) \times 10^3$
^3H (pCi/L)	$(3.0 \pm 0.8) \times 10^3$	$(7.2 \pm 0.9) \times 10^2$

207C

7.6

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
NORTH AMERICAN SPACE OPERATIONS
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

✓C. T. Illsley, HS&E T-452B
File

LAB NUMBER: M85-1557
DATE: 7-11-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Pond 207A & 207C - Quarterly Received: 6-25-85

ANALYSIS RESULTS

Analysis	207A	207C
pH (S.U.)	10.1	10.7
NO^-_3 as N (mg/L)	14800	8000
T.D.S. (mg/L)	10360	6420
Be (ug/ml)	0.1	<0.1
Gross Alpha (pCi/L)	2.4×10^4	6.5×10^3
Gross Beta (pCi/L)	$(5.2 \pm 1.0) \times 10^3$	$(1.1 \pm 0.2) \times 10^4$
CN^- (mg/L)	<0.01	<0.01

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley, HS&E T452B
R. L. Henry, HS&E T452B
File

LAB NUMBER: M85-0718
DATE: 4-25-85
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

207-C Solar Pond - Quarterly - Received: 3-25-85

ANALYSIS RESULTS

Analysis	Results
pH (S.U.)	7.7
NO^-_3 as N (mg/L)	2593
T. D. S. (mg/L)	27304
CN^- (ppm)	1.9
Be (ug/ml)	<0.1
Gross Alpha (pCi/L)	$(2.5 \pm 0.4) \times 10^3$
Gross Beta (pCi/L)	$(4.3 \pm 0.3) \times 10^3$
Pu-239 (pCi/L)	$(2.1 \pm 3.2) \times 10^1$
Am-241 (pCi/L)	$(1.1 \pm 0.5) \times 10^2$
U (pCi/L)	$(3.7 \pm 0.4) \times 10^3$
^3H (pCi/L)	0.0 ± 0.0

INFO

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley, HS&E T452B
R. L. Henry, HS&E T452B
File

LAB NUMBER: M84-2976
DATE: 12-24-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar Pond 207C - Received: 12-5-84

ANALYSIS RESULTS

ANALYSIS	RESULTS
pH (S.U.)	9.8
NO_3 as N (mg/L)	7050
T.D.S (mg/L)	66432
Gross Alpha (pCi/L)	$(1.5 \pm 0.3) \times 10^4$
Gross Beta (pCi/L)	405 ± 79
Pu (pCi/L)	$(4.6 \pm 1.3) \times 10^2$
U (pCi/L)	$(1.5 \pm 0.1) \times 10^4$
Am (pCi/L)	$(0.4 \pm 1.0) \times 10^2$
H^3 (pCi/L)	$(1.5 \pm 0.6) \times 10^3$

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley, T452B HS&E
File

LAB NUMBER: M84-2276
DATE: 9-27-84
ACCOUNT NO: 331

APPROVED: J. A. Blair

SAMPLE DESCRIPTION

Solar pond 207C - Quarterly sample - Received: 9-13-84

ANALYSIS RESULTS

Analysis	Results
pH (S. U.)	10.0
NO_3 as N (mg/L)	7100
TDS (mg/L)	66757
Gross Alpha (pCi/L)	$(1.0 \pm 1.7) \times 10^4$
Gross Beta (pCi/L)	771 ± 227
Pu (pCi/L)	$(1.2 \pm 0.8) \times 10^2$
Am (pCi/L)	$(1.4 \pm 0.9) \times 10^2$
U (pCi/L)	$(1.3 \pm 0.1) \times 10^4$
Tritium (pCi/L)	$(1.2 \pm 0.4) \times 10^3$

ANALYTICAL REPORT

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley T-452B
N. D. Hoffman T-452B
R. L. Henry T-452B
R. D. Gaskins 374
File

LAB NUMBER: M84-1417
DATE: 8/15/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

207C Solar Pond - Quarterly Sample Received: 6/5/84

Analysis	Result
pH (S.U.)	9.6
NO_3 as N (mg/L)	2650
Total Dissolved Solids (mg/L)	2109
Gross Alpha (pCi/L)	2886 ± 2423
Gross Beta (pCi/L)	722 ± 250
Pu - 239 (pCi/L)	$(3.0 \pm 1.9) \times 10^1$
Am - 241 (pCi/L)	$(9.7 \pm 3.4) \times 10^1$
U^- (pCi/L)	$(3.3 \pm 0.2) \times 10^3$
^3H (pCi/L)	$(6.4 \pm 0.6) \times 10^3$

ROCKWELL INTERNATIONAL
ENERGY SYSTEMS GROUP
P.O. BOX 464
GOLDEN, COLORADO 80401

ANALYTICAL REPORT

GENERAL LABORATORY
BUILDING 881

DISTRIBUTION:

C. T. Illsley T-452B
N. D. Hoffman T-452B
File

LAB NUMBER: M84-712
DATE: 5/9/84
ACCOUNT NO: 331

APPROVED: J. A. Palcic

SAMPLE DESCRIPTION

Solar Pond 207C - Monthly

Received: 3/22/84

Analysis	Result
pH (S.U.)	9.7
NO_3 as N (mg/L)	0.4
T.D.S. (mg/L)	2090
Gross Alpha (pCi/L)	$(2.1 \pm 1.5) \times 10^3$
Gross Beta (pCi/L)	$(6.2 \pm 1.7) \times 10^2$
H^3 (pCi/L)	$(4.0 \pm 1.7) \times 10^2$
Pu (pCi/L)	4.9×10^1
Am (pCi/L)	1.2×10^1
U (pCi/L)	2.3×10^3

POND 207A TCLP SLUDGE DATA

SAMPLE NUMBER S-POND-03-21-88

DATE 3/25/88

TOTAL SPECIFIC ACTIVITY

ELEMENT	nCi/G
Gross α	0.452
Gross β	0.354
Pu (total)	0.45
Am^{241}	< 6.0*
$U^{233/234/238}$	0.02

TOTAL VOLUME 520 ml

DENSITY ~ 1.0

MASS 520g

TOTAL ACTIVITY < 3.3 μCi

TOTAL nCi/G < 6.47

SIGN OFF Jenny Menard
per verbal report by Lou Eng
Rockwell International
Rocky Flats Plant
written confirmation to fol

* detection limit for rad screening

WESTON

Client: Rockwell
RFW Batch: 8803-875

Determination of Methanol in TCLP Leachates.

The leachate was analyzed by Packed Column Gas Chromatography with a Flame Ionization Detector.

GC Conditions:

Column: Six Foot x 1/4 inch glass, pack with 20% Carbowax 20M on Supelcoport (80/100 mesh)

Oven Temp: 70°C Isothermal

Injector Temp: 200°C

Detector Temp: 200°C

RFW #	CLIENT ID	METHANOL
8803-875-002	TCLP Leachate of S-Pond	<15 ug/mL
8803-875-002	TCLP Leachate of S-Pond Dup	<15 ug/mL
	TCLP Blank	<15 ug/mL

Date Collected: 03-21-88
Date Leached: 03-28,29-88
Date Analyzed: 03-31-88

The leachate was also screened for cyclohexanone, 1-butanol, ethylether and ethyl acetate. These analytes were not detected in the leachates (estimated detection limit of 200 ug/mL).

Carter P. Nulton, Ph.D.
Manager
Lionville Analytical Laboratory

4-1-88
DATE

WESTON Analytics
ROCKWELL
RFW # 8803-875, VOA's Only (Special List)
W.O.# 2029-21-01

1. The following qualifiers are used on the data summary:

   U - Indicates that the compound was analyzed for but not detected. The detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

   J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or where the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, it is reported as 3J.

   BS - Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps of the method. Spike recoveries are reported.

   BSD - Indicates blank spike duplicate.

   MS - Indicates matrix spike.

   MSD - Indicates matrix spike duplicate.

   DL - Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

   NA - Not applicable.

   DF - Dilution factor.

   NR - Not reported.

2. Samples Collected: 03-21-88
   Leaching Date : 03-28-88
   Analysis Date : 03-29,31-88

3. Samples were analyzed by the USEPA Method 8240.

4. Several Tentatively Identified Compounds (TIC's) were detected in the method blank and the sample.

Carter P. Nulton, Ph.D. 4-1-88
DATE
Manager
Lionville Analytical Laboratories

WESTON ANALYTICS
GC/MS DATA SUMMARY
VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8803-875 Client: ROCKWELL (TCLP) Page: 1

Sample Information	Cust ID:	BLANK 3/29	TCLP BLK	S-POND	BLANK 3/31	TCLP BLK	S-POND
	RFW#:	VWBLK	BLANK	002	VWBLK	BLANK	002
	Matrix:	Water	Leachate	Leachate	Water	Leachate	Leachate
	D.F.:	1	1	1	1	1	1
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Surrogate Recovery (%)	Toluene-d8:	97 %	98 %	96 %	94 %	98 %	99 %
	Bromofluorobenzene:	95 %	94 %	86 %	98 %	101 %	104 %
	1,2-Dichloroethane-d4:	83 %	91 %	76 %	97 %	96 %	101 %
Methylene Chloride		7	15 B	15 B	8	4 JB	6 B
Acetone		19	8000 B	5000 B	16	4200 B	5100 B
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane		1 J	6 B	3 JB	5 U	5	2 J
4-Methyl-2-pentanone		10 U	17	2 JB	10 U	18	10 U
Tetrachloroethene		5 U	5 U	6	5 U	5 U	6
Trichloroethene		5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane		5 U	5 U	5 U	5 U	5 U	5 U
Toluene		5 U	10	2 JB	3 J	9 B	2 JB
Chlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene		5 U	4 J	5 U	5 U	3 J	5 U
Total Xylenes		5 U	31	5 U	5 U	29	5 U
1,2-Dichlorobenzene		5 U	5 U	5 U	5 U	5 U	5 U
Isobutanol (a)		20 U	20 U	20 U	20 U	20 U	20 U
n-Butanol (a)		ND	ND	ND	ND	ND	ND
Cyclohexanone (a)		ND	ND	ND	ND	ND	ND
Ethyl Acetate (a)		ND	ND	ND	ND	ND	ND
Ethyl Ether (a)		ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane (a)		ND	1400	290 B	ND	890	260 B

(a) By Library Search only

U=Analyzed, not detected. B=Present in blank. NRP=Not Reported
J=Present at less than detection limit. NR=Not requested.

DATA SUMMARY FOR: ROCKWELL

R.F.W. NO.: 8803-875-TCLP BLANK

SAMPLE DESCRIPTION: TCLP BLANK 03-28

TENTATIVELY IDENTIFIED COMPOUNDS
(VOA FRACTION)

COMPOUND	SCAN #	CONCENTRATION (ug/L)
C_6-ALKENES/CYCLOALKANES	427	120 J
UNKNOWN	488	25 J
ALKANES	546	180 J
C_6-ESTER	665	4 J
C_7-ESTER	748	10 J

DATA SUMMARY FOR: ROCKWELL

R.F.W. NO.: 8803-875-002

SAMPLE DESCRIPTION: TCLP S-POND

TENTATIVELY IDENTIFIED COMPOUNDS
(VOA FRACTION)

COMPOUND	SCAN #	CONCENTRATION (ug/L)
C_6-CYCLOALKANES/OLEFINS	427	140 J
MIXED HYDROCARBONS	488	14 J
$>C_6$-ALKANES	546	110 J
C_7-ESTER	749	5 J

DATA SUMMARY FOR: ROCKWELL

R.F.W. NO.: 8803-875-TCLP BLANK

SAMPLE DESCRIPTION: TCLP BLANK 03-28

TENTATIVELY IDENTIFIED COMPOUNDS
(VOA FRACTION)

COMPOUND	SCAN #	CONCENTRATION (ug/L)
C_6-CYCLOALKANES	272	88 J
UNKNOWN	329	12 J
UNKNOWN	336	9 J
UNKNOWN	388	190 J
UNKNOWN	442	5 J
UNKNOWN	600	18 J

DATA SUMMARY FOR: ROCKWELL

R.F.W. NO.: 8803-875-002

SAMPLE DESCRIPTION: TCLP S-POND

TENTATIVELY IDENTIFIED COMPOUNDS
(VOA FRACTION)

COMPOUND	SCAN #	CONCENTRATION (ug/L)
C_6-CYCLOALKANES	269	120 J
UNKNOWN	327	10 J
UNKNOWN	387	130 J
UNKNOWN	600	8 J

APPENDIX E-2

LABORATORY TEST RESULTS
SOLAR PONDS 207A AND 207-B
NORTH INTERCEPTOR TRENCH PUMP HOUSE
BUFFER ZONE
APRIL AND MAY 1986

INTRODUCTION

The results presented herein are for samples from Ponds 207-A and 207-B North, the interceptor trench pump house and the buffer zone collected in April and May 1986 and resampling of the interceptor trench pump house in August 1986.

The samples are generally designated by a three character code. The last character designates the analytical sample code as shown in Table A. The remaining portion of the codes are as follows:

Liquids

Pond 207-A liquid is designated by a prefix of 207A and a two character code. The first character is, A, B or C, indicates the location, north, center or south, respectively, that the sample was taken along the west side of the pond. The meaning of the second character is shown in Table A.

Pond 207-B North liquid is designed by a prefix 207B and a two character code. The first character of the code is the same as described for the Pond 207-A liquid samples. The meaning of the second character is shown in Table A.

TABLE A

ANALYTICAL SAMPLE CODE

Sample Type	Code	Designation
Water	1	Volatiles
	2	Semi-Volatiles
	3	Metals
	4	Cyanide
	5	Phenolics
	6	RCRA Waste Characterization
	7	Radiochemistry
	8	Tritium
Soil/Sediment	1	Volatiles
	2	Semi-Volatiles
	3	Metals and Cyanide
	4	RCRA Waste Characteristics
	5	Radiochemistry

For samples from the interceptor trench pump house, the first character, L, indicates a liquid sample. The liquid was sampled in triplicate, A,B or C, designated by the second character. A second character of 0 (zero) indicates a field blank sample. In the resampling, the sample code has a prefix of ITPH.

Soils and Sediment

Sediment from Pond 207-A is designated with a 207-A prefix and three character code. The first character, S, indicates a sediment sample. The second character, A, B or C, indicates the location, north, center or south, respectively, that the sample was taken along the west side of the pond. The meaning of the third character is shown in Table A.

For samples from the interceptor trench pump house, the first characters, S, indicates a sediment sample. The second character, A or B, indicates the initial or duplicate sample, respectively. In the resampling, the sample code has a prefix of ITPH. The meaning of the third character is shown in Table A.

Samples from the buffer zone are designated by a three character code. The first character of the code indicates the composite sample number, 1, 2 or 3. The second character, A, B or C, indicates the sample depth. A surface scrape is designated by A, a sample from 0 to 6 inches by B and a sample from 6 to 12 inches by C.

Solar Pond 207A liquor

VOLATILE COMPOUNDS

Compound ug/l	Sample Numbers A1	B1	C1
Chloromethane	1000U	100U	NA
Bromomethane	1000U	100U	
Vinyl Chloride	1000U	100U	
Chloroethane	1000U	100U	
Methylene Chloride	500U	50U	
Acetone	*260J	*100J	
Carbon Disulfide	500U	50U	
1,1 Dichloroethene	500U	50U	
1,1 Dichloroethane	500U	50U	
Trans-1,2- Dichloroethene	500U	50U	
Chloroform	500U	50U	
1,2 Dichloroethane	500U	50U	
2-Butanone	1000U	100U	
1,1,1-Trichloroethane	500U	50U	
Carbon Tetrachloride	500U	50U	
Vinyl Acetate	1000U	100U	
Bromodichloromethane	500U	50U	
1,2 Dichloropropane	500U	50U	
Trans-1,3-Dichloropropene	500U	50U	
Trichloroethene	500U	50U	
Dibromochloromethane	500U	50U	
1,1,2-Trichloroethane	500U	50U	
Benzene	500U	50U	
cis-1,3-Dichloropropene	500U	50U	
2-Chloroethylvinylether	1000U	100U	
Bromoform	500U	50U	
4-Methyl-2-Pentanone	1000U	100U	
2-Hexanone	1000U	100U	
Tetrachloroethene	500U	50U	
1,1,2,2-Tetrachloroethane	500U	50U	
Toluene	500U	50U	
Chlorobenzene	500U	50U	
Ethylbenzene	500U	50U	
Styrene	500U	50U	
Total Xylenes	500U	50U	

U - indicates that compound was analyzed for but not detected. The number associated with the letter U is the minimum detection limit attainable for the sample.

J - indicates an estimated value.

Solar Pond 207A Sediments

VOLATILE COMPOUNDS

Compound ug/Kg	Sample Number SA1	SB1	SC1
Chloromethane	3600U	36U	4000U
Bromomethane	3600U	36U	4000U
Vinyl Chloride	3600U	36U	4000U
Chloroethane	3600U	36U	4000U
Methyl~~ene~~ Chloride	1800U	18U	2000U
Acetone	* 4680	* 5JB	*1600JB
Carbon Disulfide	1800U	18U	2000U
1,1 Dichloroethene	1800U	18U	2000U
1,1 Dichloroethane	1800U	18U	2000U
Trans-1,2- Dichloroethene	1800U	18U	2000U
Chloroform	1800U	18U	2000U
1,2 Dichloroethane	1800U	18U	2000U
2-Butanone	3600U	36U	4000U
1,1,1-Trichloroethane	1800U	18U	2000U
Carbon Tetrachloride	1800U	18U	2000U
Vinyl Acetate	3600U	36U	4000U
Bromodichloromethane	1800U	18U	2000U
1,2 Dichloropropane	1800U	18U	2000U
Trans-1,3-Dichloropropene	1800U	18U	2000U
Trichloroethene	1800U	18U	2000U
Dibromochloromethane	1800U	18U	2000U
1,1,2-Trichloroethane	1800U	18U	2000U
Benzene	1800U	18U	2000U
cis-1,3-Dichloropropene	1800U	18U	2000U
2-Chloroethylvinylether	3600U	36U	4000U
Bromoform	1800U	18U	2000U
4-Methyl-2-Pentanone	3600U	36U	4000U
2-Hexanone	3600U	36U	4000U
Tetrachloroethene	1800U	*200B	*1200JB
1,1,2,2-Tetrachloroethane	1800U	18U	2000U
Toluene	1800U	18U	2000U
Chlorobenzene	1800U	18U	2000U
Ethylbenzene	1800U	18U	2000U
Styrene	1800U	18U	2000U
Total Xylenes	1800U	18U	2000U

U - indicates compound was analyzed for but not detected. The number associated with the letter U is the minimum attainable detection limit for the sample.

J - indicates an estimated value.
B - analyte was found in blank as well as the sample; indicates possible blank contamination.

Solar Pond 207B liquor

VOLATILE COMPOUNDS

Compound ug/l	Sample Numbers A1	B1	C1	01
Chloromethane	10U	10U	10U	10U
Bromomethane	10U	10U	10U	10U
Vinyl Chloride	10U	10U	10U	10U
Chloroethane	10U	10U	10U	10U
Methylene Chloride	*28B	*35B	*19B	*71B
Acetone	10U	10U	10U	10U
Carbon Disulfide	5U	5U	5U	5U
1,1 Dichloroethene	5U	5U	5U	5U
1,1 Dichloroethane	5U	5U	5U	5U
Trans-1,2- Dichloroethene	5U	5U	5U	5U
Chloroform	5U	5U	5U	5U
1,2 Dichloroethane	5U	5U	5U	5U
2-Butanone	10U	10U	10U	*20
1,1,1-Trichloroethane	5U	5U	5U	5U
Carbon Tetrachloride	5U	5U	5U	5U
Vinyl Acetate	10U	10U	10U	10U
Bromodichloromethane	5U	5U	5U	5U
1,2 Dichloropropane	5U	5U	5U	5U
Trans-1,3-Dichloropropene	5U	5U	5U	5U
Trichloroethene	5U	5U	5U	5U
Dibromochloromethane	5U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U
Benzene	5U	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U
2-Chloroethylvinylether	10U	10U	10U	10U
Bromoform	5U	5U	5U	5U
4-Methyl-2-Pentanone	10U	10U	10U	10U
2-Hexanone	10U	10U	10U	10U
Tetrachloroethene	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U
Toluene	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U
Styrene	5U	5U	5U	5U
Total Xylenes	5U	5U	5U	5U

U - Indicates compound was analyzed for but not detected. The number associated with the letter U is the minimum attainable detection limit for the sample.

B - Analyte was found in the blank as well as the sample; indicates possible blank contamination.

Interceptor Trench Pump House Water

VOLATILE COMPOUNDS

Compound ug/l	Sample Numbers LA1	LB1	LC1	LO1
Chloromethane	10U	10U	10U	10U
Bromomethane	10U	10U	10U	10U
Vinyl Chloride	10U	10U	10U	10U
Chloroethane	10U	10U	10U	10U
Methylene Chloride	*3BJ	*10B	*14B	*99B
Acetone	10U	10U	10U	10U
Carbon Disulfide	5U	5U	5U	5U
1,1 Dichloroethene	5U	5U	5U	5U
1,1 Dichloroethane	5U	5U	5U	5U
Trans-1,2- Dichloroethene	5U	5U	5U	5U
Chloroform	*3J	*6	5U	3J
1,2-Dichloroethane	5U	5U	5U	5U
2-Butanone	10U	10U	10U	*110
1,1,1-Trichloroethane	5U	5U	5U	5U
Carbon Tetrachloride	*7	*6	*7	5U
Vinyl Acetate	10U	10U	10U	10U
Bromodichloromethane	5U	5U	5U	5U
1,2 Dichloropropane	5U	5U	5U	5U
Trans-1,3-Dichloropropene	5U	5U	5U	5U
Trichloroethene	*7	*8U	*8	5U
Dibromochloromethane	5U	5U	5U	5U
1,1,2-Trichloroethane	5U	5U	5U	5U
Benzene	*1J	5U	5U	5U
cis-1,3-Dichloropropene	5U	5U	5U	5U
2-Chloroethylvinylether	10U	10U	10U	10U
Bromoform	5U	5U	5U	5U
4-Methyl-2-Pentanone	10U	10U	10U	10U
2-Hexanone	10U	10U	10U	10U
Tetrachloroethene	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5U	5U
Toluene	5U	5U	5U	5U
Chlorobenzene	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U
Styrene	5U	5U	5U	5U
Total Xylenes	5U	5U	5U	5U

U - Indicates compound was analyzed for but not detected. The number associated with the letter U is the minimum attainable detection limit for the sample.

J - Indicates an estimated value.

B - Analyte was found in blank as well as the sample indicating possible blank contamination.

Interceptor Trench Pump House Sediments

VOLATILE COMPOUNDS

Compound ug/Kg	Sample Numbers SA1	SB1
Chloromethane	17U	16U
Bromomethane	17U	16U
Vinyl Chloride	17U	16U
Chloroethane	17U	16U
Methylene Chloride	*44B	*27B
Acetone	*23	*47
Carbon Disulfide	*3BJ	*5JB
1,1 Dichloroethene	8U	8U
1,1 Dichloroethane	8U	8U
Trans-1,2- Dichloroethene	8U	8U
Chloroform	8U	8U
1,2 Dichloroethane	8U	8U
2-Butanone	17U	16U
1,1,1-Trichloroethane	8U	8U
Carbon Tetrachloride	8U	8U
Vinyl Acetate	17U	16U
Bromodichloromethane	8U	8U
1,2 Dichloropropane	8U	8U
Trans-1,3-Dichloropropene	8U	8U
Trichloroethene	3J	*2J
Dibromochloromethane	8U	8U
1,1,2-Trichloroethane	8U	8U
Benzene	8U	8U
cis-1,3-Dichloropropene	8U	8U
2-Chloroethylvinylether	17U	16U
Bromoform	8U	8U
4-Methyl-2-Pentanone	17U	16U
2-Hexanone	17U	16U
Tetrachloroethene	8U	8U
1,1,2,2-Tetrachloroethane	8U	8U
Toluene	8U	*7J
Chlorobenzene	8U	8U
Ethylbenzene	8U	8U
Styrene	8U	8U
Total Xylenes	8U	8U

U - Indicates compound was analyzed for but not detected. The number associated with the letter U is the minimum detection limit attainable for the sample.

J - Indicates as estimated value.

B - Analyte was found in the blank as well as the sample indicating possible blank contamination.

Buffer Zone Soils

VOLATILE COMPOUNDS

Composite 1 - Sample Numbers

Compound ug/Kg	surface scrape 1A1	0-6" 1B1	6-12" 1C1
Chloromethane	10U	13U	14U
Bromomethane	10U	13U	14U
Vinyl Chloride	10U	13U	14U
Chloroethane	10U	13U	14U
Methylene Chloride	5U	*46B	*39B
Acetone	10U	13U	*130
Carbon Disulfide	5U	*3BJ	*3BJ
1,1 Dichloroethene	5U	6U	7U
1,1 Dichloroethane	5U	6U	7U
Trans-1,2- Dichloroethene	5U	6U	7U
Chloroform	5U	6U	7U
1,2 Dichloroethane	5U	6U	7U
2-Butanone	10U	13U	*61
1,1,1-Trichloroethane	5U	6U	7U
Carbon Tetrachloride	5U	6U	7U
Vinyl Acetate	10U	13U	14U
Bromodichloromethane	5U	6U	7U
1,2 Dichloropropane	5U	6U	7U
Trans-1,3-Dichloropropene	5U	6U	7U
Trichloroethene	5U	6U	7U
Dibromochloromethane	5U	6U	7U
1,1,2-Trichloroethane	5U	6U	7U
Benzene	5U	6U	7U
cis-1,3-Dichloropropene	5U	6U	7U
2-Chloroethylvinylether	10U	13U	14U
Bromoform	5U	6U	7U
4-Methyl-2-Pentanone	10U	13U	14U
2-Hexanone	10U	13U	14U
Tetrachloroethene	5U	6U	7U
1,1,2,2-Tetrachloroethane	5U	6U	7U
Toluene	*1JB	6U	*3J
Chlorobenzene	5U	6U	7U
Ethylbenzene	5U	6U	7U
Styrene	5U	6U	7U
Total Xylenes	5U	6U	7U

U - Indicates compound was analyzed for but not detected. The number associated with the letter U is the minimum attainable detection limit for the sample.

J - Indicates an estimated value.

field or lab

B - Analyte was found in blank as well as the sample indicating possible blank contamination.

Buffer Zone Soils

VOLATILE COMPOUNDS

Composite 2 - Sample Numbers

Compound	ug/Kg	surface scrape 2A1	0-6" 2B1	6-12" 2C1
Chloromethane		10U	13U	NA
Bromomethane		10U	13U	
Vinyl Chloride		10U	13U	
Chloroethane		10U	13U	
Methylene Chloride		5U	*32B	
Acetone		*10B	13U	
Carbon Disulfide		5U	*2BJ	
1,1 Dichloroethene		5U	6U	
1,1 Dichloroethane		5U	6U	
Trans-1,2- Dichloroethene		5U	6U	
Chloroform		5U	6U	
1,2 Dichloroethane		5U	6U	
2-Butanone		10U	13U	
1,1,1-Trichloroethane		5U	6U	
Carbon Tetrachloride		5U	6U	
Vinyl Acetate		10U	13U	
Bromodichloromethane		5U	6U	
1,2 Dichloropropane		5U	6U	
Trans-1,3-Dichloropropene		5U	6U	
Trichloroethene		5U	6U	
Dibromochloromethane		5U	6U	
1,1,2-Trichloroethane		5U	6U	
Benzene		5U	6U	
cis-1,3-Dichloropropene		5U	6U	
2-Chloroethylvinylether		10U	13U	
Bromoform		5U	6U	
4-Methyl-2-Pentanone		10U	13U	
2-Hexanone		10U	13U	
Tetrachloroethene		5U	6U	
1,1,2,2-Tetrachloroethane		5U	6U	
Toluene		*1JB	6U	
Chlorobenzene		5U	6U	
Ethylbenzene		5U	6U	
Styrene		5U	6U	
Total Xylenes		5U	6U	

U - Indicates compound was analyzed for but not detected. The number associated with the letter U is the minimum attainable detection limit for the sample.

J - Indicates an estimated value.

B - Analyte was found in blank as well as the sample indicating possible blank contamination.

Buffer Zone Soils

VOLATILE COMPOUNDS

composite 3 - Sample Numbers

Compound ug/Kg	surface scrape 3A1	0-6" 3B1	6-12" 3C1
Chloromethane	10U	13U	13U
Bromomethane	10U	13U	13U
Vinyl Chloride	10U	13U	13U
Chloroethane	10U	13U	13U
Methylene Chloride	5U	*32B	*28B
Acetone	*10B	13U	*71
Carbon Disulfide	5U	*2BJ	6U
1,1 Dichloroethene	5U	7U	6U
1,1 Dichloroethane	5U	7U	6U
Trans-1,2- Dichloroethene	5U	7U	6U
Chloroform	5U	7U	6U
1,2 Dichloroethane	5U	7U	6U
2-Butanone	10U	*20	*26
1,1,1-Trichloroethane	5U	7U	6U
Carbon Tetrachloride	5U	7U	6U
Vinyl Acetate	10U	13U	13U
Bromodichloromethane	5U	7U	6U
1,2 Dichloropropane	5U	7U	6U
Trans-1,3-Dichloropropene	5U	7U	6U
Trichloroethene	5U	7U	6U
Dibromochloromethane	5U	7U	6U
1,1,2-Trichloroethane	5U	7U	6U
Benzene	5U	7U	6U
cis-1,3-Dichloropropene	5U	7U	6U
2-Chloroethylvinylether	10U	13U	13U
Bromoform	5U	7U	6U
4-Methyl-2-Pentanone	10U	13U	13U
2-Hexanone	10U	13U	13U
Tetrachloroethene	5U	7U	6U
1,1,2,2-Tetrachloroethane	5U	7U	6U
Toluene	*1JB	7U	6U
Chlorobenzene	5U	7U	6U
Ethylbenzene	5U	7U	6U
Styrene	5U	7U	6U
Total Xylenes	5U	7U	6U

U - Indicates compound was analyzed for but not detected. The number associated with the letter U is the minimum attainable detection limit for the sample.

J - Indicates an estimated value.

B - Analyte was found in blank as well as the sample indicating possible blank contamination.

Accu-Labs Research, Inc.
11485 W 48th Avenue Wheat Ridge, Colorado 80033
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July 16, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail Street
Denver, CO 80215

RE: 9299-21884-6
Date Samples Rec'd 5-7-86
Project 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21884-6-5	9299-21884-6-6
Sponsor Designation	207A-B7 Solar Pond Depth ≈ 4" 5-7-86	207A-B8 Solar Pond Depth ≈ 4" 5-7-86
Determination: pCi/L		
Gross Alpha, ± counting error*	80000 ± 6000	--
Gross Beta, ± counting error*	40000 ± 2000	--
Plutonium-239, ± counting error*	660 ± 50	--
Americium-241, ± counting error*	45 ± 14	--
Uranium-233 + 234, ± counting error*	14000 ± 1000	--
Uranium-238, ± counting error*	21000 ± 1000	--
Tritium, ± counting error*	--	930 ± 260

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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Radiochemistry
Supervisor

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July 17, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail Street
Denver, CO 80215

RE: 9299-21856-6
Date Samples Rec'd 5-1-86
Project 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21856-6-5	9299-21856-6-6
Sponsor Designation	207A-A7 Solar Pond Northwest 5-1-86	207A-A8 Solar Pond Northwest 5-1-86
Determination: pCi/L		
Gross Alpha, dissolved, ± counting error*	46000 ± 4000	--
Gross Beta, dissolved, ± counting error*	37000 ± 2000	--
Plutonium-239, dissolved, ± counting error*	84 ± 16	--
Americium-241, dissolved, ± counting error*	-2.2 ± 3.6	--
Uranium-233 + 234, dissolved, ± counting error*	17000 ± 1000	--
Uranium-238, dissolved, ± counting error*	22000 ± 1000	--
Tritium, total, ± counting error*	--	610 ± 270

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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July 17, 1986

Mr. Mark Selman
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Denver, CO 80215

RE: 9299-21870-8
Date Samples Rec'd 5-6-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21870-8-5	9299-21870-8-6	9299-21870-8-7	9299-21870-8-8
Sponsor Designation	207A-SA7 Solar Pond NW Corner 5-5-86	207A-SA8 Solar Pond NW Corner 5-5-86	207A-SA9 Solar Pond NW Corner 5-5-86	207A-SA10 Solar Pond NW Corner 5-5-86
Determination: pCi/g (dry)				
Gross Alpha, ± counting error*	14000 ± 1000	--	7400 ± 200	--
Gross Beta, ± counting error*	560 ± 50	--	160 ± 20	--
Plutonium-239, ± counting error*	3700 ± 100	--	1500 ± 100	--
Americium-241, ± counting error*	4400 ± 100	--	2800 ± 100	--
Uranium-233 + Uranium-234, ± counting error*	200 ± 20	--	570 ± 30	--
Uranium-238, ± counting error*	130 ± 10	--	280 ± 20	--
Tritium, ± counting error*, pCi/L	--	9300 ± 800	--	12000 ± 1000
Air Dry Loss, %	--	76.7	--	73.2

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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July 17, 1986

Mr. Mark Selman
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Denver, CO 80215

RE: 9299-21890-6
Date Samples Rec'd 5-8-86
Project 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21890-6-5	9299-21890-6-6
Sponsor Designation	207A-SB7 Solar Pond Center West 5-8-86	207A-SB8 Solar Pond Center West 5-8-86
Determination: pCi/g (dry)		
Gross Alpha, ± counting error*	4700 ± 200	--
Gross Beta, ± counting error*	190 ± 40	--
Plutonium-239, ± counting error*	3400 ± 100	--
Americium-241, ± counting error*	1400 ± 200	--
Uranium-233 + 234, ± counting error*	180 ± 20	--
Uranium-238, ± counting error*	210 ± 20	--
Tritium, ± counting error*, pCi/L	--	2400 ± 600
Air Dry Loss, %	--	78.3

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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July 21, 1986

Mr. Mark Selman
Roy F. Weston
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RE: 9299-21907-6
Date Samples Rec'd 5-12-86
Project 2029-13-03-01

CORRECTED REPORT

REPORT OF ANALYSIS

ALR Designation	9299-21907-6-5	9299-21907-6-6
Sponsor Designation	207A-SC7 Solar Pond SW Corner 5-12-86	207A-SC8 Solar Pond SW Corner 5-12-86
Determination: pCi/g (dry)		
Gross Alpha, ± counting error*	12000 ± 1000	--
Gross Beta, ± counting error*	1400 ± 100	--
Plutonium-239, ± counting error*	1700 ± 100	--
Americium-241, ± counting error*	3500 ± 100	--
Uranium-233 + 234, ± counting error*	120 ± 20	--
Uranium-238, ± counting error*	480 ± 30	--
Tritium, ± counting error*, pCi/L	--	1300 ± 500
Air Dry Loss, %	75.7	--

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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July 17, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail Street
Denver, CO 80215

RE: 9299-21907-6
Date Samples Rec'd 5-12-86
Project 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21907-6-5	9299-21907-6-6
Sponsor Designation	207A-SC7 Solar Pond SW Corner 5-12-86	207A-SC8 Solar Pond SW Corner 5-12-86
Determination: pCi/g (dry)		
Gross Alpha, ± counting error*	12000 ± 1000	--
Gross Beta, ± counting error*	1400 ± 100	--
Plutonium-239, ± counting error*	1000 ± 100	--
Americium-241, ± counting error*	2100 ± 100	--
Uranium-233 + 234, ± counting error*	71 ± 10	--
Uranium-238, ± counting error*	280 ± 20	--
Tritium, ± counting error*, pCi/L	--	1500 ± 600
Air Dry Loss, %	58.8	--

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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July 17, 1986

Mr. Mark Selman
Roy F. Weston
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Denver, CO 80215

RE: 9299-21943-11
Date Samples Rec'd 5-15-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21943-11-5	9299-21943-11-6	9299-21943-11-10	9299-21943-11-11
Sponsor Designation	207A-C7 Solar Pond Southwest 5-15-86	207A-C8 Solar Pond Southwest 5-15-86	207A-07 Solar Pond Southwest 5-15-86	207A-08 Solar Pond Southwest 5-15-86
Determination: pCi/L				
Gross Alpha, ± counting error*	63000 ± 6000	--	32 ± 38	--
Gross Beta, ± counting error*	35000 ± 2000	--	-2 ± 83	--
Plutonium-239, ± counting error*	56 ± 16	--	2.9 ± 6.3	--
Americium-241, ± counting error*	11 ± 7	--	0.2 ± 5.2	--
Uranium-233 + Uranium-234, ± counting error*	20000 ± 1000	--	-2 ± 23	--
Uranium-238, ± counting error*	28000 ± 1000	--	4 ± 19	--
Tritium, ± counting error*, pCi/L	--	640 ± 190	--	240 ± 180

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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July 2, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail Street
Denver, CO 80215

RE: 9299-21823-20
Date Samples Rec'd 4-28-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9299-21823-20-1 LA7 (ITPH) Sample A	9299-21823-20-2 LA8 (ITPH) Sample A	9299-21823-20-7 LB7 (ITPH) Sample B	9299-21823-20-8 LB8 (ITPH) Sample B	9299-21823-20-13 LC7 (ITPH) Sample C
Determination: pCi/L					
Gross Alpha, dissolved, ± counting error*	120 ± 40	--	120 ± 40	--	100 ± 40
Gross Beta, dissolved, ± counting error*	120 ± 40	--	75 ± 25	--	100 ± 30
Plutonium-239, dissolved, ± counting error*	0.16 ± 0.10	--	0.05 ± 0.08	--	0.06 ± 0.06
Americium-241, dissolved, ± counting error*	-0.01 ± 0.03	--	0.00 ± 0.04	--	0.02 ± 0.05
Uranium-233 + Uranium-234, dissolved, ± counting error*	66 ± 2	--	62 ± 2	--	66 ± 2
Uranium-238, dissolved, ± counting error*	44 ± 2	--	41 ± 2	--	40 ± 2
Tritium, total, ± counting error*	--	2700 ± 300	--	3400 ± 300	--

Mr. Mark Selman
Roy F. Weston

RE: 9299-21823-20
Date Samples Rec'd 4-28-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21823-20-14	9299-21823-20-19	9299-21823-20-20
Sponsor Designation	LC8 (ITPH) Sample C	L07 HPLC Distilled Water	L08 HPLC Distilled Water
Determination: pCi/L			
Gross Alpha, dissolved, ± counting error*	--	-1 ± 2	--
Gross Beta, dissolved, ± counting error*	--	-2 ± 4	--
Plutonium-239, dissolved, ± counting error*	--	0.01 ± 0.05	--
Americium-241, dissolved, ± counting error*	--	-0.01 ± 0.03	--
Uranium-233 + Uranium-234, dissolved, ± counting error*	--	0.05 ± 0.27	--
Uranium-238, dissolved, ± counting error*	--	-0.09 ± 0.24	--
Tritium, total, ± counting error*	3400 ± 300	--	40 ± 260

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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July 17, 1986

Mr. Mark Selman
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RE: 9299-21843-6
Date Samples Rec'd 4-30-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21843-6-2	9299-21843-6-4	9299-21843-6-6
Sponsor Designation	207B-B7 Solar Pond North (Central) 4-30-86	207B-C7 Solar Pond North (Central) 4-30-86	207B-07 Solar Pond North (Central) 4-30-86
Determination: pCi/L			
Gross Alpha, dissolved, ± counting error*	93 ± 60	74 ± 58	16 ± 41
Gross Beta, dissolved, ± counting error*	25 ± 89	100 ± 92	-21 ± 84
Plutonium-239, diss., ± counting error*	-0.02 ± 0.11	-0.03 ± 0.06	0.05 ± 0.07
Americium-241, diss., ± counting error*	0.08 ± 0.08	-0.02 ± 0.04	0.08 ± 0.22
Uranium-233 + 234, dissolved, ± counting error*	51 ± 2	53 ± 2	0.10 ± 0.24
Uranium-238, dissolved, ± counting error*	32 ± 1	33 ± 1	-0.10 ± 0.21

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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July 2, 1986

Mr. Mark Selman
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938 Quail Street
Denver, CO 80215

RE: 9299-21833-18
Date Samples Rec'd 4-29-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21833-18-5	9299-21833-18-6	9299-21833-18-10	9299-21833-18-14	9299-21833-18-18
Sponsor Designation	Solar Pond 207B-A7 North Northwest Corner 4-29-86	Solar Pond 207B-A8 North Northwest Corner 4-29-86	Solar Pond 207B-B8 North Central 4-29-86	Solar Pond 207B-C8 North Northeast 4-29-86	Solar Pond 207B-D8 Field Blank 4-29-86
Determination: pCi/L					
Gross Alpha, dissolved, ± counting error*	120 ± 50	--	--	--	--
Gross Beta, dissolved, ± counting error*	56 ± 32	--	--	--	--
Plutonium-239, dissolved, ± counting error*	0.01 ± 0.06	--	--	--	--
Americium-241, dissolved, ± counting error*	-0.02 ± 0.04	--	--	--	--
Uranium-233 + Uranium-234, dissolved, ± counting error*	50 ± 2	--	--	--	--
Uranium-238, dissolved, ± counting error*	31 ± 1	--	--	--	--
Tritium, total, ± counting error*	--	1200 ± 300	1200 ± 300	1300 ± 300	-40 ± 260

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

Bud Summers
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July 7, 1986

Mr. Mark Selman
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Denver, CO 80215

RE: 9299-21741-27
Date Samples Rec'd 4-15-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9299-21741-27-3 1B5 (BZ)	9299-21741-27-6 1C5 (BZ)	9299-21741-27-9 2B5 (BZ)	9299-21741-27-12 2C5 (BZ)	9299-21741-27-15 3B5 (BZ)
Determination: pCi/g (dry)					
Gross Alpha, ± counting error*	46 ± 15	18 ± 11	47 ± 15	36 ± 13	35 ± 13
Gross Beta, ± counting error*	34 ± 6	31 ± 6	40 ± 7	28 ± 5	30 ± 6
Plutonium-239, ± counting error*	0.01 ± 0.10	0.05 ± 0.21	0.07 ± 0.21	0.03 ± 0.21	0.09 ± 0.22
Americium-241, ± counting error*	0.28 ± 0.16	0.01 ± 0.07	0.02 ± 0.06	0.07 ± 0.10	0.00 ± 0.08
Uranium-233 + Uranium-234, ± counting error*	0.77 ± 0.17	0.67 ± 0.17	0.86 ± 0.17	0.67 ± 0.15	0.89 ± 0.19
Uranium-238, ± counting error*	0.66 ± 0.16	0.62 ± 0.17	0.92 ± 0.18	0.84 ± 0.17	0.75 ± 0.18
Tritium, ± counting error*, pCi/mL	-0.07 ± 0.22	0.13 ± 0.23	0.04 ± 0.23	0.08 ± 0.23	0.20 ± 0.23
Air Dry Loss, %	22.3	28.2	21.6	20.1	22.8

July 7, 1986

Mr. Mark Selman
Roy F. Weston

RE: 9299-21741-27
Date Samples Rec'd 4-15-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9299-21741-27-18 3C5 (BZ)	9299-21741-27-21 1D5 (BZ)	9299-21741-27-24 1E5 (BZ)	9299-21741-27-27 1F5 (BZ)
Determination: pCi/g (dry)				
Gross Alpha, ± counting error*	37 ± 14	52 ± 16	44 ± 15	21 ± 11
Gross Beta, ± counting error*	29 ± 6	40 ± 6	32 ± 6	29 ± 6
Plutonium-239, ± counting error*	0.05 ± 0.21	0.12 ± 0.21	0.07 ± 0.20	-0.08 ± 0.09
Americium-241, ± counting error*	-0.02 ± 0.03	0.01 ± 0.05	-0.02 ± 0.03	-0.02 ± 0.03
Uranium-233 + Uranium-234, ± counting error*	0.66 ± 0.16	1.1 ± 0.2	0.73 ± 0.17	0.59 ± 0.13
Uranium-238, ± counting error*	0.76 ± 0.18	1.2 ± 0.2	0.80 ± 0.18	0.61 ± 0.14
Tritium, ± counting error*, pCi/mL	0.28 ± 0.27	0.34 ± 0.23	0.34 ± 0.23	0.54 ± 0.24
Air Dry Loss, %	19.8	26.1	20.5	16.2

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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June 19, 1986

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RE: 9299-21732-9
Date Samples Rec'd 4-14-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21732-9-3	9299-21732-9-6	9299-21732-9-9
Sponsor Designation	1A5 (BZ) Composite 1 Surface Scrape	2A5 (BZ) Composite 2 Surface Scrape	3A5 (BZ) Composite 3 Surface Scrape
Determination: pCi/g (dry)			
Gross Alpha, ± counting error*	67 ± 17	71 ± 18	75 ± 18
Gross Beta, ± counting error*	55 ± 7	50 ± 7	56 ± 7
Plutonium-239, ± counting error*	0.10 ± 0.20	0.02 ± 0.10	0.02 ± 0.21
Americium-241, ± counting error*	-0.02 ± 0.03	-0.02 ± 0.03	0.00 ± 0.05
Uranium-233 + 234, ± counting error*	1.1 ± 0.2	1.2 ± 0.2	1.4 ± 0.2
Uranium-238, ± counting error*	0.89 ± 0.20	1.2 ± 0.2	1.2 ± 0.2
Tritium, ± counting error*, pCi/ml	0.09 ± 0.23	0.02 ± 0.22	-0.05 ± 0.22
Air Dry Loss, %	24.8	21.9	22.5

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96σ.

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June 26, 1986

Mr. Mark Selman
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RE: 9299-21884-6
Date Samples Rec'd 5-7-86
Project 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21884-6-1	9299-21884-6-3
Sponsor Designation	207A-B3 Solar Pond Depth ≈ 4" 5-7-86	207A-B5 Solar Pond Depth ≈ 4" 5-7-86
Determination: µg/L		
Aluminum, total	2640	--
Antimony, total	600U	--
Arsenic, total	150	--
Barium, total	200U	--
Beryllium, total	43	--
Cadmium, total	70	--
Calcium, total	[880]	--
Chromium, total	16700	--
Cobalt, total	200	--
Copper, total	1800	--
Iron, total	1600	--
Lead, total	50U	--
Magnesium, total	[1650]	--
Manganese, total	115	--
Mercury, total	0.2	--
Nickel, total	1900	--
Potassium, total	14,300,000	--
Selenium, total	50U	--
Silver, total	370	--
Sodium, total	42,900,000	--
Thallium, total	100U	--
Tin, total	13000	--
Vanadium, total	100	--
Zinc, total	780	--
Phenols	--	35

Cathy Cairns
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June 26, 1986

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RE: 9299-21856-6
Date Samples Rec'd 5-1-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21856-6-1	9299-21856-6-3
Sponsor Designation	207A-A3 Solar Pond Northwest 5-1-86	207A-A5 Solar Pond Northwest 5-1-86
Determination: µg/L		
Aluminum, total	2420	--
Antimony, total	600U	--
Arsenic, total	150	--
Barium, total	200U	--
Beryllium, total	27	--
Cadmium, total	100	--
Calcium, total	[990]	--
Chromium, total	16300	--
Cobalt, total	200	--
Copper, total	1610	--
Iron, total	8000	--
Lead, total	50U	--
Magnesium, total	[1540]	--
Manganese, total	105	--
Mercury, total	0.2U	--
Nickel, total	1900	--
Potassium, total	13,200,000	--
Selenium, total	50U	--
Silver, total	310	--
Sodium, total	36,300,000	--
Thallium, total	100U	--
Tin, total	7000	--
Vanadium, total	120	--
Zinc, total	620	--
Phenols	--	13

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June 26, 1986

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RE: 9299-21943-11
Date Samples Rec'd 5-15-86
Project 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21943-11-1	9299-21943-11-3
Sponsor Designation	207A-C3 Solar Pond Southwest 5-15-86	207A-C5 Solar Pond Southwest 5-15-86
Determination: µg/L		
Aluminum, total	2310	--
Antimony, total	600U	--
Arsenic, total	1000U	--
Barium, total	200U	--
Beryllium, total	39	--
Cadmium, total	150	--
Calcium, total	[770]	--
Chromium, total	13700	--
Cobalt, total	500	--
Copper, total	1750	--
Iron, total	1500	--
Lead, total	50U	--
Magnesium, total	[1540]	--
Manganese, total	95	--
Mercury, total	0.2U	--
Nickel, total	2000	--
Potassium, total	14,300,000	--
Selenium, total	50U	--
Silver, total	350	--
Sodium, total	38,500,000	--
Thallium, total	100U	--
Tin, total	13000	--
Vanadium, total	210	--
Zinc, total	690	--
Phenols	--	14

June 26, 1986

Mr. Mark Selman
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RE: 9299-21943-11
Date Samples Rec'd 5-15-86
Project 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21943-11-7	9299-21943-11-8
Sponsor Designation	207A-03 Solar Pond Southwest 5-15-86	207A-05 Solar Pond Southwest 5-15-86
Determination: µg/L		
Aluminum, total	200U	--
Antimony, total	60U	--
Arsenic, total	10U	--
Barium, total	200U	--
Beryllium, total	5U	--
Cadmium, total	5U	--
Calcium, total	[440]	--
Chromium, total	5U	--
Cobalt, total	20U	--
Copper, total	[7]	--
Iron, total	[90]	--
Lead, total	11	--
Magnesium, total	[99]	--
Manganese, total	5U	--
Mercury, total	0.2U	--
Nickel, total	20U	--
Potassium, total	[1430]	--
Selenium, total	5U	--
Silver, total	5U	--
Sodium, total	15400	--
Thallium, total	10U	--
Tin, total	40U	--
Vanadium, total	5U	--
Zinc, total	57	--
Phenols	--	2

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June 27, 1986

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RE: 9299-21870-8
Date Samples Rec'd 5-6-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21870-8-1	9299-21870-8-3
Sponsor Designation	207A-SA3 Solar Pond NW Corner 5-5-86	207A-SA5 Solar Pond NW Corner 5-5-86
Determination: mg/kg dry wt.		
Aluminum, total	11300	--
Antimony, total	250U	--
Arsenic, total	42U	--
Barium, total	833U	--
Beryllium, total	309	--
Cadmium, total	1110	--
Calcium, total	24100	--
Chromium, total	1010	--
Cobalt, total	83U	--
Copper, total	425	--
Iron, total	3590	--
Lead, total	65	--
Magnesium, total	20400	--
Manganese, total	153	--
Mercury, total	7.5	--
Nickel, total	124	--
Potassium, total	59000	--
Selenium, total	21U	--
Silver, total	153	--
Sodium, total	154000	--
Thallium, total	42U	--
Tin, total	167U	--
Vanadium, total	208U	--
Zinc, total	248	--
Phenols, total	--	1.7U

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RE: 9299-21890-6
Date Samples Rec'd 5-8-86
Project 2029-13-03-0001

REPORT OF ANALYSIS

ALR Designation	9299-21890-6-1	9299-21890-6-3
Sponsor Designation	207A-SB3 Solar Pond Center West 5-8-86	207A-SB5 Solar Pond Center West 5-8-86
Determination: mg/kg dry wt.		
Aluminum, total	11000	--
Antimony, total	273U	--
Arsenic, total	45U	--
Barium, total	909U	--
Beryllium, total	668	--
Cadmium, total	10500	--
Calcium, total	50000	--
Chromium, total	1500	--
Cobalt, total	91U	--
Copper, total	1590	--
Iron, total	5550	--
Lead, total	455	--
Magnesium, total	21000	--
Manganese, total	595	--
Mercury, total	25	--
Nickel, total	1320	--
Potassium, total	50000	--
Selenium, total	23U	--
Silver, total	191	--
Sodium, total	130000	--
Thallium, total	45U	--
Tin, total	182U	--
Vanadium, total	227U	--
Zinc, total	595	--
Phenols, total	--	1.8U

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June 30, 1986

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RE: 9299-21907-6
Date Samples Rec'd 5-12-86
Project 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21907-6-1	9299-21907-6-3
Sponsor Designation	207A-SC3 Solar Pond SW Corner 5-12-86	207A-SC5 Solar Pond SW Corner 5-12-86
Determination: mg/kg dry wt.		
Aluminum, total	11900	--
Antimony, total	333U	--
Arsenic, total	56U	--
Barium, total	1110U	--
Beryllium, total	1570	--
Cadmium, total	1220	--
Calcium, total	19600	--
Chromium, total	19700	--
Cobalt, total	111U	--
Copper, total	879	--
Iron, total	6900	--
Lead, total	142	--
Magnesium, total	6110	--
Manganese, total	178	--
Mercury, total	10	--
Nickel, total	162	--
Potassium, total	65300	--
Selenium, total	28U	--
Silver, total	237	--
Sodium, total	166000	--
Thallium, total	56U	--
Tin, total	222U	--
Vanadium, total	278U	--
Zinc, total	227	--
Phenols, total	--	3.3

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June 11, 1986

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RE: 9299-21823-20
Date Samples Rec'd 4-28-86
Project 2023-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21823-20-3	9299-21823-20-5	9299-21823-20-9
Sponsor Designation	LB3 (ITPH) Sample B	LB5 (ITPH) Sample B	LC3 (ITPH) Sample C
Determination: µg/L			
Aluminum, total	200U	--	200U
Antimony, total	60U	--	60U
Arsenic, total	10U	--	10U
Barium, total	200U	--	220
Beryllium, total	5U	--	5U
Cadmium, total	5U	--	5U
Calcium, total	308000	--	319000
Chromium, total	[9]	--	[7]
Cobalt, total	20U	--	20U
Copper, total	5U	--	5U
Iron, total	20U	--	20U
Lead, total	5U	--	5U
Magnesium, total	76800	--	77400
Manganese, total	[12]	--	[13]
Mercury, total	0.5	--	0.4
Nickel, total	20U	--	20U
Potassium, total	73700	--	71500
Selenium, total	11	--	12
Silver, total	12	--	10
Sodium, total	451000	--	462000
Thallium, total	10U	--	10U
Tin, total	400U	--	400U
Vanadium, total	50U	--	50U
Zinc, total	24	--	30
Phenols, total	--	10	--

June 11, 1986

Mr. Mark Selman
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RE: 9299-21823-20
Date Samples Rec'd 4-28-86
Project 2023-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21823-20-11	9299-21823-20-15	9299-21823-20-17
Sponsor Designation	LC5 (ITPH) Sample C	L03 HPLC Distilled Water	L05 HPLC Distilled Water
Determination: µg/L			
Aluminum, total	--	200U	--
Antimony, total	--	60U	--
Arsenic, total	--	10U	--
Barium, total	--	200U	--
Beryllium, total	--	5U	--
Cadmium, total	--	5U	--
Calcium, total	--	[220]	--
Chromium, total	--	5U	--
Cobalt, total	--	20U	--
Copper, total	--	5U	--
Iron, total	--	[80]	--
Lead, total	--	5U	--
Magnesium, total	--	[66]	--
Manganese, total	--	5U	--
Mercury, total	--	0.2U	--
Nickel, total	--	20U	--
Potassium, total	--	[220]	--
Selenium, total	--	5U	--
Silver, total	--	5U	--
Sodium, total	--	[440]	--
Thallium, total	--	10U	--
Tin, total	--	40U	--
Vanadium, total	--	50U	--
Zinc, total	--	58	--
Phenols, total	2U	--	2

Enda Hergenreder for CC.
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June 12, 1986

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RE: 9299-21843-6
Date Samples Rec'd 4-30-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21843-6-1	9299-21843-6-3	9299-21843-6-5
Sponsor Designation	207B-B3 Solar Pond North (Center) 4-30-86	207B-C3 Solar Pond North (Center) 4-30-86	207B-03 Solar Pond North (Center) 4-30-86
Determination: µg/L			
Aluminum, total	200U	200U	200U
Antimony, total	60U	60U	60U
Arsenic, total	10U	10U	10U
Barium, total	200U	220	200U
Beryllium, total	5U	5U	5U
Cadmium, total	5U	5U	5U
Calcium, total	187000	176000	[990]
Chromium, total	5U	[9]	5U
Cobalt, total	20U	20U	20U
Copper, total	[6]	5U	5U
Iron, total	20U	20U	[20]
Lead, total	5U	5U	5U
Magnesium, total	67500	66400	[407]
Manganese, total	5U	5U	5U
Mercury, total	0.2U	0.2U	0.2U
Nickel, total	[30]	20U	20U
Potassium, total	62700	60500	[110]
Selenium, total	9	9	5U
Silver, total	[5]	[7]	5U
Sodium, total	374000	363000	[330]
Thallium, total	10U	10U	10U
Tin, total	400U	400U	40U
Vanadium, total	50U	50U	50U
Zinc, total	5U	5U	[11]

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June 26, 1986

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RE: 9299-21833-18
Date Samples Rec'd 4-29-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21833-18-1	9299-21833-18-3	9299-21833-18-8
Sponsor Designation	Solar Pond 207B-A3 North Northwest Corner 4-29-86	Solar Pond 207B-A5 North Northwest Corner 4-29-86	Solar Pond 207B-B5 North Central 4-29-86
Determination: µg/L			
Aluminum, total	200U	--	--
Antimony, total	60U	--	--
Arsenic, total	10U	--	--
Barium, total	200U	--	--
Beryllium, total	5U	--	--
Cadmium, total	5U	--	--
Calcium, total	198000	--	--
Chromium, total	5U	--	--
Cobalt, total	20U	--	--
Copper, total	[14]	--	--
Iron, total	[90]	--	--
Lead, total	5U	--	--
Magnesium, total	72600	--	--
Manganese, total	15	--	--
Mercury, total	0.2U	--	--
Nickel, total	50	--	--
Potassium, total	56100	--	--
Selenium, total	9	--	--
Silver, total	5U	--	--
Sodium, total	451000	--	--
Thallium, total	10U	--	--
Tin, total	400U	--	--
Vanadium, total	50U	--	--
Zinc, total	22	--	--
Phenols	--	3	46

Mr. Mark Selman
Roy F. Weston

RE: 9299-21833-18
Date Samples Rec'd 4-29-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21833-18-12	9299-21833-18-16
Sponsor Designation	Solar Pond 207B-C5 North (Northeast) 4-29-86	Solar Pond 207B-05 Field Blank 4-29-86
Determination: µg/L		
Aluminum, total	--	--
Antimony, total	--	--
Arsenic, total	--	--
Barium, total	--	--
Beryllium, total	--	--
Cadmium, total	--	--
Calcium, total	--	--
Chromium, total	--	--
Cobalt, total	--	--
Copper, total	--	--
Iron, total	--	--
Lead, total	--	--
Magnesium, total	--	--
Manganese, total	--	--
Mercury, total	--	--
Nickel, total	--	--
Potassium, total	--	--
Selenium, total	--	--
Silver, total	--	--
Sodium, total	--	--
Thallium, total	--	--
Tin, total	--	--
Vanadium, total	--	--
Zinc, total	--	--
Phenols	3	4

Cathy Cairns

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May 30, 1986

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RE: 9299-21741-27
Date Samples Rec'd 4-15-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21741-27-1	9299-21741-27-4	9299-21741-27-7
Sponsor Designation	1B3 (BZ) Composite 1 0-6" depth	1C3 (BZ) Composite 1 6-12" depth	2B3 (BZ) Composite 2 0-6" depth
Determination: mg/kg, dry wt.			
Aluminum, total	8190	8640	6540
Antimony, total	38U	37U	38U
Arsenic, total	6.3U	10F	7.0
Barium, total	126U	123U	128U
Beryllium, total	3.2U	3.1U	3.2U
Cadmium, total	3.2U	3.1U	3.2U
Calcium, total	[1660]	[1100]	[1320]
Chromium, total	11	10	9.0
Cobalt, total	13U	[22]	[12]
Copper, total	[6.9]	[6.6]	[8.4]
Iron, total	9080	12400	9610
Lead, total	31	19	29
Magnesium, total	[1240]	[1030]	[997]
Manganese, total	274	293	247
Mercury, total	0.1U	0.1U	0.1U
Nickel, total	[13]	[16]	13U
Potassium, total	[1390]	[1100]	[1260]
Selenium, total	3.2U	3.1U	3.2U
Silver, total	3.2U	3.1U	3.2U
Sodium, total	63U	62U	64U
Thallium, total	6.3U	6.2U	6.4U
Tin, total	25U	25U	26U
Vanadium, total	32U	38	32U
Zinc, total	33	23	29
Phenols	0.3U	0.5	0.3U

Mr. Mark Selman
Roy F. Weston

RE: 9299-21741-27
Date Samples Rec'd 4-15-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21741-27-10	9299-21741-27-13	9299-21741-27-16
Sponsor Designation	2C3 (BZ) Composite 2 6-12" depth	3B3 (BZ) Composite 3 0-6" depth	3C3 (BZ) Composite 3 6-12" depth
Determination: mg/kg, dry wt.			
Aluminum, total	7640	6740	7200
Antimony, total	37U	38U	38U
Arsenic, total	6.1U	6.4	6.3U
Barium, total	122U	128U	125U
Beryllium, total	3.0U	3.2U	3.1U
Cadmium, total	3.0U	3.2U	3.1U
Calcium, total	[1440]	[1400]	[1020]
Chromium, total	9.6	5.7	5.6
Cobalt, total	12U	13U	25
Copper, total	[9.1]	[8.3]	[9.9]
Iron, total	10200	9580	10900
Lead, total	16	17	15
Magnesium, total	[1060]	[976]	[883]
Manganese, total	196	215	285
Mercury, total	0.1U	0.1U	0.1U
Nickel, total	[17]	[13]	13U
Potassium, total	[1250]	[1190]	[951]
Selenium, total	3.0U	3.2U	3.1U
Silver, total	3.0U	3.2U	3.1U
Sodium, total	61U	[68]	63U
Thallium, total	6.1U	6.4U	6.3U
Tin, total	24U	26U	25U
Vanadium, total	30U	32U	31U
Zinc, total	30	25	20
Phenols	0.2U	0.3U	0.3U

Accu-Labs Research, Inc.
11485 W 48th Avenue Wheat Ridge, Colorado 80033
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May 30, 1986

Mr. Mark Selman
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938 Quail Street
Denver, CO 80215

RE: 9299-21732-9
Date Samples Rec'd 4-14-86
Project 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21732-9-1	9299-21732-9-4	9299-21732-9-7
Sponsor Designation	1A3 (BZ) Composite 1 Surface Scrape	2A3 (BZ) Composite 2 Surface Scrape	3A3 (BZ) Composite 3 Surface Scrape
Determination: mg/kg, dry wt.			
Aluminum, total	8770	9140	9050
Antimony, total	40U	41U	41U
Arsenic, total	6.7U	6.8	6.8U
Barium, total	133U	135U	135U
Beryllium, total	3.3U	3.4U	3.4U
Cadmium, total	3.3U	3.4U	3.4U
Calcium, total	[1840]	[1930]	[1960]
Chromium, total	10	10	13
Cobalt, total	13U	14U	14U
Copper, total	[9.6]	[9.7]	[10]
Iron, total	11000	11400	12300
Lead, total	38	48	42
Magnesium, total	[1360]	[1490]	[1350]
Manganese, total	272	337	286
Mercury, total	0.1U	0.1U	0.1U
Nickel, total	13U	[13]	14U
Potassium, total	[1700]	[1860]	[1750]
Selenium, total	3.3U	3.4U	3.4U
Silver, total	3.3U	3.4U	3.4U
Sodium, total	67U	[217]	[140]
Thallium, total	6.7U	6.8U	6.8U
Tin, total	27U	27U	27U
Vanadium, total	33U	34U	34U
Zinc, total	41	49	44
Phenols	0.3U	0.3U	0.3U

Eyda Hergenreder for CC
Cathy Cairns
Project Manager

CC/dh dh

Accu-Labs Research, Inc.
11485 W 48th Avenue Wheat Ridge, Colorado 80033
(303) 423-2766

July 21, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail Street
Denver, CO 80215

RE: 9299-21884-6
Date Samples Rec'd 5-7-86
Project No. 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21884-6-2	9299-21884-6-4
Sponsor Designation	207A-B6 Solar Pond 207A	207A-B6 Solar Pond 207A
Reactivity, mg/L:		
Cyanide	--	19
Sulfide	--	*
Corrosivity-pH	--	9.9
Ignitability, °C	--	>100
Total Cyanide, mg/L	9.4	--
Hexavalent Chromium, mg/L	--	<0.01

*Not analyzed due to insufficient sample.

Michel A. Herzog
RCRA Analysis

MAH/dh

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11485 W. 48th Avenue Wheat Ridge, Colorado 80033
(303) 423-2766

July 21, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail Street
Denver, CO 80215

RE: 9299-21856-6
Date Samples Rec'd 5-1-86
Project No. 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21856-6-2	9299-21856-6-4
Sponsor Designation	207A-A4 Solar Pond 207A Northwest	207A-A6 Solar Pond 207A Northwest
Reactivity, mg/L:		
Cyanide	--	*
Sulfide	--	**
Corrosivity-pH	--	9.8
Ignitability, °C	--	>100
Total Cyanide, mg/L	11	--
Hexavalent Chromium, mg/L	--	<0.01

*Not analyzed due to insufficient sample.
**Not calculated due to interferences.

Michel A. Herzog
Soils and Overburden
Supervisor

MAH/dh
dh

23 1986

Accu-Labs Research, Inc.
11485 W. 48th Avenue Wheat Ridge, Colorado 80033
(303) 423-2766

July 23, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail Street
Denver, CO 80215

RE: 9299-21943-11
Date Samples Rec'd: 5-15-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9299-21943-11-2 207A-C4	9299-21943-11-4 207A-C6	9299-21943-11-9 207A-06
Determination: mg/L			
Reactivity:			
Cyanide	--	*	•
Sulfide	--	•	<10
Corrosivity-pH	--	9.8	6.6
Ignitability, °C	--	>100	>100
Total Cyanide	17	--	--
Hexavalent Chromium	--	0.02	<0.01

*Not analyzed due to insufficient sample.

Michel A. Herzog
RCRA Analysis

MAH/dh

Accu-Labs Research, Inc.
11485 W. 48th Avenue Wheat Ridge, Colorado 80033
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July 21, 1986

Mr. Mark Selman
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Denver, CO 80215

RE: 9299-21907-6
Date Samples Rec'd 5-12-86
Project No. 2029-13-03-01

REPORT OF ANALYSIS

ALR Designation	9299-21907-6-2	9299-21907-6-4
Sponsor Designation	207A-SC4 Solar Pond 207A SW Corner Sediment C-Composite	207A-SC6 Solar Pond 207A SW Corner Sediment C-Composite
RCRA EP Toxicity, mg/L:		
Arsenic	--	0.04
Barium	--	<0.2
Cadmium	--	4.5
Chromium	--	0.86
Lead	--	0.11
Mercury	--	0.001
Selenium	--	<0.005
Silver	--	<0.02
Reactivity, µg/g:		
Cyanide	--	6.3
Sulfide	--	*
Corrosivity-pH	--	9.0
Ignitability, °C	--	>100
Hexavalent Chromium, mg/L	--	0.01
Total Cyanide, µg/g	6.5	--

*Not calculated due to interferences.

Michel A. Herzog
RCRA Analysis

MAH/dh

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July 21, 1986

Mr. Mark Selman
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RE: 9299-21823-20
Date Samples Rec'd 4-28-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21823-20-4	9299-21823-20-6	9299-21823-20-10	9299-21823-20-12	9299-21823-20-16
Sponsor Designation	LB4 Interceptor Trench Pump House Sample B	LB6 Interceptor Trench Pump House Sample B	LC4 Interceptor Trench Pump House Sample C	LC6 Interceptor Trench Pump House Sample C	LD4 HPLC Distilled Water
Reactivity, mg/L:					
Cyanide	--	<0.05	--	<0.05	--
Sulfide	--	<10	--	<10	--
Corrosivity-pH	--	7.8	--	8.0	--
Ignitability, °C	--	>100	--	>100	--
Total Cyanide, mg/L	<0.05	--	<0.05	--	<0.05
Hexavalent Chromium, mg/L	--	<0.01	--	<0.01	--

23 1986

Mr. Mark Selman
Roy F. Weston

RE: 9299-21823-20
Date Samples Rec'd 4-28-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21823-20-18
Sponsor Designation	LB6-LC6-LD6
	HPLC Distilled Water
Reactivity, mg/L:	
Cyanide	<0.05
Sulfide	<10
Corrosivity-pH	6.7
Ignitability, °C	>100
Total Cyanide, mg/L	--
Hexavalent Chromium, mg/L	<0.01

MAH/dh

Michel A. Herzog
RCRA Analysis

Accu-Labs Research, Inc.
11485 W. 48th Avenue Wheat Ridge, Colorado 80033
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July 21, 1986

Mr. Mark Selman
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Denver, CO 80215

RE: 9299-21833-18
Date Samples Rec'd 4-29-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21833-18-2	9299-21833-18-4	9299-21833-18-7	9299-21833-18-9	9299-21833-18-11
Sponsor Designation	207B-A4 Solar Pond 207B N-NW Corner	207B-A6 Solar Pond 207B N-NW Corner	207B-B4 Solar Pond 207B North (Central)	207B-B6 Solar Pond 207B North (Central)	207B-C4 Solar Pond 207B North (Northeast)
Reactivity, mg/L:					
Cyanide	--	<0.05	--	<0.05	--
Sulfide	--	<10	--	<10	--
Corrosivity-pH	--	8.0	--	7.9	--
Ignitability, °C	--	>100	--	>100	--
Total Cyanide, mg/L	<0.05	--	<0.05	--	<0.05
Hexavalent Chromium, mg/L	--	<0.01	--	<0.01	--

23 1986

Mr. Mark Selman
Roy F. Weston

RE: 9299-21833-18
Date Samples Rec'd 4-29-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21833-18-13	9299-21833-18-15	9299-21833-18-17
Sponsor Designation	207B-C6 Solar Pond 207B North (Northeast)	207B-04 Solar Pond 207B Field Blank	207B-06 Solar Pond 207B Field Blank
Reactivity, mg/L:			
Cyanide	<0.05	--	<0.05
Sulfide	<10	--	<10
Corrosivity-pH	8.1	--	7.1
Ignitability, °C	>100	--	>100
Total Cyanide, mg/L	--	<0.05	--
Hexavalent Chromium, mg/L	<0.01	--	<0.01

Michel A. Herzog
RCRA Analysis

MAH/dh

Accu-Labs Research, Inc.
11485 W. 48th Avenue Wheat Ridge, Colorado 80033
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May 16, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail St.
Denver, CO 80215

RE: 9299-21732-9
Date Samples Rec'd 4-14-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9299-21732-9-1 1A3 (BZ) Composite 1 Surface Scrape	9299-21732-9-3 1A4 (BZ) Composite 1 Surface Scrape	9299-21732-9-4 2A3 (BZ) Composite 2 Surface Scrape	9299-21732-9-5 2A4 (BZ) Composite 2 Surface Scrape	9299-21732-9-7 3A3 (BZ) Composite 3 Surface Scrape
RCRA EP Toxicity, mg/L:					
Arsenic	--	<0.005	--	<0.005	--
Barium	--	<0.2	--	<0.2	--
Cadmium	--	<0.005	--	0.006	--
Chromium	--	<0.01	--	0.01	--
Lead	--	<0.05	--	<0.05	--
Mercury	--	0.001	--	<0.001	--
Selenium	--	<0.005	--	<0.005	--
Silver	--	<0.02	--	<0.02	--
Reactivity:					
Cyanide, µg/g	--	0.11	--	0.11	--
Sulfide, µg/g	--	<10	--	<10	--
Corrosivity-pH	--	5.7	--	5.6	--
Ignitability, °C	--	>100	--	>100	--
Hexavalent Chromium, mg/L	--	<0.01	--	<0.01	--
Total Cyanide, µg/g	0.17	--	0.16	--	0.10

May 16, 1986

Mr. Mark Selman
Roy F. Weston

RE: 9299-21732-9
Date Samples Rec'd 4-14-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21732-9-8
Sponsor Designation	3A4 (BZ) Composite 3 Surface Scrape
RCRA EP Toxicity, mg/L:	
Arsenic	<0.005
Barium	<0.2
Cadmium	0.005
Chromium	0.02
Lead	<0.05
Mercury	<0.001
Selenium	<0.005
Silver	<0.02
Reactivity:	
Cyanide, µg/g	0.12
Sulfide, µg/g	<10
Corrosivity-pH	5.6
Ignitability, °C	>100
Hexavalent Chromium, mg/L	<0.01
Total Cyanide, µg/g	--

These samples are scheduled to be disposed of 45 days after the date of this report.

Michel A. Herzog
RCRA Analysis

MAH/dh

Accu-Labs Research, Inc.
11485 W. 48th Avenue Wheat Ridge, Colorado 80033
(303) 423-2766

May 16, 1986

Mr. Mark Selman
Roy F. Weston
938 Quail St.
Denver, CO 80215

RE: 9299-21741-27
Date Samples Rec'd 4-15-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21741-27-1	9299-21741-27-2	9299-21741-27-4	9299-21741-27-5	9299-21741-27-7
Sponsor Designation	1B3 (BZ) Composite 1 0"-6"	1B4 (BZ) Composite 1 0"-6"	1C3 (BZ) Composite 1 6"-12"	1C4 (BZ) Composite 1 6"-12"	2B3 (BZ) Composite 2 0"-6"
RCRA EP Toxicity, mg/L:					
Arsenic	--	<0.005	--	<0.005	--
Barium	--	<0.2	--	<0.2	--
Cadmium	--	<0.005	--	<0.005	--
Chromium	--	<0.01	--	<0.01	--
Lead	--	<0.05	--	<0.05	--
Mercury	--	<0.001	--	<0.001	--
Selenium	--	<0.005	--	<0.005	--
Silver	--	<0.02	--	<0.02	--
Reactivity:					
Cyanide, µg/g	--	0.12	--	0.05	--
Sulfide, µg/g	--	<10	--	<10	--
Corrosivity-pH	--	5.7	--	5.7	--
Ignitability, °C	--	>100	--	>100	--
Hexavalent Chromium, mg/L	--	<0.01	--	<0.01	--
Total Cyanide, µg/g	0.10	--	0.05	--	0.08

May 16, 1986

Mr. Mark Selman
Roy F. Weston

RE: 9299-21741-27
Date Samples Rec'd 4-15-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21741-27-8	9299-21741-27-10	9299-21741-27-11	9299-21741-27-13	9299-21741-27-14
Sponsor Designation	2B4 (BZ) Composite 2 0"-6"	2C3 (BZ) Composite 2 6"-12"	2C4 (BZ) Composite 2 6"-12"	3B3 (BZ) Composite 3 0"-6"	3B4 (BZ) Composite 3 0"-6"
RCRA EP Toxicity, mg/L:					
Arsenic	<0.005	--	<0.005	--	<0.005
Barium	<0.2	--	<0.2	--	<0.2
Cadmium	<0.005	--	<0.005	--	0.005
Chromium	<0.01	--	<0.01	--	<0.01
Lead	<0.05	--	<0.05	--	<0.05
Mercury	<0.001	--	<0.001	--	<0.001
Selenium	<0.005	--	<0.005	--	<0.005
Silver	<0.02	--	<0.02	--	<0.02
Reactivity:					
Cyanide, µg/g	0.08	--	<0.05	--	0.06
Sulfide, µg/g	<10	--	<10	--	<10
Corrosivity-pH	5.7	--	5.5	--	5.7
Ignitability, °C	>100	--	>100	--	>100
Hexavalent Chromium, mg/L	<0.01	--	0.01	--	0.06
Total Cyanide, µg/g	--	0.05	--	0.09	--

May 16, 1986

Mr. Mark Selman
Roy F. Weston

RE: 9299-21741-27
Date Samples Rec'd 4-15-86
Project No. 2029-13-03

REPORT OF ANALYSIS

ALR Designation	9299-21741-27-16	9299-21741-27-17	9299-21741-27-19	9299-21741-27-20	9299-21741-27-22
Sponsor Designation	3C3 (BZ) Composite 3 6"-12"	3C4 (BZ) Composite 3 6"-12"	1D3 Composite 1 Surface Scrape	1D4 Composite 1 Surface Scrape	1E3 Composite 1 0"-6" Core
RCRA EP Toxicity, mg/L:					
Arsenic	--	<0.005	--	<0.005	--
Barium	--	<0.2	--	<0.2	--
Cadmium	--	<0.005	--	<0.005	--
Chromium	--	<0.01	--	<0.01	--
Lead	--	<0.05	--	<0.05	--
Mercury	--	<0.001	--	<0.001	--
Selenium	--	<0.005	--	<0.005	--
Silver	--	<0.02	--	<0.02	--
Reactivity:					
Cyanide, µg/g	--	<0.05	--	0.13	--
Sulfide, µg/g	--	<10	--	<10	--
Corrosivity-pH	--	5.7	--	5.9	--
Ignitability, °C	--	>100	--	>100	--
Hexavalent Chromium, mg/L	--	0.02	--	0.02	--
Total Cyanide, µg/g	<0.05	--	0.13	--	0.07

WESTON

SEP 29 1986

VOA ORGANIC ANALYTICAL DATA PACKAGE FOR ROCKY FLATS

DATE RECEIVED: August 21, 1986

SAMPLE DESCRIPTION	WESTON ID R.F.W. NUMBER	DATE COLLECTED	VOA ANALYSIS
ITPH-LAI	8608-682-0070	8/19/86	9/01/86
ITPH-SAI	8608-682-0080	8/19/86	9/01/86
ITPH-LB1	8608-682-0240	8/19/86	9/01/86
ITPH-LC1	8608-682-0250	8/19/86	9/01/86
ITPH-SB1	8608-682-0260	8/19/86	9/01/86

WESTON ANALYTICS
GC/MS DATA SUMMARY
VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8608-682- Client: ROCKY FLATS

Sample Information	Cust ID:	ITPH-LAI	LAB DUP	MS	ITPH-SAI	ITPH-LBI	ITPH-LCI
	RFW#:	0070	0070	0070	0080	0240	0250
	Matrix:	Water	Water	Water	Water	Water	Water
	D.F.:	1	1	1	1	1	1
	Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane		1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride		1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane		1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride		4 U	4 U	4 U	4 U	4 U	4 U
Acetone		2 U	2 U	2 U	2.5	2 U	2 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane		1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene		1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		1.2	1 U	89 %	6.9	1.4	1 U
1,2-Dichloroethane		1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone		1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane		1 U	1 U	1 U	1 U	3.1	4.8
Carbon Tetrachloride		1 U	1 U	1 U	1 U	1.6	2.1
Bromodichloromethane		1 U	1 U	69 %	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene		1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene		3.7	2.2	2.9	1 U	2.5	2.4
Dibromochloromethane		2 U	2 U	97 %	2 U	2 U	2 U
1,1,2-Trichloroethane		1 U	1 U	1 U	1 U	1 U	1 U
Benzene		1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene		1 U	1 U	1 U	1 U	1 U	1 U
2-Chloroethylvinylether		2 U	2 U	2 U	2 U	2 U	2 U
Bromoform		4 U	4 U	4 U	4 U	4 U	4 U
4-Methyl-2-pentanone		1 U	1 U	1 U	1 U	1 U	1 U

RFW Batch Number: 8608-682- Client: ROCKY FLATS

Cust ID:	ITPH-LAI	LAB DUP	MS	ITPH-SAI	ITPH-LBI	ITPH-LCI
RFW#:	0070	0070	0070	0080	0240	0250
	fl	fl	fl	fl	fl	fl
Tetrachloroethene.....	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane.....	1 U	1 U	1 U	1 U	1 U	1 U
Toluene.....	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene.....	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene.....	1 U	1 U	1 U	1 U	1 U	1 U
Styrene.....	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylenes.....	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene.....	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene.....	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlenzenes.....	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane.....	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane.....	1 U	1 U	1 U	1 U	1 U	1 U

U=Analyzed, not detected. B=Present in blank. NRP=Not Reported
J=Present at less than detection limit. NR=Not requested.

WESTON ANALYTICS
GC/MS DATA SUMMARY
VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8608-682- Client: ROCKY FLATS

Sample Information						
Cust ID:	ITPH-SB1	BLANK	BS			
RFW#:	0260	BLANK	BS			
Matrix:	Water	Water	Water			
D.F.:	1	1	1			
Units:	ug/l	ug/l	ug/l			
	fl	fl	fl	fl	fl	f
Chloromethane	1 U	1 U	1 U			
Bromomethane	1 U	1 U	1 U			
Vinyl Chloride	1 U	1 U	1 U			
Chloroethane	1 U	1 U	1 U			
Methylene Chloride	4 U	4 U	4 U			
Acetone	2.2	2 U	2 U			
Carbon Disulfide	1 U	1 U	1 U			
1,1-Dichloroethene	1 U	1 U	1 U			
1,1-Dichloroethane	1 U	1 U	1 U			
Trans-1,2-Dichloroethene	1 U	1 U	1 U			
Chloroform	1 U	1 U	1 U			
1,2-Dichloroethane	1 U	1 U	1 U			
2-Butanone	1 U	1 U	1 U			
1,1,1-Trichloroethane	1 U	1 U	1 U			
Carbon Tetrachloride	29	1 U	1 U			
Bromodichloromethane	1 U	1 U	1 U			
1,2-Dichloropropane	1 U	1 U	1 U			
Trans-1,3-Dichloropropene	1 U	1 U	1 U			
Trichloroethene	1 U	1 U	1 U			
Dibromochloromethane	2 U	2 U	2 U			
1,1,2-Trichloroethane	1 U	1 U	1 U			
Benzene	1 U	1 U	113 %			
cis-1,3-Dichloropropene	1 U	1 U	1 U			
2-Chloroethylvinylether	2 U	2 U	2 U			
Bromoform	4 U	4 U	4 U			
4-Methyl-2-pentanone	1 U	1 U	1 U			

RFW Batch Number: 8608-682- Client: ROCKY FLATS

Cust ID:	ITPH-SB1	BLANK	BS			
RFW#:	0260	BLANK	BS			
	fl	fl	fl	fl	fl	f
Tetrachloroethene	1 U	1 U	1 U			
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U			
Toluene	1 U	1 U	1 U			
Chlorobenzene	1 U	1 U	1 U			
Ethylbenzene	1 U	1 U	1 U			
Styrene	1 U	1 U	1 U			
Total Xylenes	1 U	1 U	114 %			
1,2-Dichlorobenzene	1 U	1 U	1 U			
1,3-Dichlorobenzene	1 U	1 U	1 U			
1,4-Dichlenzenes	1 U	1 U	1 U			
Trichlorofluoromethane	1 U	1 U	1 U			
Dichlorodifluoromethane	1 U	1 U	1 U			

U=Analyzed, not detected. B=Present in blank. NRP=Not Reported
J=Present at less than detection limit. NR=Not requested.