N83447.AR.000027
NAS FORT WORTH
5090.3a

DRAFT FINAL INSTALLATION RESTORATION REMEDIAL INVESTIGATION FEASIBILITY STUDY STAGE 2 VOLUME 3 OF 9 NAS FORT WORTH TX
4/1/1989
RADIAN CORPORATION

File: 17G
A.F.

NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 33

File: 17A-10
D.B.

35

INSTALLATION RESTORATION PROGRAM
RI/FS STAGE 2

CARSWELL AFB, TEXAS

RADIAN CORPORATION
8501 MO-PAC BOULEVARD
P. O. BOX 201088
AUSTIN, TEXAS 78720-1088

APRIL 1989

FINAL DRAFT (9/87 - 9/88)
VOLUME 3: APPENDIX F-1
ANALYTICAL DATA, WORK ORDERS 01151-02099

PREPARED FOR:

HEADQUARTERS STRATEGIC AIR COMMAND
(HQ SAC/DE)
OFFUTT AIR FORCE BASE, NEBRASKA 68113-5001

UNITED STATES AIR FORCE
OCCUPATIONAL & ENVIRONMENTAL HEALTH LABORATORY
TECHNICAL SERVICES DIVISION (USAFOEHL/TS)
BROOKS AIR FORCE BASE, TEXAS 78235-5501

20th Anniversary
RADIAN CORPORATION
8501 Mo-Pac Blvd.
P.O. Box 201088
Austin, TX 78720-1088
(512)454-4797

INSTALLATION RESTORATION PROGRAM

RI/FS STAGE 2

DRAFT FINAL
VOLUME 3: APPENDIX F1 - ANALYTICAL DATA
WORK ORDERS 01151-02099

FOR

CARSWELL AFB, TEXAS

HEADQUARTERS STRATEGIC AIR COMMAND
(HQ SAC/DE)
OFFUTT AIR FORCE BASE, NEBRASKA 68113-5001

APRIL 1989

PREPARED BY

RADIAN CORPORATION
8501 MO-PAC BOULEVARD
P. O. BOX 201088
AUSTIN, TEXAS 78720-1088

USAF CONTRACT NO. F33615-87-D-4023, DELIVERY ORDER NO. 0004
RADIAN CONTRACT NO. 227-005-04

USAFOEHL TECHNICAL PROGRAM MANAGER

KARL W. RATZLAFF

USAF OCCUPATIONAL & ENVIRONMENTAL HEALTH LABORATORY (USAFOEHL)
TECHNICAL SERVICES DIVISION (TS)
BROOKS AIR FORCE BASE, TEXAS 78235-5501

APPENDIX F-1

Analytical Data,
Work Orders 01151-02099

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
10A	03-22	N	S803014-02A	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10A	03-22	N	S803014-02C	604	Phenols	E604
10A	03-22	N	S803014-02B	608	Organochlorine Pesticides	E608
10A	03-22	N	8803031-07C	AS_G	Metals	E206.2
10A	03-22	N	8803031-07A	CL_T	Chloride	E325.3
10A	03-22	N	8803029-09A	EPA601	Purgeable Halocarbons	E601
10A	03-22	N	8803029-09C	EPA602	Purgeable Aromatics	E602
10A	03-22	N	8803031-07A	F_SIE	Fluoride	E340.2
10A	03-22	N	8803031-07D	HC_IR	Petroleum Hydrocarbons	E418.1
10A	03-22	N	8803031-07C	HG_C	Metals	E245.1
10A	03-22	N	8803031-07C	ICP200	Metal Screen (ICP)	E200.7
10A	03-22	N	8803031-07E	NO2NO3	Nitrate	E353.1
10A	03-22	N	8803031-07D	ONG_IR	Oil & Grease	E413.2
10A	03-22	N	8803031-07A	OPO4	Orthophosphate	E365.4
10A	03-22	N	8803031-07C	PB_G	Metals	E239.2
10A	03-22	N	8803031-07C	SE_G	Metals	E270.2
10A	03-22	N	8803031-07A	SO4_N	Sulfate	E375.4
10A	03-22	N	8803031-07A	TDS	Total Dissolved Solids	E160.1
10A	03-22	N	8803029-09C	XYLENE	Purgeable Aromatics	E602
10A	04-50	N	S804076-01G	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10A	04-50	N	S804076-01A	604	Phenols	E604
10A	04-50	N	S804076-01E	608	Organochlorine Pesticides	E608
10A	04-50	N	8804064-03E	AS_G	Metals	E206.2
10A	04-50	N	8804064-03A	CL_T	Chloride	E325.3
10A	04-50	N	8804062-03A	EPA601	Purgeable Halocarbons	E601
10A	04-50	N	8804148-03A	EPA601	Purgeable Halocarbons	E601
10A	04-50	N	8804062-03C	EPA602	Purgeable Aromatics	E602
10A	04-50	N	8804064-03A	F_SIE	Fluoride	E340.2
10A	04-50	N	8804064-03E	HG_C	Metals	E245.1
10A	04-50	N	8804064-03E	ICP200	Metal Screen (ICP)	E200.7
10A	04-50	N	8804064-03B	NO2NO3	Nitrate	E353.1
10A	04-50	N	8804064-03D	ONG_IR	Oil & Grease	E413.2
10A	04-50	N	8804064-03A	OPO4	Orthophosphate	E365.4
10A	04-50	N	8804064-03E	PB_G	Metals	E239.2
10A	04-50	N	8804064-03E	SE_G	Metals	E270.2
10A	04-50	N	8804064-03A	SO4_N	Sulfate	E375.4
10A	04-50	N	8804064-03A	TDS	Total Dissolved Solids	E160.1
10A	04-50	N	8804062-03C	XYLENE	Purgeable Aromatics	E602
10A	04-51	TB	8804062-04A	EPA601	Purgeable Halocarbons	E601
10A	04-51	TB	8804062-04C	EPA602	Purgeable Aromatics	E602
10A	04-51	TB	8804148-04A	EPA602	Purgeable Aromatics	E602
10A	04-51	TB	8804148-04A	XYLENE	Purgeable Aromatics	E602
10A	04-51	TB	8804062-04C	XYLENE	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
10A	04-52	FB	8804062-05A	EPA601	Purgeable Halocarbons	E601
10A	04-52	FB	8804062-05C	EPA602	Purgeable Aromatics	E602
10A	04-52	FB	8804148-05A	EPA602	Purgeable Aromatics	E602
10A	04-52	FB	8804062-05C	XYLENE	Purgeable Aromatics	E602
10A	04-52	FB	8804148-05A	XYLENE	Purgeable Aromatics	E602
10B	03-28	N	S803019-01C	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10B	03-28	N	S803019-01A	604	Phenols	E604
10B	03-28	N	S803019-01B	608	Organochlorine Pesticides	E608
10B	03-28	N	8803035-06C	AS_G	Metals	E206.2
10B	03-28	N	8803035-06A	CL_T	Chloride	E325.3
10B	03-28	N	8803036-15A	EPA601	Purgeable Halocarbons	E601
10B	03-28	N	8803036-06A	EPA601	Purgeable Halocarbons	E601
10B	03-28	N	8803036-06C	EPA602	Purgeable Aromatics	E602
10B	03-28	N	8803035-06A	F_SIE	Fluoride	E340.2
10B	03-28	N	8803035-06D	HC_IR	Petroleum Hydrocarbons	E418.1
10B	03-28	N	8803035-06C	HG_C	Metals	E245.1
10B	03-28	N	8803035-06C	ICP200	Metal Screen (ICP)	E200.7
10B	03-28	N	8803035-06B	NO2NO3	Nitrate	E353.1
10B	03-28	N	8803035-06E	ONG_IR	Oil & Grease	E413.2
10B	03-28	N	8803035-06A	OPO4	Orthophosphate	E365.4
10B	03-28	N	8803035-06C	PB_G	Metals	E239.2
10B	03-28	N	8803035-06C	SE_G	Metals	E270.2
10B	03-28	N	8803035-06A	SO4_N	Sulfate	E375.4
10B	03-28	N	8803035-06A	TDS	Total Dissolved Solids	E160.1
10B	03-28	N	8803036-06C	XYLENE	Purgeable Aromatics	E602
10B	04-60	N	S804131-01C	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10B	04-60	N	S804083-01A	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10B	04-60	N	S804131-01A	604	Phenols	E604
10B	04-60	N	S804083-01B	604	Phenols	E604
10B	04-60	N	S804131-01E	608	Organochlorine Pesticides	E608
10B	04-60	N	8804074-01D	AS_G	Metals	E206.2
10B	04-60	N	8804074-01A	CL_T	Chloride	E325.3
10B	04-60	N	8804075-02A	EPA601	Purgeable Halocarbons	E601
10B	04-60	N	8804145-02A	EPA601	Purgeable Halocarbons	E601
10B	04-60	N	8804075-02C	EPA602	Purgeable Aromatics	E602
10B	04-60	N	8804074-01A	F_SIE	Fluoride	E340.2
10B	04-60	N	8804077-05A	HC_IR	Petroleum Hydrocarbons	E418.1
10B	04-60	N	8804074-01D	HG_C	Metals	E245.1
10B	04-60	N	8804074-01D	ICP200	Metal Screen (ICP)	E200.7
10B	04-60	N	8804074-01B	NO2NO3	Nitrate	E353.1
10B	04-60	N	8804074-01C	ONG_IR	Oil & Grease	E413.2
10B	04-60	N	8804074-01A	OPO4	Orthophosphate	E365.4
10B	04-60	N	8804074-01D	PB_G	Metals	E239.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
10B	04-60	N	8804074-01D	SE_G	Metals	E270.2
10B	04-60	N	8804074-01A	SO4_N	Sulfate	E375.4
10B	04-60	N	8804074-01A	TDS	Total Dissolved Solids	E160.1
10B	04-60	N	8804075-02C	XYLENE	Purgeable Aromatics	E602
10B	04-61	ER	S804083-02A	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10B	04-61	ER	S804131-02A	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10B	04-61	ER	S804083-02D	604	Phenols	E604
10B	04-61	ER	S804083-02B	608	Organochlorine Pesticides	E608
10B	04-61	ER	8804074-02D	AS_G	Metals	E206.2
10B	04-61	ER	8804074-02A	CL_T	Chloride	E325.3
10B	04-61	ER	8804145-03A	EPA601	Purgeable Halocarbons	E601
10B	04-61	ER	8804075-03A	EPA601	Purgeable Halocarbons	E601
10B	04-61	ER	8804075-03C	EPA602	Purgeable Aromatics	E602
10B	04-61	ER	8804145-03A	EPA602	Purgeable Aromatics	E602
10B	04-61	ER	8804074-02A	F_SIE	Fluoride	E340.2
10B	04-61	ER	8804077-02A	HC_IR	Petroleum Hydrocarbons	E418.1
10B	04-61	ER	8804074-02D	HG_C	Metals	E245.1
10B	04-61	ER	8804074-02D	ICP200	Metal Screen (ICP)	E200.7
10B	04-61	ER	8804074-02B	NO2NO3	Nitrate	E353.1
10B	04-61	ER	8804074-02C	ONG_IR	Oil & Grease	E413.2
10B	04-61	ER	8804074-02A	OPO4	Orthophosphate	E365.4
10B	04-61	ER	8804074-02D	PB_G	Metals	E239.2
10B	04-61	ER	8804074-02D	SE_G	Metals	E270.2
10B	04-61	ER	8804074-02A	SO4_N	Sulfate	E375.4
10B	04-61	ER	8804074-02A	TDS	Total Dissolved Solids	E160.1
10B	04-61	ER	8804145-03A	XYLENE	Purgeable Aromatics	E602
10B	04-61	ER	8804075-03C	XYLENE	Purgeable Aromatics	E602
10C	03-29	N	S803019-02C	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10C	03-29	N	S803019-02A	604	Phenols	E604
10C	03-29	N	S803019-02B	608	Organochlorine Pesticides	E608
10C	03-29	N	8803035-07C	AS_G	Metals	E206.2
10C	03-29	N	8803035-07A	CL_T	Chloride	E325.3
10C	03-29	N	8803036-07A	EPA601	Purgeable Halocarbons	E601
10C	03-29	N	8803036-07C	EPA602	Purgeable Aromatics	E602
10C	03-29	N	8803035-07A	F_SIE	Fluoride	E340.2
10C	03-29	N	8803035-07D	HC_IR	Petroleum Hydrocarbons	E418.1
10C	03-29	N	8803035-07C	HG_C	Metals	E245.1
10C	03-29	N	8803035-07C	ICP200	Metal Screen (ICP)	E200.7
10C	03-29	N	8803035-07B	NO2NO3	Nitrate	E353.1
10C	03-29	N	8803035-07E	ONG_IR	Oil & Grease	E413.2
10C	03-29	N	8803035-07A	OPO4	Orthophosphate	E365.4
10C	03-29	N	8803035-07C	PB_G	Metals	E239.2
10C	03-29	N	8803035-07C	SE_G	Metals	E270.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
10C	03-29	N	8803035-07A	SO4_N	Sulfate	E375.4
10C	03-29	N	8803035-07A	TDS	Total Dissolved Solids	E160.1
10C	03-29	N	8803036-07C	XYLENE	Purgeable Aromatics	E602
10C	04-62	N	S804083-03A	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10C	04-62	N	S804083-03E	604	Phenols	E604
10C	04-62	N	S804083-03C	608	Organochlorine Pesticides	E608
10C	04-62	N	8804074-03D	AS_G	Metals	E206.2
10C	04-62	N	8804074-03A	CL_T	Chloride	E325.3
10C	04-62	N	8804075-04A	EPA601	Purgeable Halocarbons	E601
10C	04-62	N	8804145-04A	EPA601	Purgeable Halocarbons	E601
10C	04-62	N	8804075-04C	EPA602	Purgeable Aromatics	E602
10C	04-62	N	8804074-03A	F_SIE	Fluoride	E340.2
10C	04-62	N	8804077-03A	HC_IR	Petroleum Hydrocarbons	E418.1
10C	04-62	N	8804074-03D	HG_C	Metals	E245.1
10C	04-62	N	8804074-03D	ICP200	Metal Screen (ICP)	E200.7
10C	04-62	N	8804074-03B	NO2NO3	Nitrate	E353.1
10C	04-62	N	8804074-03C	ONG_IR	Oil & Grease	E413.2
10C	04-62	N	8804074-03A	OPO4	Orthophosphate	E365.4
10C	04-62	N	8804074-03D	PB_G	Metals	E239.2
10C	04-62	N	8804074-03D	SE_G	Metals	E270.2
10C	04-62	N	8804074-03A	SO4_N	Sulfate	E375.4
10C	04-62	N	8804074-03A	TDS	Total Dissolved Solids	E160.1
10C	04-62	N	8804075-04C	XYLENE	Purgeable Aromatics	E602
10C	04-63	D	S804083-04A	509B	Chlorinated Phenoxy Acid Herbicides	A509B
10C	04-63	D	S804083-04E	604	Phenols	E604
10C	04-63	D	S804083-04C	608	Organochlorine Pesticides	E608
10C	04-63	D	8804074-04C	AS_G	Metals	E206.2
10C	04-63	D	8804074-04A	CL_T	Chloride	E325.3
10C	04-63	D	8804075-05A	EPA601	Purgeable Halocarbons	E601
10C	04-63	D	8804145-05A	EPA601	Purgeable Halocarbons	E601
10C	04-63	D	8804075-05C	EPA602	Purgeable Aromatics	E602
10C	04-63	D	8804074-04A	F_SIE	Fluoride	E340.2
10C	04-63	D	8804077-04A	HC_IR	Petroleum Hydrocarbons	E418.1
10C	04-63	D	8804074-04C	HG_C	Metals	E245.1
10C	04-63	D	8804074-04C	ICP200	Metal Screen (ICP)	E200.7
10C	04-63	D	8804074-04B	NO2NO3	Nitrate	E353.1
10C	04-63	D	8804077-04B	ONG_IR	Oil & Grease	E413.2
10C	04-63	D	8804074-04A	OPO4	Orthophosphate	E365.4
10C	04-63	D	8804074-04C	PB_G	Metals	E239.2
10C	04-63	D	8804074-04C	SE_G	Metals	E270.2
10C	04-63	D	8804074-04A	SO4_N	Sulfate	E375.4
10C	04-63	D	8804074-04A	TDS	Total Dissolved Solids	E160.1
10C	04-63	D	8804075-05C	XYLENE	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
10D	Car8-01-016	SN	S802002-01A	CL8240	Volatile Organic Compounds	SW8240
10D	Car8-01-017	SN	S802002-02A	CL8270	Semivolatile Organic Compounds	SW8270
10D	Car8-01-018	SN	8802004-01A	AS_G	Metals	E206.2
10D	Car8-01-018	SN	8802004-01A	HG_C	Metals	E245.1
10D	Car8-01-018	SN	8802004-01A	ICP200	Metal Screen (ICP)	E200.7
10D	Car8-01-018	SN	8802004-01A	ONG_IR	Oil & Grease	E413.2
10D	Car8-01-018	SN	8802004-01A	PB_G	Metals	E239.2
10D	Car8-01-018	SN	8802004-01A	SE_G	Metals	E270.2
10D	Car8-02-068	SN	8802115-01A	HC_IR	Petroleum Hydrocarbons	E418.1
10D	Car8-02-069	SN	S802069-01A	8080	Organochlorine Pesticides and PCBs	SW8080
10E	Car8-01-019	SN	S802002-03A	CL8240	Volatile Organic Compounds	SW8240
10E	Car8-01-020	SN	8802004-02A	AS_G	Metals	E206.2
10E	Car8-01-020	SN	8802004-02A	HG_C	Metals	E245.1
10E	Car8-01-020	SN	8802004-02A	ICP200	Metal Screen (ICP)	E200.7
10E	Car8-01-020	SN	8802004-02A	ONG_IR	Oil & Grease	E413.2
10E	Car8-01-020	SN	8802004-02A	PB_G	Metals	E239.2
10E	Car8-01-020	SN	8802004-02A	SE_G	Metals	E270.2
10E	Car8-01-021	SN	S802002-04A	CL8270	Semivolatile Organic Compounds	SW8270
10E	Car8-01-022	SN	S802002-05A	CL8240	Volatile Organic Compounds	SW8240
10E	Car8-01-023	SN	8802004-03A	AS_G	Metals	E206.2
10E	Car8-01-023	SN	8802004-03A	HG_C	Metals	E245.1
10E	Car8-01-023	SN	8802004-03A	ICP200	Metal Screen (ICP)	E200.7
10E	Car8-01-023	SN	8802004-03A	ONG_IR	Oil & Grease	E413.2
10E	Car8-01-023	SN	8802004-03A	PB_G	Metals	E239.2
10E	Car8-01-023	SN	8802004-03A	SE_G	Metals	E270.2
10E	Car8-01-024	SN	S802002-06A	CL8270	Semivolatile Organic Compounds	SW8270
10E	Car8-01-025	FB	S802002-07A	CL8240	Volatile Organic Compounds	SW8240
10E	Car8-02-070	SN	8802115-02A	HC_IR	Petroleum Hydrocarbons	E418.1
10E	Car8-02-071	SN	S802069-02A	8080	Organochlorine Pesticides and PCBs	SW8080
10E	Car8-02-072	SN	8802115-03A	HC_IR	Petroleum Hydrocarbons	E418.1
10E	Car8-02-073	SN	S802069-03A	8080	Organochlorine Pesticides and PCBs	SW8080
10F	Car8-01-026	SD	S802002-08A	CL8240	Volatile Organic Compounds	SW8240
10F	Car8-01-027	SD	S802002-09A	CL8240	Volatile Organic Compounds	SW8240
10F	Car8-01-028	SD	S802002-10A	CL8270	Semivolatile Organic Compounds	SW8270
10F	Car8-01-029	SD	S802002-11A	CL8270	Semivolatile Organic Compounds	SW8270
10F	Car8-01-030	SD	8802004-04A	AS_G	Metals	E206.2
10F	Car8-01-030	SD	8802004-04A	HG_C	Metals	E245.1
10F	Car8-01-030	SD	8802004-04A	ICP200	Metal Screen (ICP)	E200.7
10F	Car8-01-030	SD	8802004-04A	ONG_IR	Oil & Grease	E413.2
10F	Car8-01-030	SD	8802004-04A	PB_G	Metals	E239.2
10F	Car8-01-030	SD	8802004-04A	SE_G	Metals	E270.2
10F	Car8-01-031	SD	8802004-05A	AS_G	Metals	E206.2
10F	Car8-01-031	SD	8802004-05A	HG_C	Metals	E245.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
10F	Car8-01-031	SD	8802004-05A	ICP200	Metal Screen (ICP)	E200.7
10F	Car8-01-031	SD	8802004-05A	ONG_IR	Oil & Grease	E413.2
10F	Car8-01-031	SD	8802004-05A	PB_G	Metals	E239.2
10F	Car8-01-031	SD	8802004-05A	SE_G	Metals	E270.2
10F	Car8-02-074	SD	8802115-04A	HC_IR	Petroleum Hydrocarbons	E418.1
10F	Car8-02-075	SD	8802115-05A	HC_IR	Petroleum Hydrocarbons	E418.1
10F	Car8-02-076	SD	S802069-04A	8080	Organochlorine Pesticides and PCBs	SW8080
10F	Car8-02-077	SD	S802069-05A	8080	Organochlorine Pesticides and PCBs	SW8080
11A	02-151	N	8802136-02G	AS_G	Metals	E206.2
11A	02-151	N	S802090-02A	CL_625	Extractable Priority Pollutants	E625
11A	02-151	N	8802136-02I	CL_T	Chloride	E325.3
11A	02-151	N	8802136-02A	EPA601	Purgeable Halocarbons	E601
11A	02-151	N	8802136-02C	EPA602	Purgeable Aromatics	E602
11A	02-151	N	8802136-07A	EPA602	Purgeable Aromatics	E602
11A	02-151	N	8802136-02I	F_SIE	Fluoride	E340.2
11A	02-151	N	8802136-02H	HC_IR	Petroleum Hydrocarbons	E418.1
11A	02-151	N	8802136-02G	HG_C	Metals	E245.1
11A	02-151	N	8802136-02G	ICP200	Metal Screen (ICP)	E200.7
11A	02-151	N	8802136-02F	NO3	Nitrate	E353.2
11A	02-151	N	8802136-02I	OPO4	Orthophosphate	E365.4
11A	02-151	N	8802136-02G	PB_G	Metals	E239.2
11A	02-151	N	8802136-02G	SE_G	Metals	E270.2
11A	02-151	N	8802136-02I	SO4_N	Sulfate	E375.4
11A	02-151	N	8802136-02I	TDS	Total Dissolved Solids	E160.1
11A	02-151	N	8802136-07A	XYLENE	Purgeable Aromatics	E602
11A	02-151	N	8802136-02C	XYLENE	Purgeable Aromatics	E602
11A	04-02	N	8804014-02G	AS_G	Metals	E206.2
11A	04-02	N	S804017-02A	CL_625	Extractable Priority Pollutants	E625
11A	04-02	N	8804014-02F	CL_T	Chloride	E325.3
11A	04-02	N	8804014-02A	EPA601	Purgeable Halocarbons	E601
11A	04-02	N	8804014-02C	EPA602	Purgeable Aromatics	E602
11A	04-02	N	8804014-06A	EPA602	Purgeable Aromatics	E602
11A	04-02	N	8804014-02F	F_SIE	Fluoride	E340.2
11A	04-02	N	8804014-02H	HC_IR	Petroleum Hydrocarbons	E418.1
11A	04-02	N	8804014-02G	HG_C	Metals	E245.1
11A	04-02	N	8804014-02G	ICP200	Metal Screen (ICP)	E200.7
11A	04-02	N	8804014-02E	NO3	Nitrate	E353.2
11A	04-02	N	8804014-02F	OPO4	Orthophosphate	E365.4
11A	04-02	N	8804014-02G	SE_G	Metals	E270.2
11A	04-02	N	8804014-02F	SO4_N	Sulfate	E375.4
11A	04-02	N	8804014-02F	TDS	Total Dissolved Solids	E160.1
11A	04-02	N	8804014-06A	XYLENE	Purgeable Aromatics	E602
11A	04-02	N	8804014-02C	XYLENE	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
11B	02-152	N	8802136-03G	AS_G	Metals	E206.2
11B	02-152	N	8802136-03I	CL_T	Chloride	E325.3
11B	02-152	N	8802136-03A	EPA601	Purgeable Halocarbons	E601
11B	02-152	N	8802136-03C	EPA602	Purgeable Aromatics	E602
11B	02-152	N	8802136-03I	F_SIE	Fluoride	E340.2
11B	02-152	N	8802136-03H	HC_IR	Petroleum Hydrocarbons	E418.1
11B	02-152	N	8802136-03G	HG_C	Metals	E245.1
11B	02-152	N	8802136-03G	ICP200	Metal Screen (ICP)	E200.7
11B	02-152	N	8802136-03F	NO3	Nitrate	E353.2
11B	02-152	N	8802136-03I	OPO4	Orthophosphate	E365.4
11B	02-152	N	8802136-03G	PB_G	Metals	E239.2
11B	02-152	N	8802136-03G	SE_G	Metals	E270.2
11B	02-152	N	8802136-03I	SO4_N	Sulfate	E375.4
11B	02-152	N	8802136-03I	TDS	Total Dissolved Solids	E160.1
11B	02-152	N	8802136-03C	XYLENE	Purgeable Aromatics	E602
11B	04-03	N	8804014-03G	AS_G	Metals	E206.2
11B	04-03	N	8804014-03F	CL_T	Chloride	E325.3
11B	04-03	N	8804014-03A	EPA601	Purgeable Halocarbons	E601
11B	04-03	N	8804014-07A	EPA602	Purgeable Aromatics	E602
11B	04-03	N	8804014-03C	EPA602	Purgeable Aromatics	E602
11B	04-03	N	8804014-03F	F_SIE	Fluoride	E340.2
11B	04-03	N	8804014-03H	HC_IR	Petroleum Hydrocarbons	E418.1
11B	04-03	N	8804014-03G	HG_C	Metals	E245.1
11B	04-03	N	8804014-03G	ICP200	Metal Screen (ICP)	E200.7
11B	04-03	N	8804014-03E	NO3	Nitrate	E353.2
11B	04-03	N	8804014-03F	OPO4	Orthophosphate	E365.4
11B	04-03	N	8804014-03G	SE_G	Metals	E270.2
11B	04-03	N	8804014-03F	SO4_N	Sulfate	E375.4
11B	04-03	N	8804014-03F	TDS	Total Dissolved Solids	E160.1
11B	04-03	N	8804014-03C	XYLENE	Purgeable Aromatics	E602
11B	04-03	N	8804014-07A	XYLENE	Purgeable Aromatics	E602
12A	02-154	N	8802191-01D	AS_G	Metals	E206.2
12A	02-154	N	S802099-01A	CL_625	Extractable Priority Pollutants	E625
12A	02-154	N	8802191-01E	CL_T	Chloride	E325.3
12A	02-154	N	8802190-01A	EPA601	Purgeable Halocarbons	E601
12A	02-154	N	8802190-01C	EPA602	Purgeable Aromatics	E602
12A	02-154	N	8802191-01E	F_SIE	Fluoride	E340.2
12A	02-154	N	8802191-01C	HC_IR	Petroleum Hydrocarbons	E418.1
12A	02-154	N	8802191-01D	HG_C	Metals	E245.1
12A	02-154	N	8802191-01D	ICP200	Metal Screen (ICP)	E200.7
12A	02-154	N	8802191-01B	NO2NO3	Nitrate	E353.1
12A	02-154	N	8802191-01E	OPO4	Orthophosphate	E365.4
12A	02-154	N	8802191-01D	PB_G	Metals	E239.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
12A	02-154	N	8802191-01D	SE_G	Metals	E270.2
12A	02-154	N	8802191-01E	SO4_N	Sulfate	E375.4
12A	02-154	N	8802191-01E	TDS	Total Dissolved Solids	E160.1
12A	02-154	N	8802190-01C	XYLENE	Purgeable Aromatics	E602
12A	04-04	N	8804016-02D	AS_G	Metals	E206.2
12A	04-04	N	8804016-02B	CL_T	Chloride	E325.3
12A	04-04	N	8804017-10A	EPA601	Purgeable Halocarbons	E601
12A	04-04	N	8804017-01A	EPA601	Purgeable Halocarbons	E601
12A	04-04	N	8804017-01C	EPA602	Purgeable Aromatics	E602
12A	04-04	N	8804017-10A	EPA602	Purgeable Aromatics	E602
12A	04-04	N	8804016-02B	F_SIE	Fluoride	E340.2
12A	04-04	N	8804016-02A	HC_IR	Petroleum Hydrocarbons	E418.1
12A	04-04	N	8804016-02D	HG_C	Metals	E245.1
12A	04-04	N	8804016-02D	ICP200	Metal Screen (ICP)	E200.7
12A	04-04	N	8804016-02C	NO3	Nitrate	E353.2
12A	04-04	N	8804016-02B	OPO4	Orthophosphate	E365.4
12A	04-04	N	8804016-02D	SE_G	Metals	E270.2
12A	04-04	N	8804016-02B	SO4_N	Sulfate	E375.4
12A	04-04	N	8804016-02B	TDS	Total Dissolved Solids	E160.1
12A	04-04	N	8804017-01C	XYLENE	Purgeable Aromatics	E602
12A	04-04	N	8804017-10A	XYLENE	Purgeable Aromatics	E602
12B	03-24	N	8803035-02C	AS_G	Metals	E206.2
12B	03-24	N	8803035-02A	CL_T	Chloride	E325.3
12B	03-24	N	8803036-02A	EPA601	Purgeable Halocarbons	E601
12B	03-24	N	8803036-11A	EPA601	Purgeable Halocarbons	E601
12B	03-24	N	8803036-02C	EPA602	Purgeable Aromatics	E602
12B	03-24	N	8803035-02A	F_SIE	Fluoride	E340.2
12B	03-24	N	8803035-02D	HC_IR	Petroleum Hydrocarbons	E418.1
12B	03-24	N	8803035-02C	HG_C	Metals	E245.1
12B	03-24	N	8803035-02C	ICP200	Metal Screen (ICP)	E200.7
12B	03-24	N	8803035-02B	NO2NO3	Nitrate	E353.1
12B	03-24	N	8803035-02A	OPO4	Orthophosphate	E365.4
12B	03-24	N	8803035-02C	PB_G	Metals	E239.2
12B	03-24	N	8803035-02C	SE_G	Metals	E270.2
12B	03-24	N	8803035-02A	SO4_N	Sulfate	E375.4
12B	03-24	N	8803035-02A	TDS	Total Dissolved Solids	E160.1
12B	03-24	N	8803036-02C	XYLENE	Purgeable Aromatics	E602
12B	03-25	D	8803035-03C	AS_G	Metals	E206.2
12B	03-25	D	8803035-03A	CL_T	Chloride	E325.3
12B	03-25	D	8803036-03A	EPA601	Purgeable Halocarbons	E601
12B	03-25	D	8803036-12A	EPA601	Purgeable Halocarbons	E601
12B	03-25	D	8803036-03C	EPA602	Purgeable Aromatics	E602
12B	03-25	D	8803035-03A	F_SIE	Fluoride	E340.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
12B	03-25	D	8803035-03D	HC_IR	Petroleum Hydrocarbons	E418.1
12B	03-25	D	8803035-03C	HG_C	Metals	E245.1
12B	03-25	D	8803035-03C	ICP200	Metal Screen (ICP)	E200.7
12B	03-25	D	8803035-03B	NO2NO3	Nitrate	E353.1
12B	03-25	D	8803035-03A	OPO4	Orthophosphate	E365.4
12B	03-25	D	8803035-03C	PB_G	Metals	E239.2
12B	03-25	D	8803035-03C	SE_G	Metals	E270.2
12B	03-25	D	8803035-03A	SO4_N	Sulfate	E375.4
12B	03-25	D	8803035-03A	TDS	Total Dissolved Solids	E160.1
12B	03-25	D	8803036-03C	XYLENE	Purgeable Aromatics	E602
12B	04-57	N	8804064-06D	AS_G	Metals	E206.2
12B	04-57	N	8804064-06A	CL_T	Chloride	E325.3
12B	04-57	N	8804148-09A	EPA601	Purgeable Halocarbons	E601
12B	04-57	N	8804062-10A	EPA601	Purgeable Halocarbons	E601
12B	04-57	N	8804062-10C	EPA602	Purgeable Aromatics	E602
12B	04-57	N	8804064-06A	F_SIE	Fluoride	E340.2
12B	04-57	N	8804064-06C	HC_IR	Petroleum Hydrocarbons	E418.1
12B	04-57	N	8804064-06D	HG_C	Metals	E245.1
12B	04-57	N	8804064-06D	ICP200	Metal Screen (ICP)	E200.7
12B	04-57	N	8804064-06B	NO2NO3	Nitrate	E353.1
12B	04-57	N	8804064-06A	OPO4	Orthophosphate	E365.4
12B	04-57	N	8804064-06D	SE_G	Metals	E270.2
12B	04-57	N	8804064-06A	SO4_N	Sulfate	E375.4
12B	04-57	N	8804064-06A	TDS	Total Dissolved Solids	E160.1
12B	04-57	N	8804062-10C	XYLENE	Purgeable Aromatics	E602
12C	03-26	N	8803035-04C	AS_G	Metals	E206.2
12C	03-26	N	8803035-04A	CL_T	Chloride	E325.3
12C	03-26	N	8803036-04A	EPA601	Purgeable Halocarbons	E601
12C	03-26	N	8803036-04C	EPA602	Purgeable Aromatics	E602
12C	03-26	N	8803036-13A	EPA602	Purgeable Aromatics	E602
12C	03-26	N	8803035-04A	F_SIE	Fluoride	E340.2
12C	03-26	N	8803035-04D	HC_IR	Petroleum Hydrocarbons	E418.1
12C	03-26	N	8803035-04C	HG_C	Metals	E245.1
12C	03-26	N	8803035-04C	ICP200	Metal Screen (ICP)	E200.7
12C	03-26	N	8803035-04B	NO2NO3	Nitrate	E353.1
12C	03-26	N	8803035-04A	OPO4	Orthophosphate	E365.4
12C	03-26	N	8803035-04C	PB_G	Metals	E239.2
12C	03-26	N	8803035-04C	SE_G	Metals	E270.2
12C	03-26	N	8803035-04A	SO4_N	Sulfate	E375.4
12C	03-26	N	8803035-04A	TDS	Total Dissolved Solids	E160.1
12C	03-26	N	8803036-04C	XYLENE	Purgeable Aromatics	E602
12C	03-26	N	8803036-13A	XYLENE	Purgeable Aromatics	E602
12C	04-59	N	8804064-08D	AS_G	Metals	E206.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
12C	04-59	N	S804076-02A	CL_625	Extractable Priority Pollutants	E625
12C	04-59	N	8804064-08A	CL_T	Chloride	E325.3
12C	04-59	N	8804063-02A	EPA601	Purgeable Halocarbons	E601
12C	04-59	N	8804063-05A	EPA601	Purgeable Halocarbons	E601
12C	04-59	N	8804063-02C	EPA602	Purgeable Aromatics	E602
12C	04-59	N	8804063-05A	EPA602	Purgeable Aromatics	E602
12C	04-59	N	8804064-08A	F_SIE	Fluoride	E340.2
12C	04-59	N	8804064-08C	HC_IR	Petroleum Hydrocarbons	E418.1
12C	04-59	N	8804064-08D	HG_C	Metals	E245.1
12C	04-59	N	8804064-08D	ICP200	Metal Screen (ICP)	E200.7
12C	04-59	N	8804064-08B	NO2NO3	Nitrate	E353.1
12C	04-59	N	8804064-08A	OPO4	Orthophosphate	E365.4
12C	04-59	N	8804064-08D	SE_G	Metals	E270.2
12C	04-59	N	8804064-08A	SO4_N	Sulfate	E375.4
12C	04-59	N	8804064-08A	TDS	Total Dissolved Solids	E160.1
12C	04-59	N	8804063-05A	XYLENE	Purgeable Aromatics	E602
12C	04-59	N	8804063-02C	XYLENE	Purgeable Aromatics	E602
12D	03-23	N	8803035-01C	AS_G	Metals	E206.2
12D	03-23	N	8803035-01A	CL_T	Chloride	E325.3
12D	03-23	N	8803036-01A	EPA601	Purgeable Halocarbons	E601
12D	03-23	N	8803036-10A	EPA602	Purgeable Aromatics	E602
12D	03-23	N	8803036-01C	EPA602	Purgeable Aromatics	E602
12D	03-23	N	8803035-01A	F_SIE	Fluoride	E340.2
12D	03-23	N	8803035-01D	HC_IR	Petroleum Hydrocarbons	E418.1
12D	03-23	N	8803035-01C	HG_C	Metals	E245.1
12D	03-23	N	8803035-01C	ICP200	Metal Screen (ICP)	E200.7
12D	03-23	N	8803035-01B	NO2NO3	Nitrate	E353.1
12D	03-23	N	8803035-01A	OPO4	Orthophosphate	E365.4
12D	03-23	N	8803035-01C	PB_G	Metals	E239.2
12D	03-23	N	8803035-01C	SE_G	Metals	E270.2
12D	03-23	N	8803035-01A	SO4_N	Sulfate	E375.4
12D	03-23	N	8803035-01A	TDS	Total Dissolved Solids	E160.1
12D	03-23	N	8803036-01C	XYLENE	Purgeable Aromatics	E602
12D	03-23	N	8803036-10A	XYLENE	Purgeable Aromatics	E602
12D	04-53	N	8804064-04D	AS_G	Metals	E206.2
12D	04-53	N	8804064-04A	CL_T	Chloride	E325.3
12D	04-53	N	8804148-06A	EPA601	Purgeable Halocarbons	E601
12D	04-53	N	8804062-06A	EPA601	Purgeable Halocarbons	E601
12D	04-53	N	8804062-06C	EPA602	Purgeable Aromatics	E602
12D	04-53	N	8804148-06A	EPA602	Purgeable Aromatics	E602
12D	04-53	N	8804064-04A	F_SIE	Fluoride	E340.2
12D	04-53	N	8804064-04C	HC_IR	Petroleum Hydrocarbons	E418.1
12D	04-53	N	8804064-04D	HG_C	Metals	E245.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
12D	04-53	N	8804064-04D	ICP200	Metal Screen (ICP)	E200.7
12D	04-53	N	8804064-04B	NO2NO3	Nitrate	E353.1
12D	04-53	N	8804064-04A	OPO4	Orthophosphate	E365.4
12D	04-53	N	8804064-04D	SE_G	Metals	E270.2
12D	04-53	N	8804064-04A	SO4_N	Sulfate	E375.4
12D	04-53	N	8804064-04A	TDS	Total Dissolved Solids	E160.1
12D	04-53	N	8804062-06C	XYLENE	Purgeable Aromatics	E602
12D	04-53	N	8804148-06A	XYLENE	Purgeable Aromatics	E602
12D	04-54	TB	8804062-07A	EPA601	Purgeable Halocarbons	E601
12D	04-54	TB	8804062-07C	EPA602	Purgeable Aromatics	E602
12D	04-54	TB	8804062-07C	XYLENE	Purgeable Aromatics	E602
12D	04-55	FB	8804062-08A	EPA601	Purgeable Halocarbons	E601
12D	04-55	FB	8804062-08C	EPA602	Purgeable Aromatics	E602
12D	04-55	FB	8804148-07A	EPA602	Purgeable Aromatics	E602
12D	04-55	FB	8804148-07A	XYLENE	Purgeable Aromatics	E602
12D	04-55	FB	8804062-08C	XYLENE	Purgeable Aromatics	E602
12D	Car8-02-080	SN	S802070-03A	CL8240	Volatile Organic Compounds	SW8240
12D	Car8-02-081	SN	S802070-04A	CL8270	Semivolatile Organic Compounds	SW8270
12D	Car8-02-081	SN	S802070-04A	DRY_WT	Soil Moisture	UNK
12D	Car8-02-082	SN	8802115-06A	HC_IR	Petroleum Hydrocarbons	E418.1
12D	Car8-02-082	SN	8802115-06A	ICP200	Metal Screen (ICP)	E200.7
12D	Car8-02-083	SN	S802070-01A	CL8240	Volatile Organic Compounds	SW8240
12D	Car8-02-084	SN	S802070-02A	CL8270	Semivolatile Organic Compounds	SW8270
12D	Car8-02-084	SN	S802070-02A	DRY_WT	Soil Moisture	UNK
12D	Car8-02-085	SN	8802115-07A	HC_IR	Petroleum Hydrocarbons	E418.1
12D	Car8-02-085	SN	8802115-07A	ICP200	Metal Screen (ICP)	E200.7
12E	03-27	N	8803035-05C	AS_G	Metals	E206.2
12E	03-27	N	8803035-05A	CL_T	Chloride	E325.3
12E	03-27	N	8803036-05A	EPA601	Purgeable Halocarbons	E601
12E	03-27	N	8803036-14A	EPA602	Purgeable Aromatics	E602
12E	03-27	N	8803036-05C	EPA602	Purgeable Aromatics	E602
12E	03-27	N	8803035-05A	F_SIE	Fluoride	E340.2
12E	03-27	N	8803035-05D	HC_IR	Petroleum Hydrocarbons	E418.1
12E	03-27	N	8803035-05C	HG_C	Metals	E245.1
12E	03-27	N	8803035-05C	ICP200	Metal Screen (ICP)	E200.7
12E	03-27	N	8803035-05B	NO2NO3	Nitrate	E353.1
12E	03-27	N	8803035-05A	OPO4	Orthophosphate	E365.4
12E	03-27	N	8803035-05C	PB_G	Metals	E239.2
12E	03-27	N	8803035-05C	SE_G	Metals	E270.2
12E	03-27	N	8803035-05A	SO4_N	Sulfate	E375.4
12E	03-27	N	8803035-05A	TDS	Total Dissolved Solids	E160.1
12E	03-27	N	8803036-14A	XYLENE	Purgeable Aromatics	E602
12E	03-27	N	8803036-05C	XYLENE	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
12E	04-56	N	8804064-05D	AS_G	Metals	E206.2
12E	04-56	N	8804064-05A	CL_T	Chloride	E325.3
12E	04-56	N	8804148-08A	EPA601	Purgeable Halocarbons	E601
12E	04-56	N	8804062-09A	EPA601	Purgeable Halocarbons	E601
12E	04-56	N	8804148-08A	EPA602	Purgeable Aromatics	E602
12E	04-56	N	8804062-09C	EPA602	Purgeable Aromatics	E602
12E	04-56	N	8804064-05A	F_SIE	Fluoride	E340.2
12E	04-56	N	8804064-05C	HC_IR	Petroleum Hydrocarbons	E418.1
12E	04-56	N	8804064-05D	HG_C	Metals	E245.1
12E	04-56	N	8804064-05D	ICP200	Metal Screen (ICP)	E200.7
12E	04-56	N	8804064-05B	NO2NO3	Nitrate	E353.1
12E	04-56	N	8804064-05A	OPO4	Orthophosphate	E365.4
12E	04-56	N	8804064-05D	SE_G	Metals	E270.2
12E	04-56	N	8804064-05A	SO4_N	Sulfate	E375.4
12E	04-56	N	8804064-05A	TDS	Total Dissolved Solids	E160.1
12E	04-56	N	8804062-09C	XYLENE	Purgeable Aromatics	E602
12E	04-56	N	8804148-08A	XYLENE	Purgeable Aromatics	E602
12E	04-58	ER	8804064-07D	AS_G	Metals	E206.2
12E	04-58	ER	8804064-07A	CL_T	Chloride	E325.3
12E	04-58	ER	8804063-04A	EPA601	Purgeable Halocarbons	E601
12E	04-58	ER	8804063-01A	EPA601	Purgeable Halocarbons	E601
12E	04-58	ER	8804063-01C	EPA602	Purgeable Aromatics	E602
12E	04-58	ER	8804063-04A	EPA602	Purgeable Aromatics	E602
12E	04-58	ER	8804064-07A	F_SIE	Fluoride	E340.2
12E	04-58	ER	8804064-07C	HC_IR	Petroleum Hydrocarbons	E418.1
12E	04-58	ER	8804064-07D	HG_C	Metals	E245.1
12E	04-58	ER	8804064-07D	ICP200	Metal Screen (ICP)	E200.7
12E	04-58	ER	8804064-07B	NO2NO3	Nitrate	E353.1
12E	04-58	ER	8804064-07A	OPO4	Orthophosphate	E365.4
12E	04-58	ER	8804064-07D	SE_G	Metals	E270.2
12E	04-58	ER	8804064-07A	SO4_N	Sulfate	E375.4
12E	04-58	ER	8804064-07A	TDS	Total Dissolved Solids	E160.1
12E	04-58	ER	8804063-01C	XYLENE	Purgeable Aromatics	E602
12E	04-58	ER	8804063-04A	XYLENE	Purgeable Aromatics	E602
12E	Car8-02-092	SN	S802084-05A	CL8240	Volatile Organic Compounds	SW8240
12E	Car8-02-093	SN	8802130-03A	HC_IR	Petroleum Hydrocarbons	E418.1
12E	Car8-02-093	SN	8802130-03A	ICP200	Metal Screen (ICP)	E200.7
12E	Car8-02-094	SN	S802084-06A	CL8270	Semivolatile Organic Compounds	SW8270
12E	Car8-02-094	SN	S802084-06A	DRY_WT	Soil Moisture	UNK
12E	Car8-02-095	SN	S802084-07A	CL8240	Volatile Organic Compounds	SW8240
12E	Car8-02-096	SN	8802130-04A	HC_IR	Petroleum Hydrocarbons	E418.1
12E	Car8-02-096	SN	8802130-04A	ICP200	Metal Screen (ICP)	E200.7
12E	Car8-02-097	SN	S802084-08A	CL8270	Semivolatile Organic Compounds	SW8270

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
12E	Car8-02-097	SN	S802084-08A	DRY_WT	Soil Moisture	UNK
12E	Car8-02-098	SN	S802084-09A	CL8240	Volatile Organic Compounds	SW8240
12E	Car8-02-099	SN	8802130-05A	HC_IR	Petroleum Hydrocarbons	E418.1
12E	Car8-02-099	SN	8802130-05A	ICP200	Metal Screen (ICP)	E200.7
12E	Car8-02-100	SN	S802084-10A	CL8270	Semivolatile Organic Compounds	SW8270
12E	Car8-02-100	SN	S802084-10A	DRY_WT	Soil Moisture	UNK
12E	Car8-02-101	FB	S802084-11A	CL8240	Volatile Organic Compounds	SW8240
12G	Car8-02-086	SN	S802084-01A	CL8240	Volatile Organic Compounds	SW8240
12G	Car8-02-087	SN	S802084-02A	CL8270	Semivolatile Organic Compounds	SW8270
12G	Car8-02-087	SN	S802084-02A	DRY_WT	Soil Moisture	UNK
12G	Car8-02-088	SN	8802130-01A	HC_IR	Petroleum Hydrocarbons	E418.1
12G	Car8-02-088	SN	8802130-01A	ICP200	Metal Screen (ICP)	E200.7
12H	Car8-02-102	SN	S802084-12A	CL8240	Volatile Organic Compounds	SW8240
12H	Car8-02-103	SN	S802084-13A	CL8270	Semivolatile Organic Compounds	SW8270
12H	Car8-02-103	SN	S802084-13A	DRY_WT	Soil Moisture	UNK
12H	Car8-02-104	SN	8802130-06A	HC_IR	Petroleum Hydrocarbons	E418.1
12H	Car8-02-104	SN	8802130-06A	ICP200	Metal Screen (ICP)	E200.7
12H	Car8-02-105	SD	S802084-14A	CL8240	Volatile Organic Compounds	SW8240
12H	Car8-02-106	SD	S802084-15A	CL8270	Semivolatile Organic Compounds	SW8270
12H	Car8-02-106	SD	S802084-15A	DRY_WT	Soil Moisture	UNK
12H	Car8-02-107	SD	8802130-07A	HC_IR	Petroleum Hydrocarbons	E418.1
12H	Car8-02-107	SD	8802130-07A	ICP200	Metal Screen (ICP)	E200.7
12H	Car8-02-108	SD	S802084-16A	CL8240	Volatile Organic Compounds	SW8240
12H	Car8-02-109	SD	S802084-17A	CL8270	Semivolatile Organic Compounds	SW8270
12H	Car8-02-109	SD	S802084-17A	DRY_WT	Soil Moisture	UNK
12H	Car8-02-110	SD	8802130-08A	HC_IR	Petroleum Hydrocarbons	E418.1
12H	Car8-02-110	SD	8802130-08A	ICP200	Metal Screen (ICP)	E200.7
12H	Car8-02-111	SN	S802084-18A	CL8240	Volatile Organic Compounds	SW8240
12H	Car8-02-112	SN	S802085-01A	CL8270	Semivolatile Organic Compounds	SW8270
12H	Car8-02-112	SN	S802085-01A	DRY_WT	Soil Moisture	UNK
12H	Car8-02-113	SN	8802130-09A	HC_IR	Petroleum Hydrocarbons	E418.1
12H	Car8-02-113	SN	8802130-09A	ICP200	Metal Screen (ICP)	E200.7
12H	Car8-02-114	SN	S802085-02A	CL8240	Volatile Organic Compounds	SW8240
12H	Car8-02-115	SN	S802085-03A	CL8270	Semivolatile Organic Compounds	SW8270
12H	Car8-02-115	SN	S802085-03A	DRY_WT	Soil Moisture	UNK
12H	Car8-02-116	SN	8802130-10A	HC_IR	Petroleum Hydrocarbons	E418.1
12H	Car8-02-116	SN	8802130-10A	ICP200	Metal Screen (ICP)	E200.7
12H	Car8-02-117	SN	S802085-04A	CL8240	Volatile Organic Compounds	SW8240
12H	Car8-02-118	SN	S802085-05A	CL8270	Semivolatile Organic Compounds	SW8270
12H	Car8-02-118	SN	S802085-05A	DRY_WT	Soil Moisture	UNK
12H	Car8-02-119	SN	8802130-11A	HC_IR	Petroleum Hydrocarbons	E418.1
12H	Car8-02-119	SN	8802130-11A	ICP200	Metal Screen (ICP)	E200.7
12I	Car8-02-120	SN	S802088-01A	CL8240	Volatile Organic Compounds	SW8240

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
12I	Car8-02-121	SN	S802088-02A	CL8270	Semivolatile Organic Compounds	SW8270
12I	Car8-02-121	SN	S802088-02A	DRY_WT	Soil Moisture	UNK
12I	Car8-02-122	SN	8802135-01A	HC_IR	Petroleum Hydrocarbons	E418.1
12I	Car8-02-122	SN	8802135-01A	ICP200	Metal Screen (ICP)	E200.7
12I	Car8-02-123	SN	S802088-03A	CL8240	Volatile Organic Compounds	SW8240
12I	Car8-02-124	SN	S802088-04A	CL8270	Semivolatile Organic Compounds	SW8270
12I	Car8-02-124	SN	S802088-04A	DRY_WT	Soil Moisture	UNK
12I	Car8-02-125	SN	8802135-02A	HC_IR	Petroleum Hydrocarbons	E418.1
12I	Car8-02-125	SN	8802135-02A	ICP200	Metal Screen (ICP)	E200.7
12I	Car8-02-126	SN	S802088-05A	CL8240	Volatile Organic Compounds	SW8240
12I	Car8-02-127	SN	S802088-06A	CL8270	Semivolatile Organic Compounds	SW8270
12I	Car8-02-127	SN	S802088-06A	DRY_WT	Soil Moisture	UNK
12I	Car8-02-128	SN	8802135-03A	HC_IR	Petroleum Hydrocarbons	E418.1
12I	Car8-02-128	SN	8802135-03A	ICP200	Metal Screen (ICP)	E200.7
12J	Car8-02-129	SD	S802088-07A	CL8240	Volatile Organic Compounds	SW8240
12J	Car8-02-130	SD	S802088-08A	CL8270	Semivolatile Organic Compounds	SW8270
12J	Car8-02-130	SD	S802088-08A	DRY_WT	Soil Moisture	UNK
12J	Car8-02-131	SD	8802135-04A	HC_IR	Petroleum Hydrocarbons	E418.1
12J	Car8-02-131	SD	8802135-04A	ICP200	Metal Screen (ICP)	E200.7
12J	Car8-02-132	SD	S802088-09A	CL8240	Volatile Organic Compounds	SW8240
12J	Car8-02-133	SD	S802088-10A	CL8270	Semivolatile Organic Compounds	SW8270
12J	Car8-02-133	SD	S802088-10A	DRY_WT	Soil Moisture	UNK
12J	Car8-02-134	SD	8802135-05A	HC_IR	Petroleum Hydrocarbons	E418.1
12J	Car8-02-134	SD	8802135-05A	ICP200	Metal Screen (ICP)	E200.7
12J	Car8-02-135	SN	S802088-11A	CL8240	Volatile Organic Compounds	SW8240
12J	Car8-02-136	SN	S802088-12A	CL8270	Semivolatile Organic Compounds	SW8270
12J	Car8-02-136	SN	S802088-12A	DRY_WT	Soil Moisture	UNK
12J	Car8-02-137	SN	8802135-06A	HC_IR	Petroleum Hydrocarbons	E418.1
12J	Car8-02-137	SN	8802135-06A	ICP200	Metal Screen (ICP)	E200.7
12J	Car8-02-138	SN	S802088-13A	CL8240	Volatile Organic Compounds	SW8240
12J	Car8-02-139	SN	S802088-14A	CL8270	Semivolatile Organic Compounds	SW8270
12J	Car8-02-139	SN	S802088-14A	DRY_WT	Soil Moisture	UNK
12J	Car8-02-140	SN	8802135-07A	HC_IR	Petroleum Hydrocarbons	E418.1
12J	Car8-02-140	SN	8802135-07A	ICP200	Metal Screen (ICP)	E200.7
12K	Car8-02-089	SN	S802084-03A	CL8240	Volatile Organic Compounds	SW8240
12K	Car8-02-090	SN	S802084-04A	CL8270	Semivolatile Organic Compounds	SW8270
12K	Car8-02-090	SN	S802084-04A	DRY_WT	Soil Moisture	UNK
12K	Car8-02-091	SN	8802130-02A	HC_IR	Petroleum Hydrocarbons	E418.1
12K	Car8-02-091	SN	8802130-02A	ICP200	Metal Screen (ICP)	E200.7
13	CAR8-03-067	TB	S804009-07A	CL8240	Volatile Organic Compounds	SW8240
13G	CAR8-03-039		S803027-01B	CL8240	Volatile Organic Compounds	SW8240
13G	CAR8-03-039		S803027-01A	CL8270	Semivolatile Organic Compounds	SW8270
13G	CAR8-03-039		S803027-01A	DRY_WT	Soil Moisture	UNK

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
13G	CAR8-03-039		8803042-01A	HC_IR	Petroleum Hydrocarbons	E418.1
13G	CAR8-03-039		8803042-01A	HG_C	Metals	E245.1
13G	CAR8-03-039		8803042-01A	ICP200	Metal Screen (ICP)	E200.7
13G	CAR8-03-061	SN	S804009-01A	CL8240	Volatile Organic Compounds	SW8240
13G	CAR8-03-061	SN	S804009-10A	CL8270	Semivolatile Organic Compounds	SW8270
13G	CAR8-03-061	SN	S804009-10A	DRY_WT	Soil Moisture	UNK
13G	CAR8-03-061	SN	8804003-01A	HC_IR	Petroleum Hydrocarbons	E418.1
13G	CAR8-03-061	SN	8804003-01A	HG_C	Metals	E245.1
13G	CAR8-03-061	SN	8804003-01A	ICP200	Metal Screen (ICP)	E200.7
13G	CAR8-03-062	SD	S804009-02A	CL8240	Volatile Organic Compounds	SW8240
13G	CAR8-03-062	SD	S804009-11A	CL8270	Semivolatile Organic Compounds	SW8270
13G	CAR8-03-062	SD	S804009-11A	DRY_WT	Soil Moisture	UNK
13G	CAR8-03-062	SD	8804003-02A	HC_IR	Petroleum Hydrocarbons	E418.1
13G	CAR8-03-062	SD	8804003-02A	HG_C	Metals	E245.1
13G	CAR8-03-062	SD	8804003-02A	ICP200	Metal Screen (ICP)	E200.7
13H	CAR8-03-041		S803027-03B	CL8240	Volatile Organic Compounds	SW8240
13H	CAR8-03-041		S803027-03A	CL8270	Semivolatile Organic Compounds	SW8270
13H	CAR8-03-041		S803027-03A	DRY_WT	Soil Moisture	UNK
13H	CAR8-03-041		8803042-03A	HC_IR	Petroleum Hydrocarbons	E418.1
13H	CAR8-03-041		8803042-03A	HG_C	Metals	E245.1
13H	CAR8-03-041		8803042-03A	ICP200	Metal Screen (ICP)	E200.7
13H	CAR8-03-064	SN	S804009-04A	CL8240	Volatile Organic Compounds	SW8240
13H	CAR8-03-064	SN	S804009-13A	CL8270	Semivolatile Organic Compounds	SW8270
13H	CAR8-03-064	SN	S804009-13A	DRY_WT	Soil Moisture	UNK
13H	CAR8-03-064	SN	8804003-04A	HC_IR	Petroleum Hydrocarbons	E418.1
13H	CAR8-03-064	SN	8804003-04A	HG_C	Metals	E245.1
13H	CAR8-03-064	SN	8804003-04A	ICP200	Metal Screen (ICP)	E200.7
13I	CAR8-03-043		S803027-05B	CL8240	Volatile Organic Compounds	SW8240
13I	CAR8-03-043		S803027-05A	CL8270	Semivolatile Organic Compounds	SW8270
13I	CAR8-03-043		S803027-05A	DRY_WT	Soil Moisture	UNK
13I	CAR8-03-043		8803042-05A	HC_IR	Petroleum Hydrocarbons	E418.1
13I	CAR8-03-043		8803042-05A	HG_C	Metals	E245.1
13I	CAR8-03-043		8803042-05A	ICP200	Metal Screen (ICP)	E200.7
13I	CAR8-03-066	SN	S804009-06A	CL8240	Volatile Organic Compounds	SW8240
13I	CAR8-03-066	SN	S804009-15A	CL8270	Semivolatile Organic Compounds	SW8270
13I	CAR8-03-066	SN	S804009-15A	DRY_WT	Soil Moisture	UNK
13I	CAR8-03-066	SN	8804003-06A	HC_IR	Petroleum Hydrocarbons	E418.1
13I	CAR8-03-066	SN	8804003-06A	HG_C	Metals	E245.1
13I	CAR8-03-066	SN	8804003-06A	ICP200	Metal Screen (ICP)	E200.7
13J	CAR8-03-042		S803027-04B	CL8240	Volatile Organic Compounds	SW8240
13J	CAR8-03-042		S803027-04A	CL8270	Semivolatile Organic Compounds	SW8270
13J	CAR8-03-042		S803027-04A	DRY_WT	Soil Moisture	UNK
13J	CAR8-03-042		8803042-04A	HC_IR	Petroleum Hydrocarbons	E418.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
13J	CAR8-03-042		8803042-04A	HG_C	Metals	E245.1
13J	CAR8-03-042		8803042-04A	ICP200	Metal Screen (ICP)	E200.7
13J	CAR8-03-065	SN	S804009-05A	CL8240	Volatile Organic Compounds	SW8240
13J	CAR8-03-065	SN	S804009-14A	CL8270	Semivolatile Organic Compounds	SW8270
13J	CAR8-03-065	SN	S804009-14A	DRY_WT	Soil Moisture	UNK
13J	CAR8-03-065	SN	8804003-05A	HC_IR	Petroleum Hydrocarbons	E418.1
13J	CAR8-03-065	SN	8804003-05A	HG_C	Metals	E245.1
13J	CAR8-03-065	SN	8804003-05A	ICP200	Metal Screen (ICP)	E200.7
13K	CAR8-03-040		S803027-02B	CL8240	Volatile Organic Compounds	SW8240
13K	CAR8-03-040		S803027-02A	CL8270	Semivolatile Organic Compounds	SW8270
13K	CAR8-03-040		S803027-02A	DRY_WT	Soil Moisture	UNK
13K	CAR8-03-040		8803042-02A	HC_IR	Petroleum Hydrocarbons	E418.1
13K	CAR8-03-040		8803042-02A	HG_C	Metals	E245.1
13K	CAR8-03-040		8803042-02A	ICP200	Metal Screen (ICP)	E200.7
13K	CAR8-03-063	SN	S804009-03A	CL8240	Volatile Organic Compounds	SW8240
13K	CAR8-03-063	SN	S804009-12A	CL8270	Semivolatile Organic Compounds	SW8270
13K	CAR8-03-063	SN	S804009-12A	DRY_WT	Soil Moisture	UNK
13K	CAR8-03-063	SN	8804003-03A	HC_IR	Petroleum Hydrocarbons	E418.1
13K	CAR8-03-063	SN	8804003-03A	HG_C	Metals	E245.1
13K	CAR8-03-063	SN	8804003-03A	ICP200	Metal Screen (ICP)	E200.7
15D	CAR8-03-068	SN	S804010-01B	8080	Organochlorine Pesticides and PCBs	SW8080
15D	CAR8-03-068	SN	S804010-01A	8150	Chlorinated Phenoxy Herbicides	SW8150
15E	CAR8-03-045	SN	S803135-01B	8080	Organochlorine Pesticides and PCBs	SW8080
15E	CAR8-03-045	SN	S803135-01A	8150	Chlorinated Phenoxy Herbicides	SW8150
15F	CAR8-03-046	SN	S803135-02B	8080	Organochlorine Pesticides and PCBs	SW8080
15F	CAR8-03-046	SN	S803135-02A	8150	Chlorinated Phenoxy Herbicides	SW8150
15G	CAR8-03-069	SN	S804010-02B	8080	Organochlorine Pesticides and PCBs	SW8080
15G	CAR8-03-069	SN	S804010-02A	8150	Chlorinated Phenoxy Herbicides	SW8150
15H	CAR8-03-070	SN	S804010-03B	8080	Organochlorine Pesticides and PCBs	SW8080
15H	CAR8-03-070	SN	S804010-03A	8150	Chlorinated Phenoxy Herbicides	SW8150
15I	CAR8-03-071	SN	S804010-04B	8080	Organochlorine Pesticides and PCBs	SW8080
15I	CAR8-03-071	SN	S804010-04A	8150	Chlorinated Phenoxy Herbicides	SW8150
15J	CAR8-03-072	SN	S804010-05B	8080	Organochlorine Pesticides and PCBs	SW8080
15J	CAR8-03-072	SN	S804010-05A	8150	Chlorinated Phenoxy Herbicides	SW8150
15J	CAR8-03-073	SD	S804010-06B	8080	Organochlorine Pesticides and PCBs	SW8080
15J	CAR8-03-073	SD	S804010-06A	8150	Chlorinated Phenoxy Herbicides	SW8150
16	03-06	TB	8803017-07A	EPA601	Purgeable Halocarbons	E601
16	03-06	TB	8803080-05A	EPA601	Purgeable Halocarbons	E601
16	03-06	TB	8803017-07C	EPA602	Purgeable Aromatics	E602
16	03-06	TB	8803017-07C	XYLENE	Purgeable Aromatics	E602
16	03-07	FB	8803017-08A	EPA601	Purgeable Halocarbons	E601
16	03-07	FB	8803080-06A	EPA601	Purgeable Halocarbons	E601
16	03-07	FB	8803080-06B	EPA602	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
16	03-07	FB	8803017-08C	EPA602	Purgeable Aromatics	E602
16	03-07	FB	8803017-08C	XYLENE	Purgeable Aromatics	E602
16	03-07	FB	8803080-06B	XYLENE	Purgeable Aromatics	E602
16DN3	03-03	N	8803016-03D	AS_G	Metals	E206.2
16DN3	03-03	N	8803016-03A	CL_T	Chloride	E325.3
16DN3	03-03	N	8803080-02B	EPA601	Purgeable Halocarbons	E601
16DN3	03-03	N	8803017-04A	EPA601	Purgeable Halocarbons	E601
16DN3	03-03	N	8803080-02A	EPA602	Purgeable Aromatics	E602
16DN3	03-03	N	8803017-04C	EPA602	Purgeable Aromatics	E602
16DN3	03-03	N	8803016-03A	F_SIE	Fluoride	E340.2
16DN3	03-03	N	8803016-03D	HG_C	Metals	E245.1
16DN3	03-03	N	8803016-03D	ICP200	Metal Screen (ICP)	E200.7
16DN3	03-03	N	8803016-03E	NO2NO3	Nitrate	E353.1
16DN3	03-03	N	8803016-03C	ONG_IR	Oil & Grease	E413.2
16DN3	03-03	N	8803016-03A	OPO4	Orthophosphate	E365.4
16DN3	03-03	N	8803016-03D	PB_G	Metals	E239.2
16DN3	03-03	N	8803016-03D	SE_G	Metals	E270.2
16DN3	03-03	N	8803016-03A	SO4_N	Sulfate	E375.4
16DN3	03-03	N	8803016-03A	TDS	Total Dissolved Solids	E160.1
16DN3	03-03	N	8803080-02A	XYLENE	Purgeable Aromatics	E602
16DN3	03-03	N	8803017-04C	XYLENE	Purgeable Aromatics	E602
16DN3	04-24	N	8804040-04B	AS_G	Metals	E206.2
16DN3	04-24	N	8804040-04C	CL_T	Chloride	E325.3
16DN3	04-24	N	8804041-04A	EPA601	Purgeable Halocarbons	E601
16DN3	04-24	N	8804041-04C	EPA602	Purgeable Aromatics	E602
16DN3	04-24	N	8804040-04C	F_SIE	Fluoride	E340.2
16DN3	04-24	N	8804040-04B	HG_C	Metals	E245.1
16DN3	04-24	N	8804040-04B	ICP200	Metal Screen (ICP)	E200.7
16DN3	04-24	N	8804040-04A	NO3	Nitrate	E353.2
16DN3	04-24	N	8804040-04D	ONG_IR	Oil & Grease	E413.2
16DN3	04-24	N	8804040-04C	OPO4	Orthophosphate	E365.4
16DN3	04-24	N	8804040-04B	PB_G	Metals	E239.2
16DN3	04-24	N	8804040-04B	SE_G	Metals	E270.2
16DN3	04-24	N	8804040-04C	SO4_N	Sulfate	E375.4
16DN3	04-24	N	8804040-04C	TDS	Total Dissolved Solids	E160.1
16DN3	04-24	N	8804041-04C	XYLENE	Purgeable Aromatics	E602
16DN4	03-04	N	8803016-04D	AS_G	Metals	E206.2
16DN4	03-04	N	8803016-04A	CL_T	Chloride	E325.3
16DN4	03-04	N	8803017-05A	EPA601	Purgeable Halocarbons	E601
16DN4	03-04	N	8803080-03A	EPA601	Purgeable Halocarbons	E601
16DN4	03-04	N	8803017-05C	EPA602	Purgeable Aromatics	E602
16DN4	03-04	N	8803016-04A	F_SIE	Fluoride	E340.2
16DN4	03-04	N	8803016-04D	HG_C	Metals	E245.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
16DN4	03-04	N	8803016-04D	ICP200	Metal Screen (ICP)	E200.7
16DN4	03-04	N	8803016-04E	NO2NO3	Nitrate	E353.1
16DN4	03-04	N	8803016-04C	ONG_IR	Oil & Grease	E413.2
16DN4	03-04	N	8803016-04A	OPO4	Orthophosphate	E365.4
16DN4	03-04	N	8803016-04D	PB_G	Metals	E239.2
16DN4	03-04	N	8803016-04D	SE_G	Metals	E270.2
16DN4	03-04	N	8803016-04A	SO4_N	Sulfate	E375.4
16DN4	03-04	N	8803016-04A	TDS	Total Dissolved Solids	E160.1
16DN4	03-04	N	8803017-05C	XYLENE	Purgeable Aromatics	E602
16DN4	03-05	D	8803016-05D	AS_G	Metals	E206.2
16DN4	03-05	D	8803016-05A	CL_T	Chloride	E325.3
16DN4	03-05	D	8803080-04A	EPA601	Purgeable Halocarbons	E601
16DN4	03-05	D	8803017-06A	EPA601	Purgeable Halocarbons	E601
16DN4	03-05	D	8803017-06C	EPA602	Purgeable Aromatics	E602
16DN4	03-05	D	8803080-04B	EPA602	Purgeable Aromatics	E602
16DN4	03-05	D	8803016-05A	F_SIE	Fluoride	E340.2
16DN4	03-05	D	8803016-05D	HG_C	Metals	E245.1
16DN4	03-05	D	8803016-05D	ICP200	Metal Screen (ICP)	E200.7
16DN4	03-05	D	8803016-05E	NO2NO3	Nitrate	E353.1
16DN4	03-05	D	8803016-05C	ONG_IR	Oil & Grease	E413.2
16DN4	03-05	D	8803016-05A	OPO4	Orthophosphate	E365.4
16DN4	03-05	D	8803016-05D	PB_G	Metals	E239.2
16DN4	03-05	D	8803016-05D	SE_G	Metals	E270.2
16DN4	03-05	D	8803016-05A	SO4_N	Sulfate	E375.4
16DN4	03-05	D	8803016-05A	TDS	Total Dissolved Solids	E160.1
16DN4	03-05	D	8803080-04B	XYLENE	Purgeable Aromatics	E602
16DN4	03-05	D	8803017-06C	XYLENE	Purgeable Aromatics	E602
16DN4	04-25	N	8804040-05B	AS_G	Metals	E206.2
16DN4	04-25	N	8804040-05C	CL_T	Chloride	E325.3
16DN4	04-25	N	8804041-05A	EPA601	Purgeable Halocarbons	E601
16DN4	04-25	N	8804041-11A	EPA601	Purgeable Halocarbons	E601
16DN4	04-25	N	8804041-05C	EPA602	Purgeable Aromatics	E602
16DN4	04-25	N	8804040-05C	F_SIE	Fluoride	E340.2
16DN4	04-25	N	8804040-05B	HG_C	Metals	E245.1
16DN4	04-25	N	8804040-05B	ICP200	Metal Screen (ICP)	E200.7
16DN4	04-25	N	8804040-05A	NO3	Nitrate	E353.2
16DN4	04-25	N	8804040-05D	ONG_IR	Oil & Grease	E413.2
16DN4	04-25	N	8804040-05C	OPO4	Orthophosphate	E365.4
16DN4	04-25	N	8804040-05B	PB_G	Metals	E239.2
16DN4	04-25	N	8804040-05B	SE_G	Metals	E270.2
16DN4	04-25	N	8804040-05C	SO4_N	Sulfate	E375.4
16DN4	04-25	N	8804040-05C	TDS	Total Dissolved Solids	E160.1
16DN4	04-25	N	8804041-05C	XYLENE	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
16UP1	03-01	N	8803016-01D	AS_G	Metals	E206.2
16UP1	03-01	N	8803016-01A	CL_T	Chloride	E325.3
16UP1	03-01	N	8803017-02A	EPA601	Purgeable Halocarbons	E601
16UP1	03-01	N	8803080-01A	EPA602	Purgeable Aromatics	E602
16UP1	03-01	N	8803017-02C	EPA602	Purgeable Aromatics	E602
16UP1	03-01	N	8803016-01A	F_SIE	Fluoride	E340.2
16UP1	03-01	N	8803016-01D	HG_C	Metals	E245.1
16UP1	03-01	N	8803016-01D	ICP200	Metal Screen (ICP)	E200.7
16UP1	03-01	N	8803016-01E	NO2NO3	Nitrate	E353.1
16UP1	03-01	N	8803016-01C	ONG_IR	Oil & Grease	E413.2
16UP1	03-01	N	8803016-01A	OPO4	Orthophosphate	E365.4
16UP1	03-01	N	8803016-01D	PB_G	Metals	E239.2
16UP1	03-01	N	8803016-01D	SE_G	Metals	E270.2
16UP1	03-01	N	8803016-01A	SO4_N	Sulfate	E375.4
16UP1	03-01	N	8803016-01A	TDS	Total Dissolved Solids	E160.1
16UP1	03-01	N	8803080-01A	XYLENE	Purgeable Aromatics	E602
16UP1	03-01	N	8803017-02C	XYLENE	Purgeable Aromatics	E602
16UP1	04-22	N	8804040-02B	AS_G	Metals	E206.2
16UP1	04-22	N	8804040-02C	CL_T	Chloride	E325.3
16UP1	04-22	N	8804041-02A	EPA601	Purgeable Halocarbons	E601
16UP1	04-22	N	8804041-09A	EPA602	Purgeable Aromatics	E602
16UP1	04-22	N	8804041-02C	EPA602	Purgeable Aromatics	E602
16UP1	04-22	N	8804040-02C	F_SIE	Fluoride	E340.2
16UP1	04-22	N	8804040-02B	HG_C	Metals	E245.1
16UP1	04-22	N	8804040-02B	ICP200	Metal Screen (ICP)	E200.7
16UP1	04-22	N	8804040-02A	NO3	Nitrate	E353.2
16UP1	04-22	N	8804040-02D	ONG_IR	Oil & Grease	E413.2
16UP1	04-22	N	8804040-02C	OPO4	Orthophosphate	E365.4
16UP1	04-22	N	8804040-02B	PB_G	Metals	E239.2
16UP1	04-22	N	8804040-02B	SE_G	Metals	E270.2
16UP1	04-22	N	8804040-02C	SO4_N	Sulfate	E375.4
16UP1	04-22	N	8804040-02C	TDS	Total Dissolved Solids	E160.1
16UP1	04-22	N	8804041-09A	XYLENE	Purgeable Aromatics	E602
16UP1	04-22	N	8804041-02C	XYLENE	Purgeable Aromatics	E602
16UP2	03-02	N	8803016-02D	AS_G	Metals	E206.2
16UP2	03-02	N	8803016-02A	CL_T	Chloride	E325.3
16UP2	03-02	N	8803017-03A	EPA601	Purgeable Halocarbons	E601
16UP2	03-02	N	8803017-03C	EPA602	Purgeable Aromatics	E602
16UP2	03-02	N	8803016-02A	F_SIE	Fluoride	E340.2
16UP2	03-02	N	8803016-02D	HG_C	Metals	E245.1
16UP2	03-02	N	8803016-02D	ICP200	Metal Screen (ICP)	E200.7
16UP2	03-02	N	8803016-02E	NO2NO3	Nitrate	E353.1
16UP2	03-02	N	8803016-02C	ONG_IR	Oil & Grease	E413.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
16UP2	03-02	N	8803016-02A	OPO4	Orthophosphate	E365.4
16UP2	03-02	N	8803016-02D	PB_G	Metals	E239.2
16UP2	03-02	N	8803016-02D	SE_G	Metals	E270.2
16UP2	03-02	N	8803016-02A	SO4_N	Sulfate	E375.4
16UP2	03-02	N	8803016-02A	TDS	Total Dissolved Solids	E160.1
16UP2	03-02	N	8803017-03C	XYLENE	Purgeable Aromatics	E602
16UP2	04-23	N	8804040-03B	AS_G	Metals	E206.2
16UP2	04-23	N	8804040-03C	CL_T	Chloride	E325.3
16UP2	04-23	N	8804041-03A	EPA601	Purgeable Halocarbons	E601
16UP2	04-23	N	8804041-03C	EPA602	Purgeable Aromatics	E602
16UP2	04-23	N	8804041-10A	EPA602	Purgeable Aromatics	E602
16UP2	04-23	N	8804040-03C	F_SIE	Fluoride	E340.2
16UP2	04-23	N	8804040-03B	HG_C	Metals	E245.1
16UP2	04-23	N	8804040-03B	ICP200	Metal Screen (ICP)	E200.7
16UP2	04-23	N	8804040-03A	NO3	Nitrate	E353.2
16UP2	04-23	N	8804040-03D	ONG_IR	Oil & Grease	E413.2
16UP2	04-23	N	8804040-03C	OPO4	Orthophosphate	E365.4
16UP2	04-23	N	8804040-03B	PB_G	Metals	E239.2
16UP2	04-23	N	8804040-03B	SE_G	Metals	E270.2
16UP2	04-23	N	8804040-03C	SO4_N	Sulfate	E375.4
16UP2	04-23	N	8804040-03C	TDS	Total Dissolved Solids	E160.1
16UP2	04-23	N	8804041-10A	XYLENE	Purgeable Aromatics	E602
16UP2	04-23	N	8804041-03C	XYLENE	Purgeable Aromatics	E602
17	Car8-02-141	SN	S802089-01A	CL8240	Volatile Organic Compounds	SW8240
17	Car8-02-142	SN	S802089-02A	CL8270	Semivolatile Organic Compounds	SW8270
17	Car8-02-142	SN	S802089-02A	DRY_WT	Soil Moisture	UNK
17	Car8-02-143	SN	S802094-01B	8080	Organochlorine Pesticides and PCBs	SW8080
17	Car8-02-143	SN	S802094-01C	8150	Chlorinated Phenoxy Herbicides	SW8150
17	Car8-02-143	SN	S802094-01A	AG_EM	Metal Screen (ICP)	E200.7
17	Car8-02-143	SN	S802094-01A	AS_GF	Metals	E206.2
17	Car8-02-143	SN	S802094-01A	BA_EM	Metal Screen (ICP)	E200.7
17	Car8-02-143	SN	S802094-01A	CD_EM	Metal Screen (ICP)	E200.7
17	Car8-02-143	SN	S802094-01A	CR_EM	Metal Screen (ICP)	E200.7
17	Car8-02-143	SN	S802094-01A	HG_CV	Metals	E245.1
17	Car8-02-143	SN	S802094-01A	PB_G	Metals	E239.2
17	Car8-02-143	SN	S802094-01A	SE_GF	Metals	E270.2
17I	03-08	N	8803016-06D	AS_G	Metals	E206.2
17I	03-08	N	S803006-01A	CL_625	Extractable Priority Pollutants	E625
17I	03-08	N	8803016-06A	CL_T	Chloride	E325.3
17I	03-08	N	8803017-09A	EPA601	Purgeable Halocarbons	E601
17I	03-08	N	8803017-09C	EPA602	Purgeable Aromatics	E602
17I	03-08	N	8803016-06A	F_SIE	Fluoride	E340.2
17I	03-08	N	8803016-06C	HC_IR	Petroleum Hydrocarbons	E418.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
17I	03-08	N	8803016-06D	HG_C	Metals	E245.1
17I	03-08	N	8803016-06D	ICP200	Metal Screen (ICP)	E200.7
17I	03-08	N	8803016-06E	NO2NO3	Nitrate	E353.1
17I	03-08	N	8803016-06A	OPO4	Orthophosphate	E365.4
17I	03-08	N	8803016-06D	PB_G	Metals	E239.2
17I	03-08	N	8803016-06D	SE_G	Metals	E270.2
17I	03-08	N	8803016-06A	SO4_N	Sulfate	E375.4
17I	03-08	N	8803016-06A	TDS	Total Dissolved Solids	E160.1
17I	03-08	N	8803017-09C	XYLENE	Purgeable Aromatics	E602
17I	03-09	TB	8803017-10A	EPA601	Purgeable Halocarbons	E601
17I	03-09	TB	8803080-07A	EPA601	Purgeable Halocarbons	E601
17I	03-09	TB	8803017-10C	EPA602	Purgeable Aromatics	E602
17I	03-09	TB	8803080-07B	EPA602	Purgeable Aromatics	E602
17I	03-09	TB	8803017-10C	XYLENE	Purgeable Aromatics	E602
17I	03-09	TB	8803080-07B	XYLENE	Purgeable Aromatics	E602
17I	03-10	FB	8803018-06A	EPA601	Purgeable Halocarbons	E601
17I	03-10	FB	8803018-01A	EPA601	Purgeable Halocarbons	E601
17I	03-10	FB	8803018-01C	EPA602	Purgeable Aromatics	E602
17I	03-10	FB	8803018-01C	XYLENE	Purgeable Aromatics	E602
17I	04-64	N	8804074-05D	AS_G	Metals	E206.2
17I	04-64	N	S804083-05A	CL_625	Extractable Priority Pollutants	E625
17I	04-64	N	8804074-05A	CL_T	Chloride	E325.3
17I	04-64	N	8804075-06A	EPA601	Purgeable Halocarbons	E601
17I	04-64	N	8804075-06C	EPA602	Purgeable Aromatics	E602
17I	04-64	N	8804074-05A	F_SIE	Fluoride	E340.2
17I	04-64	N	8804074-05C	HC_IR	Petroleum Hydrocarbons	E418.1
17I	04-64	N	8804074-05D	HG_C	Metals	E245.1
17I	04-64	N	8804074-05D	ICP200	Metal Screen (ICP)	E200.7
17I	04-64	N	8804074-05B	NO2NO3	Nitrate	E353.1
17I	04-64	N	8804074-05A	OPO4	Orthophosphate	E365.4
17I	04-64	N	8804074-05D	PB_G	Metals	E239.2
17I	04-64	N	8804074-05A	SO4_N	Sulfate	E375.4
17I	04-64	N	8804074-05A	TDS	Total Dissolved Solids	E160.1
17I	04-64	N	8804075-06C	XYLENE	Purgeable Aromatics	E602
17I	Car8-02-053	SN	S802056-14A	CL8240	Volatile Organic Compounds	SW8240
17I	Car8-02-054	SN	8802084-10A	HC_IR	Petroleum Hydrocarbons	E418.1
17I	Car8-02-054	SN	8802084-10A	PB_G	Metals	E239.2
17I	Car8-02-055	SN	S802056-15A	CL8240	Volatile Organic Compounds	SW8240
17I	Car8-02-056	SN	8802084-11A	HC_IR	Petroleum Hydrocarbons	E418.1
17I	Car8-02-056	SN	8802084-11A	PB_G	Metals	E239.2
17J	03-13	N	8803016-09D	AS_G	Metals	E206.2
17J	03-13	N	8803016-09A	CL_T	Chloride	E325.3
17J	03-13	N	8803018-04A	EPA601	Purgeable Halocarbons	E601

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
17J	03-13	N	8803018-04C	EPA602	Purgeable Aromatics	E602
17J	03-13	N	8803016-09A	F_SIE	Fluoride	E340.2
17J	03-13	N	8803016-09C	HC_IR	Petroleum Hydrocarbons	E418.1
17J	03-13	N	8803016-09D	HG_C	Metals	E245.1
17J	03-13	N	8803016-09D	ICP200	Metal Screen (ICP)	E200.7
17J	03-13	N	8803016-09E	NO2NO3	Nitrate	E353.1
17J	03-13	N	8803016-09A	OPO4	Orthophosphate	E365.4
17J	03-13	N	8803016-09D	PB_G	Metals	E239.2
17J	03-13	N	8803016-09D	SE_G	Metals	E270.2
17J	03-13	N	8803016-09A	SO4_N	Sulfate	E375.4
17J	03-13	N	8803016-09A	TDS	Total Dissolved Solids	E160.1
17J	03-13	N	8803018-04C	XYLENE	Purgeable Aromatics	E602
17J	04-69	N	8804079-01C	AS_G	Metals	E206.2
17J	04-69	N	8804079-01A	CL_T	Chloride	E325.3
17J	04-69	N	8804080-01A	EPA601	Purgeable Halocarbons	E601
17J	04-69	N	8804080-01C	EPA602	Purgeable Aromatics	E602
17J	04-69	N	8804079-01A	F_SIE	Fluoride	E340.2
17J	04-69	N	8804079-01D	HC_IR	Petroleum Hydrocarbons	E418.1
17J	04-69	N	8804079-01C	HG_C	Metals	E245.1
17J	04-69	N	8804079-01C	ICP200	Metal Screen (ICP)	E200.7
17J	04-69	N	8804079-01B	NO2NO3	Nitrate	E353.1
17J	04-69	N	8804079-01A	OPO4	Orthophosphate	E365.4
17J	04-69	N	8804079-01C	PB_G	Metals	E239.2
17J	04-69	N	8804079-01A	SO4_N	Sulfate	E375.4
17J	04-69	N	8804079-01A	TDS	Total Dissolved Solids	E160.1
17J	04-69	N	8804080-01C	XYLENE	Purgeable Aromatics	E602
17J	04-70	D	8804079-02C	AS_G	Metals	E206.2
17J	04-70	D	8804079-02C	AS_G	Metals	E206.2
17J	04-70	D	8804079-02A	CL_T	Chloride	E325.3
17J	04-70	D	8804079-02A	CL_T	Chloride	E325.3
17J	04-70	D	8804080-02A	EPA601	Purgeable Halocarbons	E601
17J	04-70	D	8804080-02A	EPA601	Purgeable Halocarbons	E601
17J	04-70	D	8804080-02C	EPA602	Purgeable Aromatics	E602
17J	04-70	D	8804080-02C	EPA602	Purgeable Aromatics	E602
17J	04-70	D	8804079-02A	F_SIE	Fluoride	E340.2
17J	04-70	D	8804079-02A	F_SIE	Fluoride	E340.2
17J	04-70	D	8804079-02D	HC_IR	Petroleum Hydrocarbons	E418.1
17J	04-70	D	8804079-02D	HC_IR	Petroleum Hydrocarbons	E418.1
17J	04-70	D	8804079-02C	HG_C	Metals	E245.1
17J	04-70	D	8804079-02C	HG_C	Metals	E245.1
17J	04-70	D	8804079-02C	ICP200	Metal Screen (ICP)	E200.7
17J	04-70	D	8804079-02C	ICP200	Metal Screen (ICP)	E200.7
17J	04-70	D	8804079-02B	NO2NO3	Nitrate	E353.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
17J	04-70	D	8804079-02B	NO2NO3	Nitrate	E353.1
17J	04-70	D	8804079-02A	OPO4	Orthophosphate	E365.4
17J	04-70	D	8804079-02A	OPO4	Orthophosphate	E365.4
17J	04-70	D	8804079-02C	PB_G	Metals	E239.2
17J	04-70	D	8804079-02C	PB_G	Metals	E239.2
17J	04-70	D	8804079-02A	SO4_N	Sulfate	E375.4
17J	04-70	D	8804079-02A	SO4_N	Sulfate	E375.4
17J	04-70	D	8804079-02A	TDS	Total Dissolved Solids	E160.1
17J	04-70	D	8804079-02A	TDS	Total Dissolved Solids	E160.1
17J	04-70	D	8804080-02C	XYLENE	Purgeable Aromatics	E602
17J	04-70	D	8804080-02C	XYLENE	Purgeable Aromatics	E602
17J	04-71	ER	8804079-03C	AS_G	Metals	E206.2
17J	04-71	ER	8804079-03A	CL_T	Chloride	E325.3
17J	04-71	ER	8804080-03A	EPA601	Purgeable Halocarbons	E601
17J	04-71	ER	8804080-07A	EPA602	Purgeable Aromatics	E602
17J	04-71	ER	8804080-03C	EPA602	Purgeable Aromatics	E602
17J	04-71	ER	8804079-03A	F_SIE	Fluoride	E340.2
17J	04-71	ER	8804079-03D	HC_IR	Petroleum Hydrocarbons	E418.1
17J	04-71	ER	8804079-03C	HG_C	Metals	E245.1
17J	04-71	ER	8804079-03C	ICP200	Metal Screen (ICP)	E200.7
17J	04-71	ER	8804079-03B	NO2NO3	Nitrate	E353.1
17J	04-71	ER	8804079-03E	ONG_IR	Oil & Grease	E413.2
17J	04-71	ER	8804079-03A	OPO4	Orthophosphate	E365.4
17J	04-71	ER	8804079-03C	PB_G	Metals	E239.2
17J	04-71	ER	8804079-03C	SE_G	Metals	E270.2
17J	04-71	ER	8804079-03A	SO4_N	Sulfate	E375.4
17J	04-71	ER	8804079-03A	TDS	Total Dissolved Solids	E160.1
17J	04-71	ER	8804080-07A	XYLENE	Purgeable Aromatics	E602
17J	04-71	ER	8804080-03C	XYLENE	Purgeable Aromatics	E602
17J	Car8-02-065	SN	S802064-05A	CL8240	Volatile Organic Compounds	SW8240
17J	Car8-02-066	SN	8802111-05A	HC_IR	Petroleum Hydrocarbons	E418.1
17J	Car8-02-066	SN	8802111-05A	PB_G	Metals	E239.2
17J	Car8-02-067	FB	S802064-06A	CL8240	Volatile Organic Compounds	SW8240
17K	03-11	N	8803016-07D	AS_G	Metals	E206.2
17K	03-11	N	8803016-07A	CL_T	Chloride	E325.3
17K	03-11	N	8803018-02A	EPA601	Purgeable Halocarbons	E601
17K	03-11	N	8803018-07A	EPA602	Purgeable Aromatics	E602
17K	03-11	N	8803018-02C	EPA602	Purgeable Aromatics	E602
17K	03-11	N	8803016-07A	F_SIE	Fluoride	E340.2
17K	03-11	N	8803016-07C	HC_IR	Petroleum Hydrocarbons	E418.1
17K	03-11	N	8803016-07D	HG_C	Metals	E245.1
17K	03-11	N	8803016-07D	ICP200	Metal Screen (ICP)	E200.7
17K	03-11	N	8803016-07E	NO2NO3	Nitrate	E353.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
17K	03-11	N	8803016-07A	OPO4	Orthophosphate	E365.4
17K	03-11	N	8803016-07D	PB_G	Metals	E239.2
17K	03-11	N	8803016-07D	SE_G	Metals	E270.2
17K	03-11	N	8803016-07A	SO4_N	Sulfate	E375.4
17K	03-11	N	8803016-07A	TDS	Total Dissolved Solids	E160.1
17K	03-11	N	8803018-07A	XYLENE	Purgeable Aromatics	E602
17K	03-11	N	8803018-02C	XYLENE	Purgeable Aromatics	E602
17K	04-68	N	8804074-09D	AS_G	Metals	E206.2
17K	04-68	N	8804074-09A	CL_T	Chloride	E325.3
17K	04-68	N	8804145-08A	EPA601	Purgeable Halocarbons	E601
17K	04-68	N	8804075-10A	EPA601	Purgeable Halocarbons	E601
17K	04-68	N	8804145-08A	EPA602	Purgeable Aromatics	E602
17K	04-68	N	8804075-10C	EPA602	Purgeable Aromatics	E602
17K	04-68	N	8804074-09A	F_SIE	Fluoride	E340.2
17K	04-68	N	8804074-09C	HC_IR	Petroleum Hydrocarbons	E418.1
17K	04-68	N	8804074-09D	HG_C	Metals	E245.1
17K	04-68	N	8804074-09D	ICP200	Metal Screen (ICP)	E200.7
17K	04-68	N	8804074-09B	NO2NO3	Nitrate	E353.1
17K	04-68	N	8804074-09A	OPO4	Orthophosphate	E365.4
17K	04-68	N	8804074-09D	PB_G	Metals	E239.2
17K	04-68	N	8804074-09A	SO4_N	Sulfate	E375.4
17K	04-68	N	8804074-09A	TDS	Total Dissolved Solids	E160.1
17K	04-68	N	8804075-10C	XYLENE	Purgeable Aromatics	E602
17K	04-68	N	8804145-08A	XYLENE	Purgeable Aromatics	E602
17K	Car8-02-057	SD	S802064-01A	CL8240	Volatile Organic Compounds	SW8240
17K	Car8-02-058	SD	S802064-02A	CL8240	Volatile Organic Compounds	SW8240
17K	Car8-02-059	SD	8802111-01A	HC_IR	Petroleum Hydrocarbons	E418.1
17K	Car8-02-059	SD	8802111-01A	PB_G	Metals	E239.2
17K	Car8-02-060	SD	8802111-02A	HC_IR	Petroleum Hydrocarbons	E418.1
17K	Car8-02-060	SD	8802111-02A	PB_G	Metals	E239.2
17L	03-12	N	8803016-08D	AS_G	Metals	E206.2
17L	03-12	N	8803016-08A	CL_T	Chloride	E325.3
17L	03-12	N	8803018-03A	EPA601	Purgeable Halocarbons	E601
17L	03-12	N	8803018-03C	EPA602	Purgeable Aromatics	E602
17L	03-12	N	8803016-08A	F_SIE	Fluoride	E340.2
17L	03-12	N	8803016-08C	HC_IR	Petroleum Hydrocarbons	E418.1
17L	03-12	N	8803016-08D	HG_C	Metals	E245.1
17L	03-12	N	8803016-08D	ICP200	Metal Screen (ICP)	E200.7
17L	03-12	N	8803016-08E	NO2NO3	Nitrate	E353.1
17L	03-12	N	8803016-08A	OPO4	Orthophosphate	E365.4
17L	03-12	N	8803016-08D	PB_G	Metals	E239.2
17L	03-12	N	8803016-08D	SE_G	Metals	E270.2
17L	03-12	N	8803016-08A	SO4_N	Sulfate	E375.4

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
17L	03-12	N	8803016-08A	TDS	Total Dissolved Solids	E160.1
17L	03-12	N	8803018-03C	XYLENE	Purgeable Aromatics	E602
17L	04-72	N	8804079-04C	AS_G	Metals	E206.2
17L	04-72	N	8804079-04A	CL_T	Chloride	E325.3
17L	04-72	N	8804080-04A	EPA601	Purgeable Halocarbons	E601
17L	04-72	N	8804080-04C	EPA602	Purgeable Aromatics	E602
17L	04-72	N	8804079-04A	F_SIE	Fluoride	E340.2
17L	04-72	N	8804079-04D	HC_IR	Petroleum Hydrocarbons	E418.1
17L	04-72	N	8804079-04C	HG_C	Metals	E245.1
17L	04-72	N	8804079-04C	ICP200	Metal Screen (ICP)	E200.7
17L	04-72	N	8804079-04B	NO2NO3	Nitrate	E353.1
17L	04-72	N	8804079-04A	OPO4	Orthophosphate	E365.4
17L	04-72	N	8804079-04C	PB_G	Metals	E239.2
17L	04-72	N	8804079-04A	SO4_N	Sulfate	E375.4
17L	04-72	N	8804079-04A	TDS	Total Dissolved Solids	E160.1
17L	04-72	N	8804080-04C	XYLENE	Purgeable Aromatics	E602
17L	04-73	ER	8804079-05C	AS_G	Metals	E206.2
17L	04-73	ER	8804079-05A	CL_T	Chloride	E325.3
17L	04-73	ER	8804080-08A	EPA601	Purgeable Halocarbons	E601
17L	04-73	ER	8804080-05A	EPA601	Purgeable Halocarbons	E601
17L	04-73	ER	8804080-08A	EPA602	Purgeable Aromatics	E602
17L	04-73	ER	8804080-05C	EPA602	Purgeable Aromatics	E602
17L	04-73	ER	8804079-05A	F_SIE	Fluoride	E340.2
17L	04-73	ER	8804079-05C	HG_C	Metals	E245.1
17L	04-73	ER	8804079-05C	ICP200	Metal Screen (ICP)	E200.7
17L	04-73	ER	8804079-05B	NO2NO3	Nitrate	E353.1
17L	04-73	ER	8804079-05A	OPO4	Orthophosphate	E365.4
17L	04-73	ER	8804079-05C	PB_G	Metals	E239.2
17L	04-73	ER	8804079-05A	SO4_N	Sulfate	E375.4
17L	04-73	ER	8804079-05A	TDS	Total Dissolved Solids	E160.1
17L	04-73	ER	8804080-05C	XYLENE	Purgeable Aromatics	E602
17L	04-73	ER	8804080-08A	XYLENE	Purgeable Aromatics	E602
17L	Car8-02-063	SN	S802064-04A	CL8240	Volatile Organic Compounds	SW8240
17L	Car8-02-064	SN	8802111-04A	HC_IR	Petroleum Hydrocarbons	E418.1
17L	Car8-02-064	SN	8802111-04A	PB_G	Metals	E239.2
17M	03-14	N	8803031-01C	AS_G	Metals	E206.2
17M	03-14	N	8803031-01A	CL_T	Chloride	E325.3
17M	03-14	N	8803029-01A	EPA601	Purgeable Halocarbons	E601
17M	03-14	N	8803029-01C	EPA602	Purgeable Aromatics	E602
17M	03-14	N	8803031-01A	F_SIE	Fluoride	E340.2
17M	03-14	N	8803031-01D	HC_IR	Petroleum Hydrocarbons	E418.1
17M	03-14	N	8803031-01C	HG_C	Metals	E245.1
17M	03-14	N	8803031-01C	ICP200	Metal Screen (ICP)	E200.7

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
17M	03-14	N	8803031-01E	NO2NO3	Nitrate	E353.1
17M	03-14	N	8803031-01A	OPO4	Orthophosphate	E365.4
17M	03-14	N	8803031-01C	PB_G	Metals	E239.2
17M	03-14	N	8803031-01C	SE_G	Metals	E270.2
17M	03-14	N	8803031-01A	SO4_N	Sulfate	E375.4
17M	03-14	N	8803031-01A	TDS	Total Dissolved Solids	E160.1
17M	03-14	N	8803029-01C	XYLENE	Purgeable Aromatics	E602
17M	04-65	N	8804074-06D	AS_G	Metals	E206.2
17M	04-65	N	8804074-06A	CL_T	Chloride	E325.3
17M	04-65	N	8804075-07A	EPA601	Purgeable Halocarbons	E601
17M	04-65	N	8804075-07C	EPA602	Purgeable Aromatics	E602
17M	04-65	N	8804074-06A	F_SIE	Fluoride	E340.2
17M	04-65	N	8804074-06C	HC_IR	Petroleum Hydrocarbons	E418.1
17M	04-65	N	8804074-06D	HG_C	Metals	E245.1
17M	04-65	N	8804074-06D	ICP200	Metal Screen (ICP)	E200.7
17M	04-65	N	8804074-06B	NO2NO3	Nitrate	E353.1
17M	04-65	N	8804074-06A	OPO4	Orthophosphate	E365.4
17M	04-65	N	8804074-06D	PB_G	Metals	E239.2
17M	04-65	N	8804074-06A	SO4_N	Sulfate	E375.4
17M	04-65	N	8804074-06A	TDS	Total Dissolved Solids	E160.1
17M	04-65	N	8804075-07C	XYLENE	Purgeable Aromatics	E602
17M	Car8-02-061	SN	S802064-03A	CL8240	Volatile Organic Compounds	SW8240
17M	Car8-02-062	SN	8802111-03A	HC_IR	Petroleum Hydrocarbons	E418.1
17M	Car8-02-062	SN	8802111-03A	PB_G	Metals	E239.2
1A	02-159	N	8802191-05D	AS_G	Metals	E206.2
1A	02-159	N	S802099-03A	CL_625	Extractable Priority Pollutants	E625
1A	02-159	N	8802191-05E	CL_T	Chloride	E325.3
1A	02-159	N	8802190-05A	EPA601	Purgeable Halocarbons	E601
1A	02-159	N	8802190-05C	EPA602	Purgeable Aromatics	E602
1A	02-159	N	8802191-05E	F_SIE	Fluoride	E340.2
1A	02-159	N	8802191-05D	HG_C	Metals	E245.1
1A	02-159	N	8802191-05D	ICP200	Metal Screen (ICP)	E200.7
1A	02-159	N	8802191-05B	NO2NO3	Nitrate	E353.1
1A	02-159	N	8802191-05C	ONG_IR	Oil & Grease	E413.2
1A	02-159	N	8802191-05E	OPO4	Orthophosphate	E365.4
1A	02-159	N	8802191-05D	PB_G	Metals	E239.2
1A	02-159	N	8802191-05D	SE_G	Metals	E270.2
1A	02-159	N	8802191-05E	SO4_N	Sulfate	E375.4
1A	02-159	N	8802191-05E	TDS	Total Dissolved Solids	E160.1
1A	02-159	N	8802190-05C	XYLENE	Purgeable Aromatics	E602
1A	04-12	N	8804029-01B	AS_G	Metals	E206.2
1A	04-12	N	8804029-01C	CL_T	Chloride	E325.3
1A	04-12	N	8804030-01A	EPA601	Purgeable Halocarbons	E601

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
1A	04-12	N	8804030-10A	EPA602	Purgeable Aromatics	E602
1A	04-12	N	8804030-01C	EPA602	Purgeable Aromatics	E602
1A	04-12	N	8804029-01C	F_SIE	Fluoride	E340.2
1A	04-12	N	8804029-01B	HG_C	Metals	E245.1
1A	04-12	N	8804029-01B	ICP200	Metal Screen (ICP)	E200.7
1A	04-12	N	8804029-01A	NO3	Nitrate	E353.2
1A	04-12	N	8804029-01D	ONG_IR	Oil & Grease	E413.2
1A	04-12	N	8804029-01C	OPO4	Orthophosphate	E365.4
1A	04-12	N	8804029-01B	PB_G	Metals	E239.2
1A	04-12	N	8804029-01B	SE_G	Metals	E270.2
1A	04-12	N	8804029-01C	SO4_N	Sulfate	E375.4
1A	04-12	N	8804029-01C	TDS	Total Dissolved Solids	E160.1
1A	04-12	N	8804030-01C	XYLENE	Purgeable Aromatics	E602
1A	04-12	N	8804030-10A	XYLENE	Purgeable Aromatics	E602
1A	04-13	TB	8804030-02A	EPA601	Purgeable Halocarbons	E601
1A	04-13	TB	8804030-02C	EPA602	Purgeable Aromatics	E602
1A	04-13	TB	8804030-02C	XYLENE	Purgeable Aromatics	E602
1A	04-14	FB	8804030-03A	EPA601	Purgeable Halocarbons	E601
1A	04-14	FB	8804030-03C	EPA602	Purgeable Aromatics	E602
1A	04-14	FB	8804030-03C	XYLENE	Purgeable Aromatics	E602
1B	02-158	N	8803017-01A	EPA602	Purgeable Aromatics	E602
1B	02-158	N	8803017-01A	EPA602	Purgeable Aromatics	E602
1B	02-158	N	8803017-01A	XYLENE	Purgeable Aromatics	E602
1B	02-158	N	8803017-01A	XYLENE	Purgeable Aromatics	E602
1B	04-15	N	8804075-01A	EPA601	Purgeable Halocarbons	E601
1B	04-15	N	8804145-01A	EPA601	Purgeable Halocarbons	E601
1B	04-15	N	8804075-01B	EPA602	Purgeable Aromatics	E602
1B	04-15	N	8804075-01B	XYLENE	Purgeable Aromatics	E602
1C	02-160	N	8802191-06D	AS_G	Metals	E206.2
1C	02-160	N	8802191-06E	CL_T	Chloride	E325.3
1C	02-160	N	8802190-06A	EPA601	Purgeable Halocarbons	E601
1C	02-160	N	8802190-06C	EPA602	Purgeable Aromatics	E602
1C	02-160	N	8802190-13A	EPA602	Purgeable Aromatics	E602
1C	02-160	N	8802191-06E	F_SIE	Fluoride	E340.2
1C	02-160	N	8802191-06D	HG_C	Metals	E245.1
1C	02-160	N	8802191-06D	ICP200	Metal Screen (ICP)	E200.7
1C	02-160	N	8802191-06B	NO2NO3	Nitrate	E353.1
1C	02-160	N	8802191-06C	ONG_IR	Oil & Grease	E413.2
1C	02-160	N	8802191-06E	OPO4	Orthophosphate	E365.4
1C	02-160	N	8802191-06D	PB_G	Metals	E239.2
1C	02-160	N	8802191-06D	SE_G	Metals	E270.2
1C	02-160	N	8802191-06E	SO4_N	Sulfate	E375.4
1C	02-160	N	8802191-06E	TDS	Total Dissolved Solids	E160.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
1C	02-160	N	8802190-13A	XYLENE	Purgeable Aromatics	E602
1C	02-160	N	8802190-06C	XYLENE	Purgeable Aromatics	E602
1C	04-17	N	8804029-03B	AS_G	Metals	E206.2
1C	04-17	N	8804029-03C	CL_T	Chloride	E325.3
1C	04-17	N	8804030-05A	EPA601	Purgeable Halocarbons	E601
1C	04-17	N	8804030-11A	EPA602	Purgeable Aromatics	E602
1C	04-17	N	8804030-05C	EPA602	Purgeable Aromatics	E602
1C	04-17	N	8804029-03C	F_SIE	Fluoride	E340.2
1C	04-17	N	8804029-03B	HG_C	Metals	E245.1
1C	04-17	N	8804029-03B	ICP200	Metal Screen (ICP)	E200.7
1C	04-17	N	8804029-03A	NO3	Nitrate	E353.2
1C	04-17	N	8804029-03D	ONG_IR	Oil & Grease	E413.2
1C	04-17	N	8804029-03C	OPO4	Orthophosphate	E365.4
1C	04-17	N	8804029-03B	PB_G	Metals	E239.2
1C	04-17	N	8804029-03B	SE_G	Metals	E270.2
1C	04-17	N	8804029-03C	SO4_N	Sulfate	E375.4
1C	04-17	N	8804029-03C	TDS	Total Dissolved Solids	E160.1
1C	04-17	N	8804030-05C	XYLENE	Purgeable Aromatics	E602
1C	04-17	N	8804030-11A	XYLENE	Purgeable Aromatics	E602
1D	02-161	N	8802191-07D	AS_G	Metals	E206.2
1D	02-161	N	8802191-07E	CL_T	Chloride	E325.3
1D	02-161	N	8802190-07A	EPA601	Purgeable Halocarbons	E601
1D	02-161	N	8802190-07C	EPA602	Purgeable Aromatics	E602
1D	02-161	N	8802191-07E	F_SIE	Fluoride	E340.2
1D	02-161	N	8802191-07D	HG_C	Metals	E245.1
1D	02-161	N	8802191-07D	ICP200	Metal Screen (ICP)	E200.7
1D	02-161	N	8802191-07B	NO2NO3	Nitrate	E353.1
1D	02-161	N	8802191-07C	ONG_IR	Oil & Grease	E413.2
1D	02-161	N	8802191-07E	OPO4	Orthophosphate	E365.4
1D	02-161	N	8802191-07D	PB_G	Metals	E239.2
1D	02-161	N	8802191-07D	SE_G	Metals	E270.2
1D	02-161	N	8802191-07E	SO4_N	Sulfate	E375.4
1D	02-161	N	8802191-07E	TDS	Total Dissolved Solids	E160.1
1D	02-161	N	8802190-07C	XYLENE	Purgeable Aromatics	E602
1D	04-16	N	8804029-02B	AS_G	Metals	E206.2
1D	04-16	N	8804029-02C	CL_T	Chloride	E325.3
1D	04-16	N	8804030-Q4A	EPA601	Purgeable Halocarbons	E601
1D	04-16	N	8804030-04C	EPA602	Purgeable Aromatics	E602
1D	04-16	N	8804029-02C	F_SIE	Fluoride	E340.2
1D	04-16	N	8804029-02B	HG_C	Metals	E245.1
1D	04-16	N	8804029-02B	ICP200	Metal Screen (ICP)	E200.7
1D	04-16	N	8804029-02A	NO3	Nitrate	E353.2
1D	04-16	N	8804029-02D	ONG_IR	Oil & Grease	E413.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
1D	04-16	N	8804029-02C	OPO4	Orthophosphate	E365.4
1D	04-16	N	8804029-02B	PB_G	Metals	E239.2
1D	04-16	N	8804029-02B	SE_G	Metals	E270.2
1D	04-16	N	8804029-02C	SO4_N	Sulfate	E375.4
1D	04-16	N	8804029-02C	TDS	Total Dissolved Solids	E160.1
1D	04-16	N	8804030-04C	XYLENE	Purgeable Aromatics	E602
1E	02-163	N	8802191-09D	AS_G	Metals	E206.2
1E	02-163	N	8802191-09E	CL_T	Chloride	E325.3
1E	02-163	N	8802190-09A	EPA601	Purgeable Halocarbons	E601
1E	02-163	N	8802190-09C	EPA602	Purgeable Aromatics	E602
1E	02-163	N	8802191-09E	F_SIE	Fluoride	E340.2
1E	02-163	N	8802191-09D	HG_C	Metals	E245.1
1E	02-163	N	8802191-09D	ICP200	Metal Screen (ICP)	E200.7
1E	02-163	N	8802191-09B	NO2NO3	Nitrate	E353.1
1E	02-163	N	8802191-09C	ONG_IR	Oil & Grease	E413.2
1E	02-163	N	8802191-09E	OPO4	Orthophosphate	E365.4
1E	02-163	N	8802191-09D	PB_G	Metals	E239.2
1E	02-163	N	8802191-09D	SE_G	Metals	E270.2
1E	02-163	N	8802191-09E	SO4_N	Sulfate	E375.4
1E	02-163	N	8802191-09E	TDS	Total Dissolved Solids	E160.1
1E	02-163	N	8802190-09C	XYLENE	Purgeable Aromatics	E602
1E	04-18	N	8804029-04B	AS_G	Metals	E206.2
1E	04-18	N	S804038-01A	CL_625	Extractable Priority Pollutants	E625
1E	04-18	N	8804029-04C	CL_T	Chloride	E325.3
1E	04-18	N	8804030-06A	EPA601	Purgeable Halocarbons	E601
1E	04-18	N	8804030-12A	EPA602	Purgeable Aromatics	E602
1E	04-18	N	8804030-06C	EPA602	Purgeable Aromatics	E602
1E	04-18	N	8804029-04C	F_SIE	Fluoride	E340.2
1E	04-18	N	8804029-04B	HG_C	Metals	E245.1
1E	04-18	N	8804029-04B	ICP200	Metal Screen (ICP)	E200.7
1E	04-18	N	8804029-04A	NO3	Nitrate	E353.2
1E	04-18	N	8804029-04D	ONG_IR	Oil & Grease	E413.2
1E	04-18	N	8804029-04C	OPO4	Orthophosphate	E365.4
1E	04-18	N	8804029-04B	PB_G	Metals	E239.2
1E	04-18	N	8804029-04B	SE_G	Metals	E270.2
1E	04-18	N	8804029-04C	SO4_N	Sulfate	E375.4
1E	04-18	N	8804029-04C	TDS	Total Dissolved Solids	E160.1
1E	04-18	N	8804030-12A	XYLENE	Purgeable Aromatics	E602
1E	04-18	N	8804030-06C	XYLENE	Purgeable Aromatics	E602
1E	04-20	D	8804029-06B	AS_G	Metals	E206.2
1E	04-20	D	S804038-02A	CL_625	Extractable Priority Pollutants	E625
1E	04-20	D	8804029-06C	CL_T	Chloride	E325.3
1E	04-20	D	8804030-08A	EPA601	Purgeable Halocarbons	E601

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
1E	04-20	D	8804030-08C	EPA602	Purgeable Aromatics	E602
1E	04-20	D	8804029-06C	F_SIE	Fluoride	E340.2
1E	04-20	D	8804029-06B	HG_C	Metals	E245.1
1E	04-20	D	8804029-06B	ICP200	Metal Screen (ICP)	E200.7
1E	04-20	D	8804029-06A	NO3	Nitrate	E353.2
1E	04-20	D	8804029-06D	ONG_IR	Oil & Grease	E413.2
1E	04-20	D	8804029-06C	OPO4	Orthophosphate	E365.4
1E	04-20	D	8804029-06B	PB_G	Metals	E239.2
1E	04-20	D	8804029-06B	SE_G	Metals	E270.2
1E	04-20	D	8804029-06C	SO4_N	Sulfate	E375.4
1E	04-20	D	8804029-06C	TDS	Total Dissolved Solids	E160.1
1E	04-20	D	8804030-08C	XYLENE	Purgeable Aromatics	E602
1E	Car8-02-031	SN	S802056-01A	CL8240	Volatile Organic Compounds	SW8240
1E	Car8-02-032	SN	S802056-02A	CL8270	Semivolatile Organic Compounds	SW8270
1E	Car8-02-032	SN	S802056-02A	DRY_WT	Soil Moisture	UNK
1E	Car8-02-033	SN	8802084-01A	AS_G	Metals	E206.2
1E	Car8-02-033	SN	8802084-01A	HG_C	Metals	E245.1
1E	Car8-02-033	SN	8802084-01A	ICP200	Metal Screen (ICP)	E200.7
1E	Car8-02-033	SN	8802084-01A	ONG_IR	Oil & Grease	E413.2
1E	Car8-02-033	SN	8802084-01A	SE_G	Metals	E270.2
1E	Car8-02-034	SN	S802056-03A	CL8240	Volatile Organic Compounds	SW8240
1E	Car8-02-035	SN	S802056-04A	CL8270	Semivolatile Organic Compounds	SW8270
1E	Car8-02-035	SN	S802056-04A	DRY_WT	Soil Moisture	UNK
1E	Car8-02-036	SN	8802084-02A	AS_G	Metals	E206.2
1E	Car8-02-036	SN	8802084-02A	HG_C	Metals	E245.1
1E	Car8-02-036	SN	8802084-02A	ICP200	Metal Screen (ICP)	E200.7
1E	Car8-02-036	SN	8802084-02A	ONG_IR	Oil & Grease	E413.2
1E	Car8-02-036	SN	8802084-02A	SE_G	Metals	E270.2
1F	02-162	N	8802191-08D	AS_G	Metals	E206.2
1F	02-162	N	8802191-08E	CL_T	Chloride	E325.3
1F	02-162	N	8802190-08A	EPA601	Purgeable Halocarbons	E601
1F	02-162	N	8802190-08C	EPA602	Purgeable Aromatics	E602
1F	02-162	N	8802190-14A	EPA602	Purgeable Aromatics	E602
1F	02-162	N	8802191-08E	F_SIE	Fluoride	E340.2
1F	02-162	N	8802191-08D	HG_C	Metals	E245.1
1F	02-162	N	8802191-08D	ICP200	Metal Screen (ICP)	E200.7
1F	02-162	N	8802191-08B	NO2NO3	Nitrate	E353.1
1F	02-162	N	8802191-08C	ONG_IR	Oil & Grease	E413.2
1F	02-162	N	8802191-08E	OPO4	Orthophosphate	E365.4
1F	02-162	N	8802191-08D	PB_G	Metals	E239.2
1F	02-162	N	8802191-08D	SE_G	Metals	E270.2
1F	02-162	N	8802191-08E	SO4_N	Sulfate	E375.4
1F	02-162	N	8802191-08E	TDS	Total Dissolved Solids	E160.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
1F	02-162	N	8802190-08C	XYLENE	Purgeable Aromatics	E602
1F	02-162	N	8802190-14A	XYLENE	Purgeable Aromatics	E602
1F	04-19	N	8804029-05B	AS_G	Metals	E206.2
1F	04-19	N	8804029-05C	CL_T	Chloride	E325.3
1F	04-19	N	8804030-07A	EPA601	Purgeable Halocarbons	E601
1F	04-19	N	8804030-13A	EPA602	Purgeable Aromatics	E602
1F	04-19	N	8804030-07C	EPA602	Purgeable Aromatics	E602
1F	04-19	N	8804029-05C	F_SIE	Fluoride	E340.2
1F	04-19	N	8804029-05B	HG_C	Metals	E245.1
1F	04-19	N	8804029-05B	ICP200	Metal Screen (ICP)	E200.7
1F	04-19	N	8804029-05A	NO3	Nitrate	E353.2
1F	04-19	N	8804029-05D	ONG_IR	Oil & Grease	E413.2
1F	04-19	N	8804029-05C	OPO4	Orthophosphate	E365.4
1F	04-19	N	8804029-05B	PB_G	Metals	E239.2
1F	04-19	N	8804029-05B	SE_G	Metals	E270.2
1F	04-19	N	8804029-05C	SO4_N	Sulfate	E375.4
1F	04-19	N	8804029-05C	TDS	Total Dissolved Solids	E160.1
1F	04-19	N	8804030-07C	XYLENE	Purgeable Aromatics	E602
1F	04-19	N	8804030-13A	XYLENE	Purgeable Aromatics	E602
1F	04-21	ER	8804040-01B	AS_G	Metals	E206.2
1F	04-21	ER	8804040-01C	CL_T	Chloride	E325.3
1F	04-21	ER	8804041-01A	EPA601	Purgeable Halocarbons	E601
1F	04-21	ER	8804041-01C	EPA602	Purgeable Aromatics	E602
1F	04-21	ER	8804041-08A	EPA602	Purgeable Aromatics	E602
1F	04-21	ER	8804040-01C	F_SIE	Fluoride	E340.2
1F	04-21	ER	8804040-01B	HG_C	Metals	E245.1
1F	04-21	ER	8804040-01B	ICP200	Metal Screen (ICP)	E200.7
1F	04-21	ER	8804040-01A	NO3	Nitrate	E353.2
1F	04-21	ER	8804040-01D	ONG_IR	Oil & Grease	E413.2
1F	04-21	ER	8804040-01C	OPO4	Orthophosphate	E365.4
1F	04-21	ER	8804040-01B	PB_G	Metals	E239.2
1F	04-21	ER	8804040-01B	SE_G	Metals	E270.2
1F	04-21	ER	8804040-01C	SO4_N	Sulfate	E375.4
1F	04-21	ER	8804041-01C	XYLENE	Purgeable Aromatics	E602
1F	04-21	ER	8804041-08A	XYLENE	Purgeable Aromatics	E602
1F	Car8-02-037	SN	S802056-05A	CL8240	Volatile Organic Compounds	SW8240
1F	Car8-02-038	SN	S802056-06A	CL8270	Semivolatile Organic Compounds	SW8270
1F	Car8-02-038	SN	S802056-06A	DRY_WT	Soil Moisture	UNK
1F	Car8-02-039	SN	8802084-03A	AS_G	Metals	E206.2
1F	Car8-02-039	SN	8802084-03A	HG_C	Metals	E245.1
1F	Car8-02-039	SN	8802084-03A	ICP200	Metal Screen (ICP)	E200.7
1F	Car8-02-039	SN	8802084-03A	ONG_IR	Oil & Grease	E413.2
1F	Car8-02-039	SN	8802084-03A	SE_G	Metals	E270.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
1F	Car8-02-040	SN	S802056-07A	CL8240	Volatile Organic Compounds	SW8240
1F	Car8-02-041	SN	S802056-08A	CL8270	Semivolatile Organic Compounds	SW8270
1F	Car8-02-041	SN	S802056-08A	DRY_WT	Soil Moisture	UNK
1F	Car8-02-042	SN	8802084-04A	AS_G	Metals	E206.2
1F	Car8-02-042	SN	8802084-04A	HG_C	Metals	E245.1
1F	Car8-02-042	SN	8802084-04A	ICP200	Metal Screen (ICP)	E200.7
1F	Car8-02-042	SN	8802084-04A	ONG_IR	Oil & Grease	E413.2
1F	Car8-02-042	SN	8802084-04A	SE_G	Metals	E270.2
3A	Car8-01-001	SN	S801166-01A	CL8240	Volatile Organic Compounds	SW8240
3A	Car8-01-002	SN	S801166-02A	CL8270	Semivolatile Organic Compounds	SW8270
3A	Car8-01-002	SN	S801166-02A	DRY_WT	Soil Moisture	UNK
3A	Car8-01-003	SN	8801151-01A	AS_G	Metals	E206.2
3A	Car8-01-003	SN	8801151-01A	HG_C	Metals	E245.1
3A	Car8-01-003	SN	8801151-01A	ICP200	Metal Screen (ICP)	E200.7
3A	Car8-01-003	SN	8801151-01A	ONG_IR	Oil & Grease	E413.2
3A	Car8-01-003	SN	8801151-01A	SE_G	Metals	E270.2
3B	Car8-01-004	SN	S801166-03A	CL8240	Volatile Organic Compounds	SW8240
3B	Car8-01-005	SN	S801166-04A	CL8270	Semivolatile Organic Compounds	SW8270
3B	Car8-01-005	SN	S801166-04A	DRY_WT	Soil Moisture	UNK
3B	Car8-01-006	SN	8801151-02A	AS_G	Metals	E206.2
3B	Car8-01-006	SN	8801151-02A	HG_C	Metals	E245.1
3B	Car8-01-006	SN	8801151-02A	ICP200	Metal Screen (ICP)	E200.7
3B	Car8-01-006	SN	8801151-02A	ONG_IR	Oil & Grease	E413.2
3B	Car8-01-006	SN	8801151-02A	SE_G	Metals	E270.2
3C	Car8-01-007	SN	S801166-05A	CL8240	Volatile Organic Compounds	SW8240
3C	Car8-01-008	SN	S801166-06A	CL8270	Semivolatile Organic Compounds	SW8270
3C	Car8-01-008	SN	S801166-06A	DRY_WT	Soil Moisture	UNK
3C	Car8-01-009	SN	8801151-03A	AS_G	Metals	E206.2
3C	Car8-01-009	SN	8801151-03A	HG_C	Metals	E245.1
3C	Car8-01-009	SN	8801151-03A	ICP200	Metal Screen (ICP)	E200.7
3C	Car8-01-009	SN	8801151-03A	ONG_IR	Oil & Grease	E413.2
3C	Car8-01-009	SN	8801151-03A	SE_G	Metals	E270.2
3D	02-150	N	S802090-01D	509B	Chlorinated Phenoxy Acid Herbicides	A509B
3D	02-150	N	S802090-01A	604	Phenols	E604
3D	02-150	N	S802090-01B	608	Organochlorine Pesticides	E608
3D	02-150	N	8802136-01G	AS_G	Metals	E206.2
3D	02-150	N	S802090-01C	CL_625	Extractable Priority Pollutants	E625
3D	02-150	N	8802136-01J	CL_T	Chloride	E325.3
3D	02-150	N	8802136-06A	EPA601	Purgeable Halocarbons	E601
3D	02-150	N	8802136-01A	EPA601	Purgeable Halocarbons	E601
3D	02-150	N	8802136-01C	EPA602	Purgeable Aromatics	E602
3D	02-150	N	8802136-01J	F_SIE	Fluoride	E340.2
3D	02-150	N	8802136-01H	HC_IR	Petroleum Hydrocarbons	E418.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
3D	02-150	N	8802136-01G	HG_C	Metals	E245.1
3D	02-150	N	8802136-01G	ICP200	Metal Screen (ICP)	E200.7
3D	02-150	N	8802136-01F	NO3	Nitrate	E353.2
3D	02-150	N	8802136-01I	ONG_IR	Oil & Grease	E413.2
3D	02-150	N	8802136-01J	OPO4	Orthophosphate	E365.4
3D	02-150	N	8802136-01G	PB_G	Metals	E239.2
3D	02-150	N	8802136-01G	SE_G	Metals	E270.2
3D	02-150	N	8802136-01J	SO4_N	Sulfate	E375.4
3D	02-150	N	8802136-01J	TDS	Total Dissolved Solids	E160.1
3D	02-150	N	8802136-01C	XYLENE	Purgeable Aromatics	E602
3D	03-44		8803042-06A	ONG_IR	Oil & Grease	E413.2
3D	04-01	N	S804017-01G	509B	Chlorinated Phenoxy Acid Herbicides	A509B
3D	04-01	N	S804017-01C	604	Phenols	E604
3D	04-01	N	S804017-01E	608	Organochlorine Pesticides	E608
3D	04-01	N	8804014-01G	AS_G	Metals	E206.2
3D	04-01	N	S804017-01A	CL_625	Extractable Priority Pollutants	E625
3D	04-01	N	8804014-01F	CL_T	Chloride	E325.3
3D	04-01	N	8804014-05A	EPA601	Purgeable Halocarbons	E601
3D	04-01	N	8804014-01A	EPA601	Purgeable Halocarbons	E601
3D	04-01	N	8804014-01C	EPA602	Purgeable Aromatics	E602
3D	04-01	N	8804014-05A	EPA602	Purgeable Aromatics	E602
3D	04-01	N	8804014-01F	F_SIE	Fluoride	E340.2
3D	04-01	N	8804016-01A	HC_IR	Petroleum Hydrocarbons	E418.1
3D	04-01	N	8804014-01G	HG_C	Metals	E245.1
3D	04-01	N	8804014-01G	ICP200	Metal Screen (ICP)	E200.7
3D	04-01	N	8804014-01E	NO3	Nitrate	E353.2
3D	04-01	N	8804077-01A	ONG_IR	Oil & Grease	E413.2
3D	04-01	N	8804014-01F	OPO4	Orthophosphate	E365.4
3D	04-01	N	8804014-01G	PB_G	Metals	E239.2
3D	04-01	N	8804014-01G	SE_G	Metals	E270.2
3D	04-01	N	8804014-01F	SO4_N	Sulfate	E375.4
3D	04-01	N	8804014-01F	TDS	Total Dissolved Solids	E160.1
3D	04-01	N	8804014-01C	XYLENE	Purgeable Aromatics	E602
3D	04-01	N	8804014-05A	XYLENE	Purgeable Aromatics	E602
3D	Car8-01-010	SN	S801166-07A	CL8240	Volatile Organic Compounds	SW8240
3D	Car8-01-011	SN	S801166-08A	CL8270	Semivolatile Organic Compounds	SW8270
3D	Car8-01-011	SN	S801166-08A	DRY_WT	Soil Moisture	UNK
3D	Car8-01-012	SN	8801151-04A	AS_G	Metals	E206.2
3D	Car8-01-012	SN	8801151-04A	HG_C	Metals	E245.1
3D	Car8-01-012	SN	8801151-04A	ICP200	Metal Screen (ICP)	E200.7
3D	Car8-01-012	SN	8801151-04A	ONG_IR	Oil & Grease	E413.2
3D	Car8-01-012	SN	8801151-04A	SE_G	Metals	E270.2
3E	Car8-01-013	SN	S801166-09A	CL8240	Volatile Organic Compounds	SW8240

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
3E	Car8-01-014	SN	S801166-10A	CL8270	Semivolatile Organic Compounds	SW8270
3E	Car8-01-014	SN	S801166-10A	DRY_WT	Soil Moisture	UNK
3E	Car8-01-015	SN	8801151-05A	AS_G	Metals	E206.2
3E	Car8-01-015	SN	8801151-05A	HG_C	Metals	E245.1
3E	Car8-01-015	SN	8801151-05A	ICP200	Metal Screen (ICP)	E200.7
3E	Car8-01-015	SN	8801151-05A	ONG_IR	Oil & Grease	E413.2
3E	Car8-01-015	SN	8801151-05A	SE_G	Metals	E270.2
4A	02-157	N	8802191-04C	AS_G	Metals	E206.2
4A	02-157	N	8802191-04D	CL_T	Chloride	E325.3
4A	02-157	N	8802190-12A	EPA601	Purgeable Halocarbons	E601
4A	02-157	N	8802190-04A	EPA601	Purgeable Halocarbons	E601
4A	02-157	N	8802190-12A	EPA602	Purgeable Aromatics	E602
4A	02-157	N	8802190-04C	EPA602	Purgeable Aromatics	E602
4A	02-157	N	8802191-04D	F_SIE	Fluoride	E340.2
4A	02-157	N	8802191-04C	HG_C	Metals	E245.1
4A	02-157	N	8802191-04C	ICP200	Metal Screen (ICP)	E200.7
4A	02-157	N	8802191-04B	NO2NO3	Nitrate	E353.1
4A	02-157	N	8802191-04D	OPO4	Orthophosphate	E365.4
4A	02-157	N	8802191-04C	PB_G	Metals	E239.2
4A	02-157	N	8802191-04C	SE_G	Metals	E270.2
4A	02-157	N	8802191-04D	SO4_N	Sulfate	E375.4
4A	02-157	N	8802191-04D	TDS	Total Dissolved Solids	E160.1
4A	02-157	N	8802190-04C	XYLENE	Purgeable Aromatics	E602
4A	02-157	N	8802190-12A	XYLENE	Purgeable Aromatics	E602
4A	04-06	N	8804016-04C	AS_G	Metals	E206.2
4A	04-06	N	S804030-02A	CL_625	Extractable Priority Pollutants	E625
4A	04-06	N	8804016-04A	CL_T	Chloride	E325.3
4A	04-06	N	8804017-12A	EPA601	Purgeable Halocarbons	E601
4A	04-06	N	8804017-03A	EPA601	Purgeable Halocarbons	E601
4A	04-06	N	8804017-03C	EPA602	Purgeable Aromatics	E602
4A	04-06	N	8804016-04A	F_SIE	Fluoride	E340.2
4A	04-06	N	8804016-04C	HG_C	Metals	E245.1
4A	04-06	N	8804016-04C	ICP200	Metal Screen (ICP)	E200.7
4A	04-06	N	8804016-04B	NO3	Nitrate	E353.2
4A	04-06	N	8804016-04A	OPO4	Orthophosphate	E365.4
4A	04-06	N	8804016-04C	SE_G	Metals	E270.2
4A	04-06	N	8804016-04A	SO4_N	Sulfate	E375.4
4A	04-06	N	8804016-04A	TDS	Total Dissolved Solids	E160.1
4A	04-06	N	8804017-03C	XYLENE	Purgeable Aromatics	E602
4A	04-07	TB	8804017-04A	EPA601	Purgeable Halocarbons	E601
4A	04-07	TB	8804017-13A	EPA602	Purgeable Aromatics	E602
4A	04-07	TB	8804017-04C	EPA602	Purgeable Aromatics	E602
4A	04-07	TB	8804017-04C	XYLENE	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
4A	04-07	TB	8804017-13A	XYLENE	Purgeable Aromatics	E602
4A	04-08	FB	8804017-05A	EPA601	Purgeable Halocarbons	E601
4A	04-08	FB	8804017-14A	EPA602	Purgeable Aromatics	E602
4A	04-08	FB	8804017-05C	EPA602	Purgeable Aromatics	E602
4A	04-08	FB	8804017-05C	XYLENE	Purgeable Aromatics	E602
4A	04-08	FB	8804017-14A	XYLENE	Purgeable Aromatics	E602
4B	02-156	N	8802191-03C	AS_G	Metals	E206.2
4B	02-156	N	S802099-02A	CL_625	Extractable Priority Pollutants	E625
4B	02-156	N	8802191-03D	CL_T	Chloride	E325.3
4B	02-156	N	8802190-03A	EPA601	Purgeable Halocarbons	E601
4B	02-156	N	8802190-03C	EPA602	Purgeable Aromatics	E602
4B	02-156	N	8802191-03D	F_SIE	Fluoride	E340.2
4B	02-156	N	8802191-03C	HG_C	Metals	E245.1
4B	02-156	N	8802191-03C	ICP200	Metal Screen (ICP)	E200.7
4B	02-156	N	8802191-03B	NO2NO3	Nitrate	E353.1
4B	02-156	N	8802191-03D	OPO4	Orthophosphate	E365.4
4B	02-156	N	8802191-03C	PB_G	Metals	E239.2
4B	02-156	N	8802191-03C	SE_G	Metals	E270.2
4B	02-156	N	8802191-03D	SO4_N	Sulfate	E375.4
4B	02-156	N	8802191-03D	TDS	Total Dissolved Solids	E160.1
4B	02-156	N	8802190-03C	XYLENE	Purgeable Aromatics	E602
4B	04-09	N	8804016-05C	AS_G	Metals	E206.2
4B	04-09	N	8804016-05A	CL_T	Chloride	E325.3
4B	04-09	N	8804017-06A	EPA601	Purgeable Halocarbons	E601
4B	04-09	N	8804017-06C	EPA602	Purgeable Aromatics	E602
4B	04-09	N	8804016-05A	F_SIE	Fluoride	E340.2
4B	04-09	N	8804016-05C	HG_C	Metals	E245.1
4B	04-09	N	8804016-05C	ICP200	Metal Screen (ICP)	E200.7
4B	04-09	N	8804016-05B	NO3	Nitrate	E353.2
4B	04-09	N	8804016-05A	OPO4	Orthophosphate	E365.4
4B	04-09	N	8804016-05C	SE_G	Metals	E270.2
4B	04-09	N	8804016-05A	SO4_N	Sulfate	E375.4
4B	04-09	N	8804016-05A	TDS	Total Dissolved Solids	E160.1
4B	04-09	N	8804017-06C	XYLENE	Purgeable Aromatics	E602
4B	04-10	ER	8804016-06C	AS_G	Metals	E206.2
4B	04-10	ER	8804016-06A	CL_T	Chloride	E325.3
4B	04-10	ER	8804017-07A	EPA601	Purgeable Halocarbons	E601
4B	04-10	ER	8804017-15A	EPA602	Purgeable Aromatics	E602
4B	04-10	ER	8804017-07C	EPA602	Purgeable Aromatics	E602
4B	04-10	ER	8804016-06A	F_SIE	Fluoride	E340.2
4B	04-10	ER	8804016-06C	HG_C	Metals	E245.1
4B	04-10	ER	8804016-06C	ICP200	Metal Screen (ICP)	E200.7
4B	04-10	ER	8804016-06B	NO3	Nitrate	E353.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
4B	04-10	ER	8804016-06A	OPO4	Orthophosphate	E365.4
4B	04-10	ER	8804016-06C	SE_G	Metals	E270.2
4B	04-10	ER	8804016-06A	SO4_N	Sulfate	E375.4
4B	04-10	ER	8804016-06A	TDS	Total Dissolved Solids	E160.1
4B	04-10	ER	8804017-07C	XYLENE	Purgeable Aromatics	E602
4B	04-10	ER	8804017-15A	XYLENE	Purgeable Aromatics	E602
4C	02-164	N	8803006-01C	AS_G	Metals	E206.2
4C	02-164	N	8803006-01D	CL_T	Chloride	E325.3
4C	02-164	N	8803005-01A	EPA601	Purgeable Halocarbons	E601
4C	02-164	N	8803005-08A	EPA601	Purgeable Halocarbons	E601
4C	02-164	N	8803005-01C	EPA602	Purgeable Aromatics	E602
4C	02-164	N	8803006-01D	F_SIE	Fluoride	E340.2
4C	02-164	N	8803006-01C	HG_C	Metals	E245.1
4C	02-164	N	8803006-01C	ICP200	Metal Screen (ICP)	E200.7
4C	02-164	N	8803006-01B	NO2NO3	Nitrate	E353.1
4C	02-164	N	8803006-01D	OPO4	Orthophosphate	E365.4
4C	02-164	N	8803006-01C	PB_G	Metals	E239.2
4C	02-164	N	8803006-01C	SE_G	Metals	E270.2
4C	02-164	N	8803006-01D	SO4_N	Sulfate	E375.4
4C	02-164	N	8803006-01D	TDS	Total Dissolved Solids	E160.1
4C	02-164	N	8803005-01C	XYLENE	Purgeable Aromatics	E602
4C	04-26	N	8804040-06B	AS_G	Metals	E206.2
4C	04-26	N	8804040-06C	CL_T	Chloride	E325.3
4C	04-26	N	8804041-06A	EPA601	Purgeable Halocarbons	E601
4C	04-26	N	8804041-12A	EPA601	Purgeable Halocarbons	E601
4C	04-26	N	8804041-06C	EPA602	Purgeable Aromatics	E602
4C	04-26	N	8804041-12A	EPA602	Purgeable Aromatics	E602
4C	04-26	N	8804040-06C	F_SIE	Fluoride	E340.2
4C	04-26	N	8804040-06B	HG_C	Metals	E245.1
4C	04-26	N	8804040-06B	ICP200	Metal Screen (ICP)	E200.7
4C	04-26	N	8804040-06A	NO3	Nitrate	E353.2
4C	04-26	N	8804040-06C	OPO4	Orthophosphate	E365.4
4C	04-26	N	8804040-06B	SE_G	Metals	E270.2
4C	04-26	N	8804040-06C	SO4_N	Sulfate	E375.4
4C	04-26	N	8804040-06C	TDS	Total Dissolved Solids	E160.1
4C	04-26	N	8804041-06C	XYLENE	Purgeable Aromatics	E602
4C	04-26	N	8804041-12A	XYLENE	Purgeable Aromatics	E602
4D	03-33		8803041-03A	AS_G	Metals	E206.2
4D	03-33		8803041-03B	CL_T	Chloride	E325.3
4D	03-33		8803040-03A	EPA601	Purgeable Halocarbons	E601
4D	03-33		8803040-03C	EPA602	Purgeable Aromatics	E602
4D	03-33		8803041-03B	F_SIE	Fluoride	E340.2
4D	03-33		8803041-03A	HG_C	Metals	E245.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
4D	03-33		8803041-03A	ICP200	Metal Screen (ICP)	E200.7
4D	03-33		8803041-03C	NO2NO3	Nitrate	E353.1
4D	03-33		8803041-03B	OPO4	Orthophosphate	E365.4
4D	03-33		8803041-03A	SE_G	Metals	E270.2
4D	03-33		8803041-03B	SO4_N	Sulfate	E375.4
4D	03-33		8803041-03B	TDS	Total Dissolved Solids	E160.1
4D	03-33		8803040-03C	XYLENE	Purgeable Aromatics	E602
4D	04-36	N	8804056-01C	AS_G	Metals	E206.2
4D	04-36	N	8804056-01A	CL_T	Chloride	E325.3
4D	04-36	N	8805006-01A	EPA601	Purgeable Halocarbons	E601
4D	04-36	N	8804057-01A	EPA601	Purgeable Halocarbons	E601
4D	04-36	N	8804057-01C	EPA602	Purgeable Aromatics	E602
4D	04-36	N	8804056-01A	F_SIE	Fluoride	E340.2
4D	04-36	N	8804056-01C	HG_C	Metals	E245.1
4D	04-36	N	8804056-01C	ICP200	Metal Screen (ICP)	E200.7
4D	04-36	N	8804056-01B	NO2NO3	Nitrate	E353.1
4D	04-36	N	8804056-01A	OPO4	Orthophosphate	E365.4
4D	04-36	N	8804056-01C	SE_G	Metals	E270.2
4D	04-36	N	8804056-01A	SO4_N	Sulfate	E375.4
4D	04-36	N	8804056-01A	TDS	Total Dissolved Solids	E160.1
4D	04-36	N	8804057-01C	XYLENE	Purgeable Aromatics	E602
4D	04-37	ER	8804056-02C	AS_G	Metals	E206.2
4D	04-37	ER	8804056-02A	CL_T	Chloride	E325.3
4D	04-37	ER	8805006-02A	EPA601	Purgeable Halocarbons	E601
4D	04-37	ER	8804057-02A	EPA601	Purgeable Halocarbons	E601
4D	04-37	ER	8804057-02C	EPA602	Purgeable Aromatics	E602
4D	04-37	ER	8805006-02A	EPA602	Purgeable Aromatics	E602
4D	04-37	ER	8804056-02A	F_SIE	Fluoride	E340.2
4D	04-37	ER	8804056-02C	HG_C	Metals	E245.1
4D	04-37	ER	8804056-02C	ICP200	Metal Screen (ICP)	E200.7
4D	04-37	ER	8804056-02B	NO2NO3	Nitrate	E353.1
4D	04-37	ER	8804056-02A	OPO4	Orthophosphate	E365.4
4D	04-37	ER	8804056-02C	SE_G	Metals	E270.2
4D	04-37	ER	8804056-02A	SO4_N	Sulfate	E375.4
4D	04-37	ER	8804056-02A	TDS	Total Dissolved Solids	E160.1
4D	04-37	ER	8805006-02A	XYLENE	Purgeable Aromatics	E602
4D	04-37	ER	8804057-02C	XYLENE	Purgeable Aromatics	E602
4E	03-31		8803041-01A	AS_G	Metals	E206.2
4E	03-31		8803041-01B	CL_T	Chloride	E325.3
4E	03-31		8803040-01A	EPA601	Purgeable Halocarbons	E601
4E	03-31		8803040-01C	EPA602	Purgeable Aromatics	E602
4E	03-31		8803041-01B	F_SIE	Fluoride	E340.2
4E	03-31		8803041-01A	HG_C	Metals	E245.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
4E	03-31		8803041-01A	ICP200	Metal Screen (ICP)	E200.7
4E	03-31		8803041-01C	NO2NO3	Nitrate	E353.1
4E	03-31		8803041-01B	OPO4	Orthophosphate	E365.4
4E	03-31		8803041-01A	SE_G	Metals	E270.2
4E	03-31		8803041-01B	SO4_N	Sulfate	E375.4
4E	03-31		8803041-01B	TDS	Total Dissolved Solids	E160.1
4E	03-31		8803040-01C	XYLENE	Purgeable Aromatics	E602
4E	03-32		8803041-02A	AS_G	Metals	E206.2
4E	03-32		8803041-02B	CL_T	Chloride	E325.3
4E	03-32		8803040-02A	EPA601	Purgeable Halocarbons	E601
4E	03-32		8803040-02C	EPA602	Purgeable Aromatics	E602
4E	03-32		8803041-02B	F_SIE	Fluoride	E340.2
4E	03-32		8803041-02A	HG_C	Metals	E245.1
4E	03-32		8803041-02A	ICP200	Metal Screen (ICP)	E200.7
4E	03-32		8803041-02C	NO2NO3	Nitrate	E353.1
4E	03-32		8803041-02B	OPO4	Orthophosphate	E365.4
4E	03-32		8803041-02A	SE_G	Metals	E270.2
4E	03-32		8803041-02B	SO4_N	Sulfate	E375.4
4E	03-32		8803041-02B	TDS	Total Dissolved Solids	E160.1
4E	03-32		8803040-02C	XYLENE	Purgeable Aromatics	E602
4E	04-35	N	8804046-05C	AS_G	Metals	E206.2
4E	04-35	N	8804046-05A	CL_T	Chloride	E325.3
4E	04-35	N	8804045-09A	EPA601	Purgeable Halocarbons	E601
4E	04-35	N	8804076-09A	EPA601	Purgeable Halocarbons	E601
4E	04-35	N	8804045-09C	EPA602	Purgeable Aromatics	E602
4E	04-35	N	8804046-05A	F_SIE	Fluoride	E340.2
4E	04-35	N	8804046-05C	HG_C	Metals	E245.1
4E	04-35	N	8804046-05C	ICP200	Metal Screen (ICP)	E200.7
4E	04-35	N	8804046-05B	NO3	Nitrate	E353.2
4E	04-35	N	8804046-05A	OPO4	Orthophosphate	E365.4
4E	04-35	N	8804046-05C	SE_G	Metals	E270.2
4E	04-35	N	8804046-05A	SO4_N	Sulfate	E375.4
4E	04-35	N	8804046-05A	TDS	Total Dissolved Solids	E160.1
4E	04-35	N	8804045-09C	XYLENE	Purgeable Aromatics	E602
4F	04-38	N	8804056-03C	AS_G	Metals	E206.2
4F	04-38	N	8804056-03A	CL_T	Chloride	E325.3
4F	04-38	N	8804057-03A	EPA601	Purgeable Halocarbons	E601
4F	04-38	N	8805006-03A	EPA601	Purgeable Halocarbons	E601
4F	04-38	N	8804057-03C	EPA602	Purgeable Aromatics	E602
4F	04-38	N	8804056-03A	F_SIE	Fluoride	E340.2
4F	04-38	N	8804056-03C	HG_C	Metals	E245.1
4F	04-38	N	8804056-03C	ICP200	Metal Screen (ICP)	E200.7
4F	04-38	N	8804056-03B	NO2NO3	Nitrate	E353.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
4F	04-42	ER	8804057-07C	XYLENE	Purgeable Aromatics	E602
4F	04-42	ER	8805006-07A	XYLENE	Purgeable Aromatics	E602
4F	Car8-02-025	SD	S802040-11A	CL8240	Volatile Organic Compounds	SW8240
4F	Car8-02-026	SD	S802040-12A	CL8240	Volatile Organic Compounds	SW8240
4F	Car8-02-027	SD	S802040-13A	CL8270	Semivolatile Organic Compounds	SW8270
4F	Car8-02-027	SD	S802040-13A	DRY_WT	Soil Moisture	UNK
4F	Car8-02-028	SD	S802040-14A	CL8270	Semivolatile Organic Compounds	SW8270
4F	Car8-02-028	SD	S802040-14A	DRY_WT	Soil Moisture	UNK
4F	Car8-02-029	SD	8802072-06A	AS_G	Metals	E206.2
4F	Car8-02-029	SD	8802072-06A	HG_C	Metals	E245.1
4F	Car8-02-029	SD	8802072-06A	ICP200	Metal Screen (ICP)	E200.7
4F	Car8-02-029	SD	8802072-06A	ONG_IR	Oil & Grease	E413.2
4F	Car8-02-029	SD	8802072-06A	SE_G	Metals	E270.2
4F	Car8-02-030	SD	8802072-07A	AS_G	Metals	E206.2
4F	Car8-02-030	SD	8802072-07A	HG_C	Metals	E245.1
4F	Car8-02-030	SD	8802072-07A	ICP200	Metal Screen (ICP)	E200.7
4F	Car8-02-030	SD	8802072-07A	ONG_IR	Oil & Grease	E413.2
4F	Car8-02-030	SD	8802072-07A	SE_G	Metals	E270.2
4G	02-166	N	8803006-03C	AS_G	Metals	E206.2
4G	02-166	N	8803006-03D	CL_T	Chloride	E325.3
4G	02-166	N	8803005-03A	EPA601	Purgeable Halocarbons	E601
4G	02-166	N	8803005-10A	EPA601	Purgeable Halocarbons	E601
4G	02-166	N	8803005-03C	EPA602	Purgeable Aromatics	E602
4G	02-166	N	8803006-03D	F_SIE	Fluoride	E340.2
4G	02-166	N	8803006-03C	HG_C	Metals	E245.1
4G	02-166	N	8803006-03C	ICP200	Metal Screen (ICP)	E200.7
4G	02-166	N	8803006-03B	NO2NO3	Nitrate	E353.1
4G	02-166	N	8803006-03D	OPO4	Orthophosphate	E365.4
4G	02-166	N	8803006-03C	PB_G	Metals	E239.2
4G	02-166	N	8803006-03C	SE_G	Metals	E270.2
4G	02-166	N	8803006-03D	SO4_N	Sulfate	E375.4
4G	02-166	N	8803006-03D	TDS	Total Dissolved Solids	E160.1
4G	02-166	N	8803005-03C	XYLENE	Purgeable Aromatics	E602
4G	02-167	D	8803006-04C	AS_G	Metals	E206.2
4G	02-167	D	8803006-04D	CL_T	Chloride	E325.3
4G	02-167	D	8803005-04A	EPA601	Purgeable Halocarbons	E601
4G	02-167	D	8803005-11A	EPA601	Purgeable Halocarbons	E601
4G	02-167	D	8803005-11A	EPA602	Purgeable Aromatics	E602
4G	02-167	D	8803005-04C	EPA602	Purgeable Aromatics	E602
4G	02-167	D	8803006-04D	F_SIE	Fluoride	E340.2
4G	02-167	D	8803006-04C	HG_C	Metals	E245.1
4G	02-167	D	8803006-04C	ICP200	Metal Screen (ICP)	E200.7
4G	02-167	D	8803006-04B	NO2NO3	Nitrate	E353.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
4G	02-167	D	8803006-04D	OPO4	Orthophosphate	E365.4
4G	02-167	D	8803006-04C	PB_G	Metals	E239.2
4G	02-167	D	8803006-04C	SE_G	Metals	E270.2
4G	02-167	D	8803006-04D	SO4_N	Sulfate	E375.4
4G	02-167	D	8803006-04D	TDS	Total Dissolved Solids	E160.1
4G	02-167	D	8803005-04C	XYLENE	Purgeable Aromatics	E602
4G	02-167	D	8803005-11A	XYLENE	Purgeable Aromatics	E602
4G	04-30	N	8804046-02C	AS_G	Metals	E206.2
4G	04-30	N	8804046-02A	CL_T	Chloride	E325.3
4G	04-30	N	8804076-04A	EPA601	Purgeable Halocarbons	E601
4G	04-30	N	8804045-04A	EPA601	Purgeable Halocarbons	E601
4G	04-30	N	8804045-04C	EPA602	Purgeable Aromatics	E602
4G	04-30	N	8804046-02A	F_SIE	Fluoride	E340.2
4G	04-30	N	8804046-02C	HG_C	Metals	E245.1
4G	04-30	N	8804046-02C	ICP200	Metal Screen (ICP)	E200.7
4G	04-30	N	8804046-02B	NO3	Nitrate	E353.2
4G	04-30	N	8804046-02A	OPO4	Orthophosphate	E365.4
4G	04-30	N	8804046-02C	SE_G	Metals	E270.2
4G	04-30	N	8804046-02A	SO4_N	Sulfate	E375.4
4G	04-30	N	8804046-02A	TDS	Total Dissolved Solids	E160.1
4G	04-30	N	8804045-04C	XYLENE	Purgeable Aromatics	E602
4G	Car8-02-007	SN	S802009-07A	CL8240	Volatile Organic Compounds	SW8240
4G	Car8-02-008	SN	S802009-08A	CL8270	Semivolatile Organic Compounds	SW8270
4G	Car8-02-008	SN	S802009-08A	DRY_WT	Soil Moisture	UNK
4G	Car8-02-009	SN	8802028-04A	AS_G	Metals	E206.2
4G	Car8-02-009	SN	8802028-04A	HG_C	Metals	E245.1
4G	Car8-02-009	SN	8802028-04A	ICP200	Metal Screen (ICP)	E200.7
4G	Car8-02-009	SN	8802028-04A	ONG_IR	Oil & Grease	E413.2
4G	Car8-02-009	SN	8802028-04A	SE_G	Metals	E270.2
4H	02-165	N	8803006-02C	AS_G	Metals	E206.2
4H	02-165	N	8803006-02D	CL_T	Chloride	E325.3
4H	02-165	N	8803005-09A	EPA601	Purgeable Halocarbons	E601
4H	02-165	N	8803005-02A	EPA601	Purgeable Halocarbons	E601
4H	02-165	N	8803005-02C	EPA602	Purgeable Aromatics	E602
4H	02-165	N	8803005-09A	EPA602	Purgeable Aromatics	E602
4H	02-165	N	8803006-02D	F_SIE	Fluoride	E340.2
4H	02-165	N	8803006-02C	HG_C	Metals	E245.1
4H	02-165	N	8803006-02C	ICP200	Metal Screen (ICP)	E200.7
4H	02-165	N	8803006-02B	NO2NO3	Nitrate	E353.1
4H	02-165	N	8803006-02D	OPO4	Orthophosphate	E365.4
4H	02-165	N	8803006-02C	PB_G	Metals	E239.2
4H	02-165	N	8803006-02C	SE_G	Metals	E270.2
4H	02-165	N	8803006-02D	SO4_N	Sulfate	E375.4

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
4H	02-165	N	8803006-02D	TDS	Total Dissolved Solids	E160.1
4H	02-165	N	8803005-02C	XYLENE	Purgeable Aromatics	E602
4H	02-165	N	8803005-09A	XYLENE	Purgeable Aromatics	E602
4H	04-27	N	8804046-01C	AS_G	Metals	E206.2
4H	04-27	N	8804046-01A	CL_T	Chloride	E325.3
4H	04-27	N	8804045-01A	EPA601	Purgeable Halocarbons	E601
4H	04-27	N	8804076-01A	EPA601	Purgeable Halocarbons	E601
4H	04-27	N	8804045-01C	EPA602	Purgeable Aromatics	E602
4H	04-27	N	8804076-01A	EPA602	Purgeable Aromatics	E602
4H	04-27	N	8804046-01A	F_SIE	Fluoride	E340.2
4H	04-27	N	8804046-01C	HG_C	Metals	E245.1
4H	04-27	N	8804046-01C	ICP200	Metal Screen (ICP)	E200.7
4H	04-27	N	8804046-01B	NO3	Nitrate	E353.2
4H	04-27	N	8804046-01A	OPO4	Orthophosphate	E365.4
4H	04-27	N	8804046-01C	SE_G	Metals	E270.2
4H	04-27	N	8804046-01A	SO4_N	Sulfate	E375.4
4H	04-27	N	8804046-01A	TDS	Total Dissolved Solids	E160.1
4H	04-27	N	8804045-01C	XYLENE	Purgeable Aromatics	E602
4H	04-27	N	8804076-01A	XYLENE	Purgeable Aromatics	E602
4H	04-28	TB	8804045-02A	EPA601	Purgeable Halocarbons	E601
4H	04-28	TB	8804045-02C	EPA602	Purgeable Aromatics	E602
4H	04-28	TB	8804076-02A	EPA602	Purgeable Aromatics	E602
4H	04-28	TB	8804045-02C	XYLENE	Purgeable Aromatics	E602
4H	04-28	TB	8804076-02A	XYLENE	Purgeable Aromatics	E602
4H	04-29	FB	8804045-03A	EPA601	Purgeable Halocarbons	E601
4H	04-29	FB	8804076-03A	EPA602	Purgeable Aromatics	E602
4H	04-29	FB	8804045-03C	EPA602	Purgeable Aromatics	E602
4H	04-29	FB	8804076-03A	XYLENE	Purgeable Aromatics	E602
4H	04-29	FB	8804045-03C	XYLENE	Purgeable Aromatics	E602
4H	Car8-02-022	SN	S802040-09A	CL8240	Volatile Organic Compounds	SW8240
4H	Car8-02-023	SN	S802040-10A	CL8270	Semivolatile Organic Compounds	SW8270
4H	Car8-02-023	SN	S802040-10A	DRY_WT	Soil Moisture	UNK
4H	Car8-02-024	SN	8802072-05A	AS_G	Metals	E206.2
4H	Car8-02-024	SN	8802072-05A	HG_C	Metals	E245.1
4H	Car8-02-024	SN	8802072-05A	ICP200	Metal Screen (ICP)	E200.7
4H	Car8-02-024	SN	8802072-05A	ONG_IR	Oil & Grease	E413.2
4H	Car8-02-024	SN	8802072-05A	SE_G	Metals	E270.2
5A	03-16	N	8803031-03C	AS_G	Metals	E206.2
5A	03-16	N	S803014-01A	CL_625	Extractable Priority Pollutants	E625
5A	03-16	N	8803031-03A	CL_T	Chloride	E325.3
5A	03-16	N	8803029-12A	EPA601	Purgeable Halocarbons	E601
5A	03-16	N	8803029-03A	EPA601	Purgeable Halocarbons	E601
5A	03-16	N	8803029-03C	EPA602	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5A	03-16	N	8803031-03A	F_SIE	Fluoride	E340.2
5A	03-16	N	8803031-03C	HG_C	Metals	E245.1
5A	03-16	N	8803031-03C	ICP200	Metal Screen (ICP)	E200.7
5A	03-16	N	8803031-03D	NO2NO3	Nitrate	E353.1
5A	03-16	N	8803031-03A	OPO4	Orthophosphate	E365.4
5A	03-16	N	8803031-03C	PB_G	Metals	E239.2
5A	03-16	N	8803031-03C	SE_G	Metals	E270.2
5A	03-16	N	8803031-03A	SO4_N	Sulfate	E375.4
5A	03-16	N	8803031-03A	TDS	Total Dissolved Solids	E160.1
5A	03-16	N	8803029-03C	XYLENE	Purgeable Aromatics	E602
5A	03-17	TB	8803029-04A	EPA601	Purgeable Halocarbons	E601
5A	03-17	TB	8803029-04C	EPA602	Purgeable Aromatics	E602
5A	03-17	TB	8803029-04C	XYLENE	Purgeable Aromatics	E602
5A	03-18	FB	8803029-13A	EPA601	Purgeable Halocarbons	E601
5A	03-18	FB	8803029-05A	EPA601	Purgeable Halocarbons	E601
5A	03-18	FB	8803029-05C	EPA602	Purgeable Aromatics	E602
5A	03-18	FB	8803029-13A	EPA602	Purgeable Aromatics	E602
5A	03-18	FB	8803029-05C	XYLENE	Purgeable Aromatics	E602
5A	03-18	FB	8803029-13A	XYLENE	Purgeable Aromatics	E602
5A	04-46	N	8804056-09C	AS_G	Metals	E206.2
5A	04-46	N	8804056-09A	CL_T	Chloride	E325.3
5A	04-46	N	8804057-11A	EPA601	Purgeable Halocarbons	E601
5A	04-46	N	8805006-10A	EPA601	Purgeable Halocarbons	E601
5A	04-46	N	8804057-11C	EPA602	Purgeable Aromatics	E602
5A	04-46	N	8804056-09A	F_SIE	Fluoride	E340.2
5A	04-46	N	8804056-09C	HG_C	Metals	E245.1
5A	04-46	N	8804056-09C	ICP200	Metal Screen (ICP)	E200.7
5A	04-46	N	8804056-09B	NO2NO3	Nitrate	E353.1
5A	04-46	N	8804056-09A	OPO4	Orthophosphate	E365.4
5A	04-46	N	8804056-09C	SE_G	Metals	E270.2
5A	04-46	N	8804056-09A	SO4_N	Sulfate	E375.4
5A	04-46	N	8804056-09A	TDS	Total Dissolved Solids	E160.1
5A	04-46	N	8804057-11C	XYLENE	Purgeable Aromatics	E602
5A	04-47	D	8804056-10C	AS_G	Metals	E206.2
5A	04-47	D	8804056-10A	CL_T	Chloride	E325.3
5A	04-47	D	8804057-12A	EPA601	Purgeable Halocarbons	E601
5A	04-47	D	8804057-12C	EPA602	Purgeable Aromatics	E602
5A	04-47	D	8804056-10A	F_SIE	Fluoride	E340.2
5A	04-47	D	8804056-10C	HG_C	Metals	E245.1
5A	04-47	D	8804056-10C	ICP200	Metal Screen (ICP)	E200.7
5A	04-47	D	8804056-10B	NO2NO3	Nitrate	E353.1
5A	04-47	D	8804056-10A	OPO4	Orthophosphate	E365.4
5A	04-47	D	8804056-10C	SE_G	Metals	E270.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5A	04-47	D	8804056-10A	SO4_N	Sulfate	E375.4
5A	04-47	D	8804056-10A	TDS	Total Dissolved Solids	E160.1
5A	04-47	D	8804057-12C	XYLENE	Purgeable Aromatics	E602
5B	03-30	N	8803035-08C	AS_G	Metals	E206.2
5B	03-30	N	8803035-08A	CL_T	Chloride	E325.3
5B	03-30	N	8803036-08A	EPA601	Purgeable Halocarbons	E601
5B	03-30	N	8803036-08C	EPA602	Purgeable Aromatics	E602
5B	03-30	N	8803035-08A	F_SIE	Fluoride	E340.2
5B	03-30	N	8803035-08C	HG_C	Metals	E245.1
5B	03-30	N	8803035-08C	ICP200	Metal Screen (ICP)	E200.7
5B	03-30	N	8803035-08B	NO2NO3	Nitrate	E353.1
5B	03-30	N	8803035-08A	OPO4	Orthophosphate	E365.4
5B	03-30	N	8803035-08C	PB_G	Metals	E239.2
5B	03-30	N	8803035-08C	SE_G	Metals	E270.2
5B	03-30	N	8803035-08A	SO4_N	Sulfate	E375.4
5B	03-30	N	8803035-08A	TDS	Total Dissolved Solids	E160.1
5B	03-30	N	8803036-08C	XYLENE	Purgeable Aromatics	E602
5B	04-44	N	8804056-07C	AS_G	Metals	E206.2
5B	04-44	N	8804056-07A	CL_T	Chloride	E325.3
5B	04-44	N	8804057-09A	EPA601	Purgeable Halocarbons	E601
5B	04-44	N	8804057-09C	EPA602	Purgeable Aromatics	E602
5B	04-44	N	8804056-07A	F_SIE	Fluoride	E340.2
5B	04-44	N	8804056-07C	HG_C	Metals	E245.1
5B	04-44	N	8804056-07C	ICP200	Metal Screen (ICP)	E200.7
5B	04-44	N	8804056-07B	NO2NO3	Nitrate	E353.1
5B	04-44	N	8804056-07A	OPO4	Orthophosphate	E365.4
5B	04-44	N	8804056-07C	SE_G	Metals	E270.2
5B	04-44	N	8804056-07A	SO4_N	Sulfate	E375.4
5B	04-44	N	8804056-07A	TDS	Total Dissolved Solids	E160.1
5B	04-44	N	8804057-09C	XYLENE	Purgeable Aromatics	E602
5C	03-15	N	8803031-02C	AS_G	Metals	E206.2
5C	03-15	N	8803031-02A	CL_T	Chloride	E325.3
5C	03-15	N	8803029-02A	EPA601	Purgeable Halocarbons	E601
5C	03-15	N	8803029-11A	EPA601	Purgeable Halocarbons	E601
5C	03-15	N	8803029-02C	EPA602	Purgeable Aromatics	E602
5C	03-15	N	8803031-02A	F_SIE	Fluoride	E340.2
5C	03-15	N	8803031-02C	HG_C	Metals	E245.1
5C	03-15	N	8803031-02C	ICP200	Metal Screen (ICP)	E200.7
5C	03-15	N	8803031-02D	NO2NO3	Nitrate	E353.1
5C	03-15	N	8803031-02A	OPO4	Orthophosphate	E365.4
5C	03-15	N	8803031-02C	PB_G	Metals	E239.2
5C	03-15	N	8803031-02C	SE_G	Metals	E270.2
5C	03-15	N	8803031-02A	SO4_N	Sulfate	E375.4

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5C	03-15	N	8803031-02A	TDS	Total Dissolved Solids	E160.1
5C	03-15	N	8803029-02C	XYLENE	Purgeable Aromatics	E602
5C	04-48	ER	8804064-01C	AS_G	Metals	E206.2
5C	04-48	ER	8804064-01A	CL_T	Chloride	E325.3
5C	04-48	ER	8804148-01A	EPA601	Purgeable Halocarbons	E601
5C	04-48	ER	8804062-01A	EPA601	Purgeable Halocarbons	E601
5C	04-48	ER	8804062-01C	EPA602	Purgeable Aromatics	E602
5C	04-48	ER	8804148-01A	EPA602	Purgeable Aromatics	E602
5C	04-48	ER	8804064-01A	F_SIE	Fluoride	E340.2
5C	04-48	ER	8804064-01C	HG_C	Metals	E245.1
5C	04-48	ER	8804064-01C	ICP200	Metal Screen (ICP)	E200.7
5C	04-48	ER	8804064-01B	NO2NO3	Nitrate	E353.1
5C	04-48	ER	8804064-01A	OPO4	Orthophosphate	E365.4
5C	04-48	ER	8804064-01C	SE_G	Metals	E270.2
5C	04-48	ER	8804064-01A	SO4_N	Sulfate	E375.4
5C	04-48	ER	8804064-01A	TDS	Total Dissolved Solids	E160.1
5C	04-48	ER	8804148-01A	XYLENE	Purgeable Aromatics	E602
5C	04-48	ER	8804062-01C	XYLENE	Purgeable Aromatics	E602
5C	04-49	N	8804064-02C	AS_G	Metals	E206.2
5C	04-49	N	8804064-02A	CL_T	Chloride	E325.3
5C	04-49	N	8804062-02A	EPA601	Purgeable Halocarbons	E601
5C	04-49	N	8804148-02A	EPA601	Purgeable Halocarbons	E601
5C	04-49	N	8804062-02C	EPA602	Purgeable Aromatics	E602
5C	04-49	N	8804064-02A	F_SIE	Fluoride	E340.2
5C	04-49	N	8804064-02C	HG_C	Metals	E245.1
5C	04-49	N	8804064-02C	ICP200	Metal Screen (ICP)	E200.7
5C	04-49	N	8804064-02B	NO2NO3	Nitrate	E353.1
5C	04-49	N	8804064-02A	OPO4	Orthophosphate	E365.4
5C	04-49	N	8804064-02C	SE_G	Metals	E270.2
5C	04-49	N	8804064-02A	SO4_N	Sulfate	E375.4
5C	04-49	N	8804064-02A	TDS	Total Dissolved Solids	E160.1
5C	04-49	N	8804062-02C	XYLENE	Purgeable Aromatics	E602
5D	03-19	N	8803031-04C	AS_G	Metals	E206.2
5D	03-19	N	8803031-04A	CL_T	Chloride	E325.3
5D	03-19	N	8803029-06A	EPA601	Purgeable Halocarbons	E601
5D	03-19	N	8803029-06C	EPA602	Purgeable Aromatics	E602
5D	03-19	N	8803031-04A	F_SIE	Fluoride	E340.2
5D	03-19	N	8803031-04C	HG_C	Metals	E245.1
5D	03-19	N	8803031-04C	ICP200	Metal Screen (ICP)	E200.7
5D	03-19	N	8803031-04D	NO2NO3	Nitrate	E353.1
5D	03-19	N	8803031-04A	OPO4	Orthophosphate	E365.4
5D	03-19	N	8803031-04C	PB_G	Metals	E239.2
5D	03-19	N	8803031-04C	SE_G	Metals	E270.2

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5D	03-19	N	8803031-04A	SO4_N	Sulfate	E375.4
5D	03-19	N	8803031-04A	TDS	Total Dissolved Solids	E160.1
5D	03-19	N	8803029-06C	XYLENE	Purgeable Aromatics	E602
5D	03-20	ER	8803031-05C	AS_G	Metals	E206.2
5D	03-20	ER	8803031-05A	CL_T	Chloride	E325.3
5D	03-20	ER	8803029-14A	EPA601	Purgeable Halocarbons	E601
5D	03-20	ER	8803029-07A	EPA601	Purgeable Halocarbons	E601
5D	03-20	ER	8803029-07C	EPA602	Purgeable Aromatics	E602
5D	03-20	ER	8803031-05A	F_SIE	Fluoride	E340.2
5D	03-20	ER	8803031-05C	HG_C	Metals	E245.1
5D	03-20	ER	8803031-05C	ICP200	Metal Screen (ICP)	E200.7
5D	03-20	ER	8803031-05D	NO2NO3	Nitrate	E353.1
5D	03-20	ER	8803031-05A	OPO4	Orthophosphate	E365.4
5D	03-20	ER	8803031-05C	PB_G	Metals	E239.2
5D	03-20	ER	8803031-05C	SE_G	Metals	E270.2
5D	03-20	ER	8803031-05A	SO4_N	Sulfate	E375.4
5D	03-20	ER	8803031-05A	TDS	Total Dissolved Solids	E160.1
5D	03-20	ER	8803029-07C	XYLENE	Purgeable Aromatics	E602
5D	04-43	N	8804056-06C	AS_G	Metals	E206.2
5D	04-43	N	8804056-06A	CL_T	Chloride	E325.3
5D	04-43	N	8804057-08A	EPA601	Purgeable Halocarbons	E601
5D	04-43	N	8805006-08A	EPA601	Purgeable Halocarbons	E601
5D	04-43	N	8804057-08C	EPA602	Purgeable Aromatics	E602
5D	04-43	N	8804056-06A	F_SIE	Fluoride	E340.2
5D	04-43	N	8804056-06C	HG_C	Metals	E245.1
5D	04-43	N	8804056-06C	ICP200	Metal Screen (ICP)	E200.7
5D	04-43	N	8804056-06B	NO2NO3	Nitrate	E353.1
5D	04-43	N	8804056-06A	OPO4	Orthophosphate	E365.4
5D	04-43	N	8804056-06C	SE_G	Metals	E270.2
5D	04-43	N	8804056-06A	SO4_N	Sulfate	E375.4
5D	04-43	N	8804056-06A	TDS	Total Dissolved Solids	E160.1
5D	04-43	N	8804057-08C	XYLENE	Purgeable Aromatics	E602
5D	Car8-01-032	SN	S802009-01A	CL8240	Volatile Organic Compounds	SW8240
5D	Car8-01-033	SN	S802009-02A	CL8270	Semivolatile Organic Compounds	SW8270
5D	Car8-01-033	SN	S802009-02A	DRY_WT	Soil Moisture	UNK
5D	Car8-01-034	SN	8802028-01A	AS_G	Metals	E206.2
5D	Car8-01-034	SN	8802028-01A	HG_C	Metals	E245.1
5D	Car8-01-034	SN	8802028-01A	ICP200	Metal Screen (ICP)	E200.7
5D	Car8-01-034	SN	8802028-01A	ONG_IR	Oil & Grease	E413.2
5D	Car8-01-034	SN	8802028-01A	SE_G	Metals	E270.2
5E	03-21	N	8803031-06C	AS_G	Metals	E206.2
5E	03-21	N	8803031-06A	CL_T	Chloride	E325.3
5E	03-21	N	8803029-08A	EPA601	Purgeable Halocarbons	E601

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5E	03-21	N	8803029-08C	EPA602	Purgeable Aromatics	E602
5E	03-21	N	8803031-06A	F_SIE	Fluoride	E340.2
5E	03-21	N	8803031-06C	HG_C	Metals	E245.1
5E	03-21	N	8803031-06C	ICP200	Metal Screen (ICP)	E200.7
5E	03-21	N	8803031-06D	NO2NO3	Nitrate	E353.1
5E	03-21	N	8803031-06A	OPO4	Orthophosphate	E365.4
5E	03-21	N	8803031-06C	PB_G	Metals	E239.2
5E	03-21	N	8803031-06C	SE_G	Metals	E270.2
5E	03-21	N	8803031-06A	SO4_N	Sulfate	E375.4
5E	03-21	N	8803031-06A	TDS	Total Dissolved Solids	E160.1
5E	03-21	N	8803029-08C	XYLENE	Purgeable Aromatics	E602
5E	04-45	N	8804056-08C	AS_G	Metals	E206.2
5E	04-45	N	8804056-08A	CL_T	Chloride	E325.3
5E	04-45	N	8804057-10A	EPA601	Purgeable Halocarbons	E601
5E	04-45	N	8805006-09A	EPA601	Purgeable Halocarbons	E601
5E	04-45	N	8804057-10C	EPA602	Purgeable Aromatics	E602
5E	04-45	N	8804056-08A	F_SIE	Fluoride	E340.2
5E	04-45	N	8804056-08C	HG_C	Metals	E245.1
5E	04-45	N	8804056-08C	ICP200	Metal Screen (ICP)	E200.7
5E	04-45	N	8804056-08B	NO2NO3	Nitrate	E353.1
5E	04-45	N	8804056-08A	OPO4	Orthophosphate	E365.4
5E	04-45	N	8804056-08C	SE_G	Metals	E270.2
5E	04-45	N	8804056-08A	SO4_N	Sulfate	E375.4
5E	04-45	N	8804056-08A	TDS	Total Dissolved Solids	E160.1
5E	04-45	N	8804057-10C	XYLENE	Purgeable Aromatics	E602
5E	Car8-02-001	SN	S802009-03A	CL8240	Volatile Organic Compounds	SW8240
5E	Car8-02-002	SN	S802009-04A	CL8270	Semivolatile Organic Compounds	SW8270
5E	Car8-02-002	SN	S802009-04A	DRY_WT	Soil Moisture	UNK
5E	Car8-02-003	SN	8802028-02A	AS_G	Metals	E206.2
5E	Car8-02-003	SN	8802028-02A	HG_C	Metals	E245.1
5E	Car8-02-003	SN	8802028-02A	ICP200	Metal Screen (ICP)	E200.7
5E	Car8-02-003	SN	8802028-02A	ONG_IR	Oil & Grease	E413.2
5E	Car8-02-003	SN	8802028-02A	SE_G	Metals	E270.2
5E	Car8-02-004	SN	S802009-05A	CL8240	Volatile Organic Compounds	SW8240
5E	Car8-02-005	SN	S802009-06A	CL8270	Semivolatile Organic Compounds	SW8270
5E	Car8-02-005	SN	S802009-06A	DRY_WT	Soil Moisture	UNK
5E	Car8-02-006	SN	8802028-03A	AS_G	Metals	E206.2
5E	Car8-02-006	SN	8802028-03A	HG_C	Metals	E245.1
5E	Car8-02-006	SN	8802028-03A	ICP200	Metal Screen (ICP)	E200.7
5E	Car8-02-006	SN	8802028-03A	ONG_IR	Oil & Grease	E413.2
5E	Car8-02-006	SN	8802028-03A	SE_G	Metals	E270.2
5F	03-37		8803041-07A	AS_G	Metals	E206.2
5F	03-37		8803041-07B	CL_T	Chloride	E325.3

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5F	03-37		8803040-07A	EPA601	Purgeable Halocarbons	E601
5F	03-37		8803040-07C	EPA602	Purgeable Aromatics	E602
5F	03-37		8803041-07B	F_SIE	Fluoride	E340.2
5F	03-37		8803041-07A	HG_C	Metals	E245.1
5F	03-37		8803041-07A	ICP200	Metal Screen (ICP)	E200.7
5F	03-37		8803041-07C	NO2NO3	Nitrate	E353.1
5F	03-37		8803041-07B	OPO4	Orthophosphate	E365.4
5F	03-37		8803041-07A	SE_G	Metals	E270.2
5F	03-37		8803041-07B	SO4_N	Sulfate	E375.4
5F	03-37		8803041-07B	TDS	Total Dissolved Solids	E160.1
5F	03-37		8803040-07C	XYLENE	Purgeable Aromatics	E602
5F	03-38		8803041-08A	AS_G	Metals	E206.2
5F	03-38		8803041-08B	CL_T	Chloride	E325.3
5F	03-38		8803040-08A	EPA601	Purgeable Halocarbons	E601
5F	03-38		8803040-08C	EPA602	Purgeable Aromatics	E602
5F	03-38		8803041-08B	F_SIE	Fluoride	E340.2
5F	03-38		8803041-08A	HG_C	Metals	E245.1
5F	03-38		8803041-08A	ICP200	Metal Screen (ICP)	E200.7
5F	03-38		8803041-08C	NO2NO3	Nitrate	E353.1
5F	03-38		8803041-08B	OPO4	Orthophosphate	E365.4
5F	03-38		8803041-08A	SE_G	Metals	E270.2
5F	03-38		8803041-08B	SO4_N	Sulfate	E375.4
5F	03-38		8803041-08B	TDS	Total Dissolved Solids	E160.1
5F	03-38		8803040-08C	XYLENE	Purgeable Aromatics	E602
5F	04-66	N	8804074-07C	AS_G	Metals	E206.2
5F	04-66	N	8804074-07A	CL_T	Chloride	E325.3
5F	04-66	N	8804075-08A	EPA601	Purgeable Halocarbons	E601
5F	04-66	N	8804145-06A	EPA601	Purgeable Halocarbons	E601
5F	04-66	N	8804075-08C	EPA602	Purgeable Aromatics	E602
5F	04-66	N	8804074-07A	F_SIE	Fluoride	E340.2
5F	04-66	N	8804074-07C	HG_C	Metals	E245.1
5F	04-66	N	8804074-07C	ICP200	Metal Screen (ICP)	E200.7
5F	04-66	N	8804074-07B	NO2NO3	Nitrate	E353.1
5F	04-66	N	8804074-07A	OPO4	Orthophosphate	E365.4
5F	04-66	N	8804074-07C	SE_G	Metals	E270.2
5F	04-66	N	8804074-07A	SO4_N	Sulfate	E375.4
5F	04-66	N	8804074-07A	TDS	Total Dissolved Solids	E160.1
5F	04-66	N	8804075-08C	XYLENE	Purgeable Aromatics	E602
5F	04-67	ER	8804074-08C	AS_G	Metals	E206.2
5F	04-67	ER	8804074-08A	CL_T	Chloride	E325.3
5F	04-67	ER	8804145-07A	EPA601	Purgeable Halocarbons	E601
5F	04-67	ER	8804075-09A	EPA601	Purgeable Halocarbons	E601
5F	04-67	ER	8804075-09C	EPA602	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5F	04-67	ER	8804074-08A	F_SIE	Fluoride	E340.2
5F	04-67	ER	8804074-08C	HG_C	Metals	E245.1
5F	04-67	ER	8804074-08C	ICP200	Metal Screen (ICP)	E200.7
5F	04-67	ER	8804074-08B	NO2NO3	Nitrate	E353.1
5F	04-67	ER	8804074-08A	OPO4	Orthophosphate	E365.4
5F	04-67	ER	8804074-08C	SE_G	Metals	E270.2
5F	04-67	ER	8804074-08A	SO4_N	Sulfate	E375.4
5F	04-67	ER	8804074-08A	TDS	Total Dissolved Solids	E160.1
5F	04-67	ER	8804075-09C	XYLENE	Purgeable Aromatics	E602
5F	Car8-02-016	SN	S802040-05A	CL8240	Volatile Organic Compounds	SW8240
5F	Car8-02-017	SN	S802040-06A	CL8270	Semivolatile Organic Compounds	SW8270
5F	Car8-02-017	SN	S802040-06A	DRY_WT	Soil Moisture	UNK
5F	Car8-02-018	SN	8802072-03A	AS_G	Metals	E206.2
5F	Car8-02-018	SN	8802072-03A	HG_C	Metals	E245.1
5F	Car8-02-018	SN	8802072-03A	ICP200	Metal Screen (ICP)	E200.7
5F	Car8-02-018	SN	8802072-03A	ONG_IR	Oil & Grease	E413.2
5F	Car8-02-018	SN	8802072-03A	SE_G	Metals	E270.2
5F	Car8-02-019	SN	S802040-07A	CL8240	Volatile Organic Compounds	SW8240
5F	Car8-02-020	SN	S802040-08A	CL8270	Semivolatile Organic Compounds	SW8270
5F	Car8-02-020	SN	S802040-08A	DRY_WT	Soil Moisture	UNK
5F	Car8-02-021	SN	8802072-04A	AS_G	Metals	E206.2
5F	Car8-02-021	SN	8802072-04A	HG_C	Metals	E245.1
5F	Car8-02-021	SN	8802072-04A	ICP200	Metal Screen (ICP)	E200.7
5F	Car8-02-021	SN	8802072-04A	ONG_IR	Oil & Grease	E413.2
5F	Car8-02-021	SN	8802072-04A	SE_G	Metals	E270.2
5G	02-168	N	8803006-05C	AS_G	Metals	E206.2
5G	02-168	N	8803006-05D	CL_T	Chloride	E325.3
5G	02-168	N	8803005-05A	EPA601	Purgeable Halocarbons	E601
5G	02-168	N	8803005-12A	EPA601	Purgeable Halocarbons	E601
5G	02-168	N	8803005-05C	EPA602	Purgeable Aromatics	E602
5G	02-168	N	8803006-05D	F_SIE	Fluoride	E340.2
5G	02-168	N	8803006-05C	HG_C	Metals	E245.1
5G	02-168	N	8803006-05C	ICP200	Metal Screen (ICP)	E200.7
5G	02-168	N	8803006-05B	NO2NO3	Nitrate	E353.1
5G	02-168	N	8803006-05D	OPO4	Orthophosphate	E365.4
5G	02-168	N	8803006-05C	PB_G	Metals	E239.2
5G	02-168	N	8803006-05C	SE_G	Metals	E270.2
5G	02-168	N	8803006-05D	SO4_N	Sulfate	E375.4
5G	02-168	N	8803006-05D	TDS	Total Dissolved Solids	E160.1
5G	02-168	N	8803005-05C	XYLENE	Purgeable Aromatics	E602
5G	04-32	N	8804046-04C	AS_G	Metals	E206.2
5G	04-32	N	8804046-04A	CL_T	Chloride	E325.3
5G	04-32	N	8804045-06A	EPA601	Purgeable Halocarbons	E601

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5G	04-32	N	8804076-06A	EPA601	Purgeable Halocarbons	E601
5G	04-32	N	8804045-06C	EPA602	Purgeable Aromatics	E602
5G	04-32	N	8804046-04A	F_SIE	Fluoride	E340.2
5G	04-32	N	8804046-04C	HG_C	Metals	E245.1
5G	04-32	N	8804046-04C	ICP200	Metal Screen (ICP)	E200.7
5G	04-32	N	8804046-04B	NO3	Nitrate	E353.2
5G	04-32	N	8804046-04A	OPO4	Orthophosphate	E365.4
5G	04-32	N	8804046-04C	SE_G	Metals	E270.2
5G	04-32	N	8804046-04A	SO4_N	Sulfate	E375.4
5G	04-32	N	8804046-04A	TDS	Total Dissolved Solids	E160.1
5G	04-32	N	8804045-06C	XYLENE	Purgeable Aromatics	E602
5G	04-33	TB	8804045-07A	EPA601	Purgeable Halocarbons	E601
5G	04-33	TB	8804045-07C	EPA602	Purgeable Aromatics	E602
5G	04-33	TB	8804076-07A	EPA602	Purgeable Aromatics	E602
5G	04-33	TB	8804045-07C	XYLENE	Purgeable Aromatics	E602
5G	04-33	TB	8804076-07A	XYLENE	Purgeable Aromatics	E602
5G	04-34	FB	8804045-08A	EPA601	Purgeable Halocarbons	E601
5G	04-34	FB	8804045-08C	EPA602	Purgeable Aromatics	E602
5G	04-34	FB	8804076-08A	EPA602	Purgeable Aromatics	E602
5G	04-34	FB	8804076-08A	XYLENE	Purgeable Aromatics	E602
5G	04-34	FB	8804045-08C	XYLENE	Purgeable Aromatics	E602
5G	Car8-02-010	SN	S802040-01A	CL8240	Volatile Organic Compounds	SW8240
5G	Car8-02-011	SN	S802040-02A	CL8270	Semivolatile Organic Compounds	SW8270
5G	Car8-02-011	SN	S802040-02A	DRY_WT	Soil Moisture	UNK
5G	Car8-02-012	SN	8802072-01A	AS_G	Metals	E206.2
5G	Car8-02-012	SN	8802072-01A	HG_C	Metals	E245.1
5G	Car8-02-012	SN	8802072-01A	ICP200	Metal Screen (ICP)	E200.7
5G	Car8-02-012	SN	8802072-01A	ONG_IR	Oil & Grease	E413.2
5G	Car8-02-012	SN	8802072-01A	SE_G	Metals	E270.2
5H	02-169	N	8803006-06C	AS_G	Metals	E206.2
5H	02-169	N	8803006-06D	CL_T	Chloride	E325.3
5H	02-169	N	8803005-06A	EPA601	Purgeable Halocarbons	E601
5H	02-169	N	8803005-13A	EPA601	Purgeable Halocarbons	E601
5H	02-169	N	8803005-06C	EPA602	Purgeable Aromatics	E602
5H	02-169	N	8803005-13A	EPA602	Purgeable Aromatics	E602
5H	02-169	N	8803006-06D	F_SIE	Fluoride	E340.2
5H	02-169	N	8803006-06C	HG_C	Metals	E245.1
5H	02-169	N	8803006-06C	ICP200	Metal Screen (ICP)	E200.7
5H	02-169	N	8803006-06B	NO2NO3	Nitrate	E353.1
5H	02-169	N	8803006-06D	OPO4	Orthophosphate	E365.4
5H	02-169	N	8803006-06C	PB_G	Metals	E239.2
5H	02-169	N	8803006-06C	SE_G	Metals	E270.2
5H	02-169	N	8803006-06D	SO4_N	Sulfate	E375.4

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
5H	02-169	N	8803006-06D	TDS	Total Dissolved Solids	E160.1
5H	02-169	N	8803005-13A	XYLENE	Purgeable Aromatics	E602
5H	02-169	N	8803005-06C	XYLENE	Purgeable Aromatics	E602
5H	04-31	N	8804046-03C	AS_G	Metals	E206.2
5H	04-31	N	8804046-03A	CL_T	Chloride	E325.3
5H	04-31	N	8804045-05A	EPA601	Purgeable Halocarbons	E601
5H	04-31	N	8804076-05A	EPA601	Purgeable Halocarbons	E601
5H	04-31	N	8804045-05C	EPA602	Purgeable Aromatics	E602
5H	04-31	N	8804046-03A	F_SIE	Fluoride	E340.2
5H	04-31	N	8804046-03C	HG_C	Metals	E245.1
5H	04-31	N	8804046-03C	ICP200	Metal Screen (ICP)	E200.7
5H	04-31	N	8804046-03B	NO3	Nitrate	E353.2
5H	04-31	N	8804046-03A	OPO4	Orthophosphate	E365.4
5H	04-31	N	8804046-03C	SE_G	Metals	E270.2
5H	04-31	N	8804046-03A	SO4_N	Sulfate	E375.4
5H	04-31	N	8804046-03A	TDS	Total Dissolved Solids	E160.1
5H	04-31	N	8804045-05C	XYLENE	Purgeable Aromatics	E602
5H	Car8-02-013	SN	S802040-03A	CL8240	Volatile Organic Compounds	SW8240
5H	Car8-02-014	SN	S802040-04A	CL8270	Semivolatile Organic Compounds	SW8270
5H	Car8-02-014	SN	S802040-04A	DRY_WT	Soil Moisture	UNK
5H	Car8-02-015	SN	8802072-02A	AS_G	Metals	E206.2
5H	Car8-02-015	SN	8802072-02A	HG_C	Metals	E245.1
5H	Car8-02-015	SN	8802072-02A	ICP200	Metal Screen (ICP)	E200.7
5H	Car8-02-015	SN	8802072-02A	ONG_IR	Oil & Grease	E413.2
5H	Car8-02-015	SN	8802072-02A	SE_G	Metals	E270.2
BSS	Car8-02-144	SN	S802089-03A	CL8240	Volatile Organic Compounds	SW8240
BSS	Car8-02-145	SN	S802089-04A	CL8270	Semivolatile Organic Compounds	SW8270
BSS	Car8-02-145	SN	S802089-04A	DRY_WT	Soil Moisture	UNK
BSS	Car8-02-146	SN	S802094-02B	8080	Organochlorine Pesticides and PCBs	SW8080
BSS	Car8-02-146	SN	S802094-02C	8150	Chlorinated Phenoxy Herbicides	SW8150
BSS	Car8-02-146	SN	S802094-02A	AG_EM	Metal Screen (ICP)	E200.7
BSS	Car8-02-146	SN	S802094-02A	AS_GF	Metals	E206.2
BSS	Car8-02-146	SN	S802094-02A	BA_EM	Metal Screen (ICP)	E200.7
BSS	Car8-02-146	SN	S802094-02A	CD_EM	Metal Screen (ICP)	E200.7
BSS	Car8-02-146	SN	S802094-02A	CR_EM	Metal Screen (ICP)	E200.7
BSS	Car8-02-146	SN	S802094-02A	HG_CV	Metals	E245.1
BSS	Car8-02-146	SN	S802094-02A	PB_G	Metals	E239.2
BSS	Car8-02-146	SN	S802094-02A	SE_GF	Metals	E270.2
BSSA	03-34		8803041-04A	AS_G	Metals	E206.2
BSSA	03-34		8803040-04A	EPA601	Purgeable Halocarbons	E601
BSSA	03-34		8803040-10A	EPA602	Purgeable Aromatics	E602
BSSA	03-34		8803040-04C	EPA602	Purgeable Aromatics	E602
BSSA	03-34		8803041-04C	HC_IR	Petroleum Hydrocarbons	E418.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
BSSA	03-34		8803041-04A	HG_C	Metals	E245.1
BSSA	03-34		8803041-04A	ICP200	Metal Screen (ICP)	E200.7
BSSA	03-34		8803041-04A	PB_G	Metals	E239.2
BSSA	03-34		8803041-04A	SE_G	Metals	E270.2
BSSA	03-34		8803041-04B	TDS	Total Dissolved Solids	E160.1
BSSA	03-34		8803040-04C	XYLENE	Purgeable Aromatics	E602
BSSA	03-34		8803040-10A	XYLENE	Purgeable Aromatics	E602
BSSA	04-77	N	8804081-04A	AS_G	Metals	E206.2
BSSA	04-77	N	8804082-04A	EPA601	Purgeable Halocarbons	E601
BSSA	04-77	N	8804082-11A	EPA601	Purgeable Halocarbons	E601
BSSA	04-77	N	8804082-04C	EPA602	Purgeable Aromatics	E602
BSSA	04-77	N	8804081-04B	HC_IR	Petroleum Hydrocarbons	E418.1
BSSA	04-77	N	8804081-04A	HG_C	Metals	E245.1
BSSA	04-77	N	8804081-04A	ICP200	Metal Screen (ICP)	E200.7
BSSA	04-77	N	8804081-04A	PB_G	Metals	E239.2
BSSA	04-77	N	8804081-04A	SE_G	Metals	E270.2
BSSA	04-77	N	8804081-04C	TDS	Total Dissolved Solids	E160.1
BSSA	04-77	N	8804082-04C	XYLENE	Purgeable Aromatics	E602
BSSA	04-78	ER	8804081-05A	AS_G	Metals	E206.2
BSSA	04-78	ER	8804082-05A	EPA601	Purgeable Halocarbons	E601
BSSA	04-78	ER	8804082-05C	EPA602	Purgeable Aromatics	E602
BSSA	04-78	ER	8804081-05B	HC_IR	Petroleum Hydrocarbons	E418.1
BSSA	04-78	ER	8804081-05A	HG_C	Metals	E245.1
BSSA	04-78	ER	8804081-05A	ICP200	Metal Screen (ICP)	E200.7
BSSA	04-78	ER	8804081-05A	PB_G	Metals	E239.2
BSSA	04-78	ER	8804081-05A	SE_G	Metals	E270.2
BSSA	04-78	ER	8804082-05C	XYLENE	Purgeable Aromatics	E602
BSSA	Car8-02-049	SN	S802056-12A	CL8240	Volatile Organic Compounds	SW8240
BSSA	Car8-02-050	SD	8802084-08A	HC_IR	Petroleum Hydrocarbons	E418.1
BSSA	Car8-02-050	SD	8802084-08A	PB_G	Metals	E239.2
BSSA	Car8-02-051	SN	S802056-13A	CL8240	Volatile Organic Compounds	SW8240
BSSA	Car8-02-052	SD	8802084-09A	HC_IR	Petroleum Hydrocarbons	E418.1
BSSA	Car8-02-052	SD	8802084-09A	PB_G	Metals	E239.2
BSSB	03-35		8803041-05A	AS_G	Metals	E206.2
BSSB	03-35		8803040-05A	EPA601	Purgeable Halocarbons	E601
BSSB	03-35		8803040-11A	EPA602	Purgeable Aromatics	E602
BSSB	03-35		8803040-05C	EPA602	Purgeable Aromatics	E602
BSSB	03-35		8803041-05C	HC_IR	Petroleum Hydrocarbons	E418.1
BSSB	03-35		8803041-05A	HG_C	Metals	E245.1
BSSB	03-35		8803041-05A	ICP200	Metal Screen (ICP)	E200.7
BSSB	03-35		8803041-05A	PB_G	Metals	E239.2
BSSB	03-35		8803041-05A	SE_G	Metals	E270.2
BSSB	03-35		8803041-05B	TDS	Total Dissolved Solids	E160.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
BSSB	03-35		8803040-05C	XYLENE	Purgeable Aromatics	E602
BSSB	03-35		8803040-11A	XYLENE	Purgeable Aromatics	E602
BSSB	04-74	N	8804081-01A	AS_G	Metals	E206.2
BSSB	04-74	N	8804082-09A	EPA601	Purgeable Halocarbons	E601
BSSB	04-74	N	8804082-01A	EPA601	Purgeable Halocarbons	E601
BSSB	04-74	N	8804082-01C	EPA602	Purgeable Aromatics	E602
BSSB	04-74	N	8804082-09A	EPA602	Purgeable Aromatics	E602
BSSB	04-74	N	8804081-01B	HC_IR	Petroleum Hydrocarbons	E418.1
BSSB	04-74	N	8804081-01A	HG_C	Metals	E245.1
BSSB	04-74	N	8804081-01A	ICP200	Metal Screen (ICP)	E200.7
BSSB	04-74	N	8804081-01A	PB_G	Metals	E239.2
BSSB	04-74	N	8804081-01A	SE_G	Metals	E270.2
BSSB	04-74	N	8804081-01C	TDS	Total Dissolved Solids	E160.1
BSSB	04-74	N	8804082-09A	XYLENE	Purgeable Aromatics	E602
BSSB	04-74	N	8804082-01C	XYLENE	Purgeable Aromatics	E602
BSSB	04-75	D	8804081-02A	AS_G	Metals	E206.2
BSSB	04-75	D	8804082-10A	EPA601	Purgeable Halocarbons	E601
BSSB	04-75	D	8804082-02A	EPA601	Purgeable Halocarbons	E601
BSSB	04-75	D	8804082-10A	EPA602	Purgeable Aromatics	E602
BSSB	04-75	D	8804082-02C	EPA602	Purgeable Aromatics	E602
BSSB	04-75	D	8804081-02B	HC_IR	Petroleum Hydrocarbons	E418.1
BSSB	04-75	D	8804081-02A	HG_C	Metals	E245.1
BSSB	04-75	D	8804081-02A	ICP200	Metal Screen (ICP)	E200.7
BSSB	04-75	D	8804081-02A	PB_G	Metals	E239.2
BSSB	04-75	D	8804081-02A	SE_G	Metals	E270.2
BSSB	04-75	D	8804081-02C	TDS	Total Dissolved Solids	E160.1
BSSB	04-75	D	8804082-02C	XYLENE	Purgeable Aromatics	E602
BSSB	04-75	D	8804082-10A	XYLENE	Purgeable Aromatics	E602
BSSB	04-79	FB	8804082-06A	EPA601	Purgeable Halocarbons	E601
BSSB	04-79	FB	8804082-06C	EPA602	Purgeable Aromatics	E602
BSSB	04-79	FB	8804082-06C	XYLENE	Purgeable Aromatics	E602
BSSB	04-80	TB	8804082-07A	EPA601	Purgeable Halocarbons	E601
BSSB	04-80	TB	8804082-07C	EPA602	Purgeable Aromatics	E602
BSSB	04-80	TB	8804082-07C	XYLENE	Purgeable Aromatics	E602
BSSB	Car8-02-047	SN	S802056-11A	CL8240	Volatile Organic Compounds	SW8240
BSSB	Car8-02-048	SN	8802084-07A	HC_IR	Petroleum Hydrocarbons	E418.1
BSSB	Car8-02-048	SN	8802084-07A	PB_G	Metals	E239.2
BSSC	03-36		8803041-06A	AS_G	Metals	E206.2
BSSC	03-36		8803040-06A	EPA601	Purgeable Halocarbons	E601
BSSC	03-36		8803040-06C	EPA602	Purgeable Aromatics	E602
BSSC	03-36		8803040-12A	EPA602	Purgeable Aromatics	E602
BSSC	03-36		8803041-06C	HC_IR	Petroleum Hydrocarbons	E418.1
BSSC	03-36		8803041-06A	HG_C	Metals	E245.1

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
BSSC	03-36		8803041-06A	ICP200	Metal Screen (ICP)	E200.7
BSSC	03-36		8803041-06A	PB_G	Metals	E239.2
BSSC	03-36		8803041-06A	SE_G	Metals	E270.2
BSSC	03-36		8803041-06B	TDS	Total Dissolved Solids	E160.1
BSSC	03-36		8803040-06C	XYLENE	Purgeable Aromatics	E602
BSSC	03-36		8803040-12A	XYLENE	Purgeable Aromatics	E602
BSSC	04-76	N	8804081-03A	AS_G	Metals	E206.2
BSSC	04-76	N	8804082-03A	EPA601	Purgeable Halocarbons	E601
BSSC	04-76	N	8804082-03C	EPA602	Purgeable Aromatics	E602
BSSC	04-76	N	8804081-03B	HC_IR	Petroleum Hydrocarbons	E418.1
BSSC	04-76	N	8804081-03A	HG_C	Metals	E245.1
BSSC	04-76	N	8804081-03A	ICP200	Metal Screen (ICP)	E200.7
BSSC	04-76	N	8804081-03A	PB_G	Metals	E239.2
BSSC	04-76	N	8804081-03A	SE_G	Metals	E270.2
BSSC	04-76	N	8804081-03C	TDS	Total Dissolved Solids	E160.1
BSSC	04-76	N	8804082-03C	XYLENE	Purgeable Aromatics	E602
BSSC	Car8-02-043	SN	S802056-09A	CL8240	Volatile Organic Compounds	SW8240
BSSC	Car8-02-044	SN	8802084-05A	HC_IR	Petroleum Hydrocarbons	E418.1
BSSC	Car8-02-044	SN	8802084-05A	PB_G	Metals	E239.2
BSSD	Car8-02-045	SN	S802056-10A	CL8240	Volatile Organic Compounds	SW8240
BSSD	Car8-02-046	SN	8802084-06A	HC_IR	Petroleum Hydrocarbons	E418.1
BSSD	Car8-02-046	SN	8802084-06A	PB_G	Metals	E239.2
P1	02-153	N	8802136-04G	AS_G	Metals	E206.2
P1	02-153	N	8802136-04H	CL_T	Chloride	E325.3
P1	02-153	N	8802136-04A	EPA601	Purgeable Halocarbons	E601
P1	02-153	N	8802136-04C	EPA602	Purgeable Aromatics	E602
P1	02-153	N	8802136-08A	EPA602	Purgeable Aromatics	E602
P1	02-153	N	8802136-04H	F_SIE	Fluoride	E340.2
P1	02-153	N	8802136-04G	HG_C	Metals	E245.1
P1	02-153	N	8802136-04G	ICP200	Metal Screen (ICP)	E200.7
P1	02-153	N	8802136-04F	NO3	Nitrate	E353.2
P1	02-153	N	8802136-04H	OPO4	Orthophosphate	E365.4
P1	02-153	N	8802136-04G	PB_G	Metals	E239.2
P1	02-153	N	8802136-04G	SE_G	Metals	E270.2
P1	02-153	N	8802136-04H	SO4_N	Sulfate	E375.4
P1	02-153	N	8802136-04H	TDS	Total Dissolved Solids	E160.1
P1	02-153	N	8802136-04C	XYLENE	Purgeable Aromatics	E602
P1	02-153	N	8802136-08A	XYLENE	Purgeable Aromatics	E602
P1	04-05	N	8804016-03C	AS_G	Metals	E206.2
P1	04-05	N	S804030-01A	CL_625	Extractable Priority Pollutants	E625
P1	04-05	N	8804016-03A	CL_T	Chloride	E325.3
P1	04-05	N	8804017-02A	EPA601	Purgeable Halocarbons	E601
P1	04-05	N	8804017-11A	EPA602	Purgeable Aromatics	E602

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
P1	04-05	N	8804017-02C	EPA602	Purgeable Aromatics	E602
P1	04-05	N	8804016-03A	F_SIE	Fluoride	E340.2
P1	04-05	N	8804016-03C	HG_C	Metals	E245.1
P1	04-05	N	8804016-03C	ICP200	Metal Screen (ICP)	E200.7
P1	04-05	N	8804016-03B	NO3	Nitrate	E353.2
P1	04-05	N	8804016-03A	OPO4	Orthophosphate	E365.4
P1	04-05	N	8804016-03C	SE_G	Metals	E270.2
P1	04-05	N	8804016-03A	SO4_N	Sulfate	E375.4
P1	04-05	N	8804016-03A	TDS	Total Dissolved Solids	E160.1
P1	04-05	N	8804017-02C	XYLENE	Purgeable Aromatics	E602
P1	04-05	N	8804017-11A	XYLENE	Purgeable Aromatics	E602
P2	02-155	N	8802191-02C	AS_G	Metals	E206.2
P2	02-155	N	8802191-02D	CL_T	Chloride	E325.3
P2	02-155	N	8802190-02A	EPA601	Purgeable Halocarbons	E601
P2	02-155	N	8802190-11A	EPA602	Purgeable Aromatics	E602
P2	02-155	N	8802190-02C	EPA602	Purgeable Aromatics	E602
P2	02-155	N	8802191-02D	F_SIE	Fluoride	E340.2
P2	02-155	N	8802191-02C	HG_C	Metals	E245.1
P2	02-155	N	8802191-02C	ICP200	Metal Screen (ICP)	E200.7
P2	02-155	N	8802191-02B	NO2NO3	Nitrate	E353.1
P2	02-155	N	8802191-02D	OPO4	Orthophosphate	E365.4
P2	02-155	N	8802191-02C	PB_G	Metals	E239.2
P2	02-155	N	8802191-02C	SE_G	Metals	E270.2
P2	02-155	N	8802191-02D	SO4_N	Sulfate	E375.4
P2	02-155	N	8802191-02D	TDS	Total Dissolved Solids	E160.1
P2	02-155	N	8802190-02C	XYLENE	Purgeable Aromatics	E602
P2	02-155	N	8802190-11A	XYLENE	Purgeable Aromatics	E602
P2	04-11	N	8804016-07C	AS_G	Metals	E206.2
P2	04-11	N	8804016-07A	CL_T	Chloride	E325.3
P2	04-11	N	8804017-08A	EPA601	Purgeable Halocarbons	E601
P2	04-11	N	8804017-16A	EPA602	Purgeable Aromatics	E602
P2	04-11	N	8804017-08C	EPA602	Purgeable Aromatics	E602
P2	04-11	N	8804016-07A	F_SIE	Fluoride	E340.2
P2	04-11	N	8804016-07C	HG_C	Metals	E245.1
P2	04-11	N	8804016-07C	ICP200	Metal Screen (ICP)	E200.7
P2	04-11	N	8804016-07B	NO3	Nitrate	E353.2
P2	04-11	N	8804016-07A	OPO4	Orthophosphate	E365.4
P2	04-11	N	8804016-07C	SE_G	Metals	E270.2
P2	04-11	N	8804016-07A	SO4_N	Sulfate	E375.4
P2	04-11	N	8804016-07A	TDS	Total Dissolved Solids	E160.1
P2	04-11	N	8804017-08C	XYLENE	Purgeable Aromatics	E602
P2	04-11	N	8804017-16A	XYLENE	Purgeable Aromatics	E602
WSA	CAR8-03-060	TB	S803133-04A	CL8240	Volatile Organic Compounds	SW8240

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
WSAD	CAR8-03-059	SN	S803133-03A	CL8240	Volatile Organic Compounds	SW8240
WSAD	CAR8-03-059	SN	S803134-13A	CL8270	Semivolatile Organic Compounds	SW8270
WSAD	CAR8-03-059	SN	S803134-13A	DRY_WT	Soil Moisture	UNK
WSAD	CAR8-03-059	SN	8803173-13A	ICP200	Metal Screen (ICP)	E200.7
WSAE	CAR8-03-057	SN	S803133-02A	CL8240	Volatile Organic Compounds	SW8240
WSAE	CAR8-03-057	SN	S803134-11A	CL8270	Semivolatile Organic Compounds	SW8270
WSAE	CAR8-03-057	SN	S803134-11A	DRY_WT	Soil Moisture	UNK
WSAE	CAR8-03-057	SN	8803173-11A	ICP200	Metal Screen (ICP)	E200.7
WSAE	CAR8-03-058	SD	S803134-12A	CL8270	Semivolatile Organic Compounds	SW8270
WSAE	CAR8-03-058	SD	S803134-12A	DRY_WT	Soil Moisture	UNK
WSAE	CAR8-03-058	SD	8803173-12A	ICP200	Metal Screen (ICP)	E200.7
WSAF	CAR8-03-056	SN	S803133-01A	CL8240	Volatile Organic Compounds	SW8240
WSAF	CAR8-03-056	SN	S803134-10A	CL8270	Semivolatile Organic Compounds	SW8270
WSAF	CAR8-03-056	SN	S803134-10A	DRY_WT	Soil Moisture	UNK
WSAF	CAR8-03-056	SN	8803173-10A	ICP200	Metal Screen (ICP)	E200.7
WSAG	CAR8-03-055	SN	S803133-13A	CL8240	Volatile Organic Compounds	SW8240
WSAG	CAR8-03-055	SN	S803134-09A	CL8270	Semivolatile Organic Compounds	SW8270
WSAG	CAR8-03-055	SN	S803134-09A	DRY_WT	Soil Moisture	UNK
WSAG	CAR8-03-055	SN	8803173-09A	ICP200	Metal Screen (ICP)	E200.7
WSAH	CAR8-03-053	SD	S803133-11A	CL8240	Volatile Organic Compounds	SW8240
WSAH	CAR8-03-053	SD	S803134-07A	CL8270	Semivolatile Organic Compounds	SW8270
WSAH	CAR8-03-053	SD	S803134-07A	DRY_WT	Soil Moisture	UNK
WSAH	CAR8-03-053	SD	8803173-07A	ICP200	Metal Screen (ICP)	E200.7
WSAH	CAR8-03-054	SD	S803133-12A	CL8240	Volatile Organic Compounds	SW8240
WSAH	CAR8-03-054	SD	S803134-08A	CL8270	Semivolatile Organic Compounds	SW8270
WSAH	CAR8-03-054	SD	S803134-08A	DRY_WT	Soil Moisture	UNK
WSAH	CAR8-03-054	SD	8803173-08A	ICP200	Metal Screen (ICP)	E200.7
WSAI	CAR8-03-051	SN	S803133-09A	CL8240	Volatile Organic Compounds	SW8240
WSAI	CAR8-03-051	SN	S803134-05A	CL8270	Semivolatile Organic Compounds	SW8270
WSAI	CAR8-03-051	SN	S803134-05A	DRY_WT	Soil Moisture	UNK
WSAI	CAR8-03-051	SN	8803173-05A	ICP200	Metal Screen (ICP)	E200.7
WSAI	CAR8-03-052	SN	S803133-10A	CL8240	Volatile Organic Compounds	SW8240
WSAI	CAR8-03-052	SN	S803134-06A	CL8270	Semivolatile Organic Compounds	SW8270
WSAI	CAR8-03-052	SN	S803134-06A	DRY_WT	Soil Moisture	UNK
WSAI	CAR8-03-052	SN	8803173-06A	ICP200	Metal Screen (ICP)	E200.7
WSAJ	CAR8-03-049	SN	S803133-07A	CL8240	Volatile Organic Compounds	SW8240
WSAJ	CAR8-03-049	SN	S803134-03A	CL8270	Semivolatile Organic Compounds	SW8270
WSAJ	CAR8-03-049	SN	S803134-03A	DRY_WT	Soil Moisture	UNK
WSAJ	CAR8-03-049	SN	8803173-03A	ICP200	Metal Screen (ICP)	E200.7
WSAJ	CAR8-03-050	SN	S803133-08A	CL8240	Volatile Organic Compounds	SW8240
WSAJ	CAR8-03-050	SN	S803134-04A	CL8270	Semivolatile Organic Compounds	SW8270
WSAJ	CAR8-03-050	SN	S803134-04A	DRY_WT	Soil Moisture	UNK
WSAJ	CAR8-03-050	SN	8803173-04A	ICP200	Metal Screen (ICP)	E200.7

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

SAMPLE CROSS-REFERENCE INDEX FOR CARSWELL AFB IRP - STAGE 2

Location ID	Sample ID	Sample Type	Lab ID	Method Code	Method	IRP Method
WSAK	CAR8-03-047	SN	S803133-05A	CL8240	Volatile Organic Compounds	SW8240
WSAK	CAR8-03-047	SN	S803134-01A	CL8270	Semivolatile Organic Compounds	SW8270
WSAK	CAR8-03-047	SN	S803134-01A	DRY_WT	Soil Moisture	UNK
WSAK	CAR8-03-047	SN	8803173-01A	ICP200	Metal Screen (ICP)	E200.7
WSAK	CAR8-03-048	SN	S803133-06A	CL8240	Volatile Organic Compounds	SW8240
WSAK	CAR8-03-048	SN	S803134-02A	CL8270	Semivolatile Organic Compounds	SW8270
WSAK	CAR8-03-048	SN	S803134-02A	DRY_WT	Soil Moisture	UNK
WSAK	CAR8-03-048	SN	8803173-02A	ICP200	Metal Screen (ICP)	E200.7

NOTE: Refer to Lab ID to locate original chemical analysis data sheets for individual method results.

Lab ID	Location ID	Sample ID	Sample Type	Method Code	Method
8801151-01A	3A	Car8-01-003	SN	AS_G	Metals
8801151-01A	3A	Car8-01-003	SN	HG_C	Metals
8801151-01A	3A	Car8-01-003	SN	ICP200	Metal Screen (ICP)
8801151-01A	3A	Car8-01-003	SN	ONG_IR	Oil & Grease
8801151-01A	3A	Car8-01-003	SN	SE_G	Metals
8801151-02A	3B	Car8-01-006	SN	AS_G	Metals
8801151-02A	3B	Car8-01-006	SN	HG_C	Metals
8801151-02A	3B	Car8-01-006	SN	ICP200	Metal Screen (ICP)
8801151-02A	3B	Car8-01-006	SN	ONG_IR	Oil & Grease
8801151-02A	3B	Car8-01-006	SN	SE_G	Metals
8801151-03A	3C	Car8-01-009	SN	AS_G	Metals
8801151-03A	3C	Car8-01-009	SN	SE_G	Metals
8801151-03A	3C	Car8-01-009	SN	HG_C	Metals
8801151-03A	3C	Car8-01-009	SN	ICP200	Metal Screen (ICP)
8801151-03A	3C	Car8-01-009	SN	ONG_IR	Oil & Grease
8801151-04A	3D	Car8-01-012	SN	AS_G	Metals
8801151-04A	3D	Car8-01-012	SN	HG_C	Metals
8801151-04A	3D	Car8-01-012	SN	ICP200	Metal Screen (ICP)
8801151-04A	3D	Car8-01-012	SN	ONG_IR	Oil & Grease
8801151-04A	3D	Car8-01-012	SN	SE_G	Metals
8801151-05A	3E	Car8-01-015	SN	HG_C	Metals
8801151-05A	3E	Car8-01-015	SN	ICP200	Metal Screen (ICP)
8801151-05A	3E	Car8-01-015	SN	ONG_IR	Oil & Grease
8801151-05A	3E	Car8-01-015	SN	AS_G	Metals
8801151-05A	3E	Car8-01-015	SN	SE_G	Metals
8802004-01A	10D	Car8-01-018	SN	AS_G	Metals
8802004-01A	10D	Car8-01-018	SN	HG_C	Metals
8802004-01A	10D	Car8-01-018	SN	ICP200	Metal Screen (ICP)
8802004-01A	10D	Car8-01-018	SN	ONG_IR	Oil & Grease
8802004-01A	10D	Car8-01-018	SN	PB_G	Metals
8802004-01A	10D	Car8-01-018	SN	SE_G	Metals
8802004-02A	10E	Car8-01-020	SN	AS_G	Metals
8802004-02A	10E	Car8-01-020	SN	SE_G	Metals
8802004-02A	10E	Car8-01-020	SN	HG_C	Metals
8802004-02A	10E	Car8-01-020	SN	ICP200	Metal Screen (ICP)
8802004-02A	10E	Car8-01-020	SN	ONG_IR	Oil & Grease
8802004-02A	10E	Car8-01-020	SN	PB_G	Metals
8802004-03A	10E	Car8-01-023	SN	AS_G	Metals
8802004-03A	10E	Car8-01-023	SN	SE_G	Metals
8802004-03A	10E	Car8-01-023	SN	HG_C	Metals
8802004-03A	10E	Car8-01-023	SN	ICP200	Metal Screen (ICP)
8802004-03A	10E	Car8-01-023	SN	ONG_IR	Oil & Grease
8802004-03A	10E	Car8-01-023	SN	PB_G	Metals
8802004-04A	10F	Car8-01-030	SD	AS_G	Metals
8802004-04A	10F	Car8-01-030	SD	HG_C	Metals
8802004-04A	10F	Car8-01-030	SD	ICP200	Metal Screen (ICP)

Lab ID	Location ID	Sample ID	Sample Type	Method Code	Method
8802004-04A	10F	Car8-01-030	SD	ONG_IR	Oil & Grease
8802004-04A	10F	Car8-01-030	SD	PB_G	Metals
8802004-04A	10F	Car8-01-030	SD	SE_G	Metals
8802004-05A	10F	Car8-01-031	SD	AS_G	Metals
8802004-05A	10F	Car8-01-031	SD	HG_C	Metals
8802004-05A	10F	Car8-01-031	SD	SE_G	Metals
8802004-05A	10F	Car8-01-031	SD	ICP200	Metal Screen (ICP)
8802004-05A	10F	Car8-01-031	SD	ONG_IR	Oil & Grease
8802004-05A	10F	Car8-01-031	SD	PB_G	Metals
8802028-01A	5D	Car8-01-034	SN	AS_G	Metals
8802028-01A	5D	Car8-01-034	SN	HG_C	Metals
8802028-01A	5D	Car8-01-034	SN	ICP200	Metal Screen (ICP)
8802028-01A	5D	Car8-01-034	SN	ONG_IR	Oil & Grease
8802028-01A	5D	Car8-01-034	SN	SE_G	Metals
8802028-02A	5E	Car8-02-003	SN	AS_G	Metals
8802028-02A	5E	Car8-02-003	SN	HG_C	Metals
8802028-02A	5E	Car8-02-003	SN	ICP200	Metal Screen (ICP)
8802028-02A	5E	Car8-02-003	SN	ONG_IR	Oil & Grease
8802028-02A	5E	Car8-02-003	SN	SE_G	Metals
8802028-03A	5E	Car8-02-006	SN	AS_G	Metals
8802028-03A	5E	Car8-02-006	SN	SE_G	Metals
8802028-03A	5E	Car8-02-006	SN	HG_C	Metals
8802028-03A	5E	Car8-02-006	SN	ICP200	Metal Screen (ICP)
8802028-03A	5E	Car8-02-006	SN	ONG_IR	Oil & Grease
8802028-04A	4G	Car8-02-009	SN	AS_G	Metals
8802028-04A	4G	Car8-02-009	SN	HG_C	Metals
8802028-04A	4G	Car8-02-009	SN	ICP200	Metal Screen (ICP)
8802028-04A	4G	Car8-02-009	SN	ONG_IR	Oil & Grease
8802028-04A	4G	Car8-02-009	SN	SE_G	Metals
8802072-01A	5G	Car8-02-012	SN	HG_C	Metals
8802072-01A	5G	Car8-02-012	SN	AS_G	Metals
8802072-01A	5G	Car8-02-012	SN	ICP200	Metal Screen (ICP)
8802072-01A	5G	Car8-02-012	SN	SE_G	Metals
8802072-01A	5G	Car8-02-012	SN	ONG_IR	Oil & Grease
8802072-02A	5H	Car8-02-015	SN	AS_G	Metals
8802072-02A	5H	Car8-02-015	SN	HG_C	Metals
8802072-02A	5H	Car8-02-015	SN	ICP200	Metal Screen (ICP)
8802072-02A	5H	Car8-02-015	SN	ONG_IR	Oil & Grease
8802072-02A	5H	Car8-02-015	SN	SE_G	Metals
8802072-03A	5F	Car8-02-018	SN	AS_G	Metals
8802072-03A	5F	Car8-02-018	SN	HG_C	Metals
8802072-03A	5F	Car8-02-018	SN	ICP200	Metal Screen (ICP)
8802072-03A	5F	Car8-02-018	SN	ONG_IR	Oil & Grease
8802072-03A	5F	Car8-02-018	SN	SE_G	Metals
8802072-04A	5F	Car8-02-021	SN	AS_G	Metals
8802072-04A	5F	Car8-02-021	SN	SE_G	Metals

Lab ID	Location ID	Sample ID	Sample Type	Method Code	Method
8802072-04A	5F	Car8-02-021	SN	HG_C	Metals
8802072-04A	5F	Car8-02-021	SN	ICP200	Metal Screen (ICP)
8802072-04A	5F	Car8-02-021	SN	ONG_IR	Oil & Grease
8802072-05A	4H	Car8-02-024	SN	AS_G	Metals
8802072-05A	4H	Car8-02-024	SN	HG_C	Metals
8802072-05A	4H	Car8-02-024	SN	ICP200	Metal Screen (ICP)
8802072-05A	4H	Car8-02-024	SN	ONG_IR	Oil & Grease
8802072-05A	4H	Car8-02-024	SN	SE_G	Metals
8802072-06A	4F	Car8-02-029	SD	HG_C	Metals
8802072-06A	4F	Car8-02-029	SD	ICP200	Metal Screen (ICP)
8802072-06A	4F	Car8-02-029	SD	AS_G	Metals
8802072-06A	4F	Car8-02-029	SD	ONG_IR	Oil & Grease
8802072-06A	4F	Car8-02-029	SD	SE_G	Metals
8802072-07A	4F	Car8-02-030	SD	AS_G	Metals
8802072-07A	4F	Car8-02-030	SD	HG_C	Metals
8802072-07A	4F	Car8-02-030	SD	ICP200	Metal Screen (ICP)
8802072-07A	4F	Car8-02-030	SD	ONG_IR	Oil & Grease
8802072-07A	4F	Car8-02-030	SD	SE_G	Metals
8802084-01A	1E	Car8-02-033	SN	AS_G	Metals
8802084-01A	1E	Car8-02-033	SN	HG_C	Metals
8802084-01A	1E	Car8-02-033	SN	ICP200	Metal Screen (ICP)
8802084-01A	1E	Car8-02-033	SN	ONG_IR	Oil & Grease
8802084-01A	1E	Car8-02-033	SN	SE_G	Metals
8802084-02A	1E	Car8-02-036	SN	HG_C	Metals
8802084-02A	1E	Car8-02-036	SN	AS_G	Metals
8802084-02A	1E	Car8-02-036	SN	ICP200	Metal Screen (ICP)
8802084-02A	1E	Car8-02-036	SN	SE_G	Metals
8802084-02A	1E	Car8-02-036	SN	ONG_IR	Oil & Grease
8802084-03A	1F	Car8-02-039	SN	AS_G	Metals
8802084-03A	1F	Car8-02-039	SN	HG_C	Metals
8802084-03A	1F	Car8-02-039	SN	ICP200	Metal Screen (ICP)
8802084-03A	1F	Car8-02-039	SN	ONG_IR	Oil & Grease
8802084-03A	1F	Car8-02-039	SN	SE_G	Metals
8802084-04A	1F	Car8-02-042	SN	AS_G	Metals
8802084-04A	1F	Car8-02-042	SN	HG_C	Metals
8802084-04A	1F	Car8-02-042	SN	ICP200	Metal Screen (ICP)
8802084-04A	1F	Car8-02-042	SN	ONG_IR	Oil & Grease
8802084-04A	1F	Car8-02-042	SN	SE_G	Metals
8802084-05A	BSSC	Car8-02-044	SN	HC_IR	Petroleum Hydrocarbons
8802084-05A	BSSC	Car8-02-044	SN	PB_G	Metals
8802084-06A	BSSD	Car8-02-046	SN	HC_IR	Petroleum Hydrocarbons
8802084-06A	BSSD	Car8-02-046	SN	PB_G	Metals
8802084-07A	BSSB	Car8-02-048	SN	HC_IR	Petroleum Hydrocarbons
8802084-07A	BSSB	Car8-02-048	SN	PB_G	Metals
8802084-08A	BSSA	Car8-02-050	SD	HC_IR	Petroleum Hydrocarbons
8802084-08A	BSSA	Car8-02-050	SD	PB_G	Metals

Lab ID	Location ID	Sample ID	Sample Type	Method Code	Method
8802084-09A	BSSA	Car8-02-052	SD	HC_IR	Petroleum Hydrocarbons
8802084-09A	BSSA	Car8-02-052	SD	PB_G	Metals
8802084-10A	17I	Car8-02-054	SN	HC_IR	Petroleum Hydrocarbons
8802084-10A	17I	Car8-02-054	SN	PB_G	Metals
8802084-11A	17I	Car8-02-056	SN	HC_IR	Petroleum Hydrocarbons
8802084-11A	17I	Car8-02-056	SN	PB_G	Metals
S802085-01A	12H	Car8-02-112	SN	CL8270	Semivolatile Organic Compounds
S802085-01A	12H	Car8-02-112	SN	DRY_WT	Soil Moisture
S802085-02A	12H	Car8-02-114	SN	CL8240	Volatile Organic Compounds
S802085-03A	12H	Car8-02-115	SN	CL8270	Semivolatile Organic Compounds
S802085-03A	12H	Car8-02-115	SN	DRY_WT	Soil Moisture
S802085-04A	12H	Car8-02-117	SN	CL8240	Volatile Organic Compounds
S802085-05A	12H	Car8-02-118	SN	CL8270	Semivolatile Organic Compounds
S802085-05A	12H	Car8-02-118	SN	DRY_WT	Soil Moisture
S802088-01A	12I	Car8-02-120	SN	CL8240	Volatile Organic Compounds
S802088-02A	12I	Car8-02-121	SN	CL8270	Semivolatile Organic Compounds
S802088-02A	12I	Car8-02-121	SN	DRY_WT	Soil Moisture
S802088-03A	12I	Car8-02-123	SN	CL8240	Volatile Organic Compounds
S802088-04A	12I	Car8-02-124	SN	CL8270	Semivolatile Organic Compounds
S802088-04A	12I	Car8-02-124	SN	DRY_WT	Soil Moisture
S802088-05A	12I	Car8-02-126	SN	CL8240	Volatile Organic Compounds
S802088-06A	12I	Car8-02-127	SN	CL8270	Semivolatile Organic Compounds
S802088-06A	12I	Car8-02-127	SN	DRY_WT	Soil Moisture
S802088-07A	12J	Car8-02-129	SD	CL8240	Volatile Organic Compounds
S802088-08A	12J	Car8-02-130	SD	CL8270	Semivolatile Organic Compounds
S802088-08A	12J	Car8-02-130	SD	DRY_WT	Soil Moisture
S802088-09A	12J	Car8-02-132	SD	CL8240	Volatile Organic Compounds
S802088-10A	12J	Car8-02-133	SD	CL8270	Semivolatile Organic Compounds
S802088-10A	12J	Car8-02-133	SD	DRY_WT	Soil Moisture
S802088-11A	12J	Car8-02-135	SN	CL8240	Volatile Organic Compounds
S802088-12A	12J	Car8-02-136	SN	CL8270	Semivolatile Organic Compounds
S802088-12A	12J	Car8-02-136	SN	DRY_WT	Soil Moisture
S802088-13A	12J	Car8-02-138	SN	CL8240	Volatile Organic Compounds
S802088-14A	12J	Car8-02-139	SN	CL8270	Semivolatile Organic Compounds
S802088-14A	12J	Car8-02-139	SN	DRY_WT	Soil Moisture
S802089-01A	17	Car8-02-141	SN	CL8240	Volatile Organic Compounds
S802089-02A	17	Car8-02-142	SN	CL8270	Semivolatile Organic Compounds
S802089-02A	17	Car8-02-142	SN	DRY_WT	Soil Moisture
S802089-03A	BSS	Car8-02-144	SN	CL8240	Volatile Organic Compounds
S802089-04A	BSS	Car8-02-145	SN	CL8270	Semivolatile Organic Compounds
S802089-04A	BSS	Car8-02-145	SN	DRY_WT	Soil Moisture
S802090-01A	3D	02-150	N	604	Phenols
S802090-01B	3D	02-150	N	608	Organochlorine Pesticides
S802090-01C	3D	02-150	N	CL_625	Extractable Priority Pollutants
S802090-01D	3D	02-150	N	509B	Chlorinated Phenoxy Acid Herbicides
S802090-02A	11A	02-151	N	CL_625	Extractable Priority Pollutants

Lab ID	Location ID	Sample ID	Sample Type	Method Code	Method
S802094-01A	17	Car8-02-143	SN	AS_GF	Metals
S802094-01A	17	Car8-02-143	SN	BA_EM	Metal Screen (ICP)
S802094-01A	17	Car8-02-143	SN	CD_EM	Metal Screen (ICP)
S802094-01A	17	Car8-02-143	SN	AG_EM	Metal Screen (ICP)
S802094-01A	17	Car8-02-143	SN	CR_EM	Metal Screen (ICP)
S802094-01A	17	Car8-02-143	SN	SE_GF	Metals
S802094-01A	17	Car8-02-143	SN	HG_CV	Metals
S802094-01A	17	Car8-02-143	SN	PB_GF	Metals
S802094-01B	17	Car8-02-143	SN	8080	Organochlorine Pesticides and PCBs
S802094-01C	17	Car8-02-143	SN	8150	Chlorinated Phenoxy Herbicides
S802094-02A	BSS	Car8-02-146	SN	AG_EM	Metal Screen (ICP)
S802094-02A	BSS	Car8-02-146	SN	AS_GF	Metals
S802094-02A	BSS	Car8-02-146	SN	SE_GF	Metals
S802094-02A	BSS	Car8-02-146	SN	BA_EM	Metal Screen (ICP)
S802094-02A	BSS	Car8-02-146	SN	CD_EM	Metal Screen (ICP)
S802094-02A	BSS	Car8-02-146	SN	CR_EM	Metal Screen (ICP)
S802094-02A	BSS	Car8-02-146	SN	HG_CV	Metals
S802094-02A	BSS	Car8-02-146	SN	PB_GF	Metals
S802094-02B	BSS	Car8-02-146	SN	8080	Organochlorine Pesticides and PCBs
S802094-02C	BSS	Car8-02-146	SN	8150	Chlorinated Phenoxy Herbicides
S802099-01A	12A	02-154	N	CL_625	Extractable Priority Pollutants
S802099-02A	4B	02-156	N	CL_625	Extractable Priority Pollutants
S802099-03A	1A	02-159	N	CL_625	Extractable Priority Pollutants

RADIAN CORPORATION

RAS - Austin REPORT

Work Order # 88-01-151

Received: 01/28/88

Results By Test

SAMPLE Sample Id	Test: AS G ug/ml	Test: D3050F date complete	Test: D3050P date complete	Test: QNG IR mg/L	Test: PREP W date complete
01 Car-01-003	6.6 ug/g	02/13/88	02/12/88	48 ug/g	02/04/88
02 Car-01-006	11R ug/g	02/13/88	02/12/88	32 ug/g	02/04/88
03 Car-01-009	5.2 ug/g	02/13/88	02/12/88	<5 ug/g	02/04/88
04 Car-01-012	6.5 ug/g	02/12/88	02/13/88	<5 ug/g	02/04/88
05 Car-01-015	4.8 ug/g	02/13/88	02/12/88	<5 ug/g	02/04/88

SAMPLE Sample Id	Test: SE G ug/ml
01 Car-01-003	<0.29 ug/g
02 Car-01-006	<0.29R ug/g
03 Car-01-009	<1.20 ug/g
04 Car-01-012	<0.3 ug/g
05 Car-01-015	<0.3 ug/g

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-01-151

Received: 01/28/88 04/22/88 13:46:39

REPORT TO: Radian
Bl. 4
Austin

ATTEN: Larry French

CLIENT: CARSWELL D04 SAMPLES: 5
COMPANY: Carswell AFB
FACILITY: IRP

PREPARED BY: Radian Analytical Services
8501 Mo-pac Bl.
PO Box 201088
Austin, TX 78720-1088

ATTEN:
PHONE: 512-454-4797

CERTIFIED BY

CONTACT: SMITH

WORK ID: soils 01
TAKEN: GJC
TRANS: Fed Ex
TYPE:
P.O. #: 227-005-04-40
INVOICE: under separate cover

Footnotes and Comments

* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between 50 and 100%.

@ Indicates that spike recovery for this analysis on the specific matrix was not within acceptable limits indicating an interferent present.

SAMPLE IDENTIFICATION

01	Car-01-003
02	Car-01-006
03	Car-01-009
04	Car-01-012
05	Car-01-015

TEST CODES and NAMES used on this report

AS G	Arsenic, graphite AA
D3050F	Digestion, meth.3050, AA
D3050P	Digestion,method 3050, ICP
HG C	Mercury, cold vapor
ICP200	ICPES, EPA 200.7 elements
ONG IR	Oil and grease, infrared
PREP W	Special preparation
SE G	Selenium, graphite AA

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-01-151

SAMPLE ID Car-01-003

FRACTION 01A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 01/26/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/17/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-01-151

SAMPLE ID Car-01-003

FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/26/88 Category

ANALYST DEB

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.83	Mg	Magnesium	2100R	9.3
Al	Aluminum	6600B	19	Mn	Manganese	170	0.28
As	Arsenic	ND,R	28	Mo	Molybdenum	ND	19
B	Boron	ND,R	56	Na	Sodium	140	7.4
Ba	Barium	24	0.83	Ni	Nickel	6*	1.9
Be	Beryllium	0.13*	0.093	Pb	Lead	ND	4.6
Ca	Calcium	160000B	22	Sb	Antimony	40*R	22
Cd	Cadmium	ND	0.28	Se	Selenium	ND	28
Co	Cobalt	ND	0.93	Si	Silicon	350R	28
Cr	Chromium	10	0.83	Tl	Thallium	ND	33
Cu	Copper	ND	0.93	V	Vanadium	16	1.9
Fe	Iron	6700B	2.8	Zn	Zinc	12	0.56
K	Potassium	700R	110				

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-01-151

SAMPLE ID Car-01-006

FRACTION 02A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 01/26/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403

ANALYZED 02/17/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-01-151
Continued From Above

SAMPLE ID Car-01-003

FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/26/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-01-151
Continued From Above

SAMPLE ID Car-01-006

FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/26/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

RAS - Austin REPORT

Work Order # 88-01-151

Received: 01/28/88

Results by Sample

SAMPLE ID Car-01-006 FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 01/26/88 Category

ANALYST DES

VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.87	Mg	Magnesium	2400	9.6
Al	Aluminum	9500^	19	Mn	Manganese	110^	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	19
B	Boron	ND	58	Na	Sodium	130E	7.7
Ba	Barium	29E	0.87	Ni	Nickel	11E	1.9
Be	Beryllium	0.53E	0.096	Pb	Lead	10*	4.8
Ca	Calcium	120000^	23	Sb	Antimony	40*	23
Cd	Cadmium	ND	0.29	Se	Selenium	ND	29
Co	Cobalt	2.2*	0.96	Si	Silicon	360^	29
Cr	Chromium	15E	0.87	Tl	Thallium	ND	35
Cu	Copper	5.2	0.96	V	Vanadium	14^E	1.9
Fe	Iron	14000E	2.9	Zn	Zinc	22^	0.58
K	Potassium	2200^	120				

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-01-151

Received: 01/28/88 Results by Sample

SAMPLE ID Car-01-009 FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 01/27/88 Category

ANALYST DES VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.81	Mg	Magnesium	2300	9.0
Al	Aluminum	6500	18	Mn	Manganese	120	0.27
As	Arsenic	ND	27	Mo	Molybdenum	ND	18
B	Boron	ND	54	Na	Sodium	230	7.2
Ba	Barium	20	0.81	Ni	Nickel	4*	1.8
Be	Beryllium	0.21*	0.090	Pb	Lead	5*	4.5
Ca	Calcium	220000	22	Sb	Antimony	90*	22
Cd	Cadmium	ND	0.27	Se	Selenium	ND	27
Co	Cobalt	ND	0.90	Si	Silicon	260	27
Cr	Chromium	12	0.81	Tl	Thallium	40*	32
Cu	Copper	ND	0.90	V	Vanadium	22	1.8
Fe	Iron	6500	2.7	Zn	Zinc	10	0.54
K	Potassium	800	110				

RADIAN CORPORATION

RAS - Austin REPORT

Work Order # 88-01-151

Received: 01/28/88

Results by Sample

SAMPLE ID Car-01-009 FRACTION 03A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 01/27/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403 ANALYZED 02/17/88 UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-01-151

SAMPLE ID Car-01-012

FRACTION 04A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 01/27/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/17/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

Received: 01/28/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-01-151
Continued From Above

SAMPLE ID Car-01-009

FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/27/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-01-151
Continued From Above

SAMPLE ID Car-01-012

FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/27/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-01-151

Received: 01/28/88 Results by Sample

SAMPLE ID Car-01-012 FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 01/27/88 Category

ANALYST DES VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.86	Mg	Magnesium	2500	9.5
Al	Aluminum	3800	19	Mn	Manganese	280	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	19
B	Boron	ND	57	Na	Sodium	190	7.6
Ba	Barium	41	0.86	Ni	Nickel	4*	1.9
Be	Beryllium	0.10*	0.095	Pb	Lead	ND	4.8
Ca	Calcium	270000	23	Sb	Antimony	50*	23
Cd	Cadmium	ND	0.29	Se	Selenium	ND	29
Co	Cobalt	1.5*	0.95	Si	Silicon	340	29
Cr	Chromium	9.2	0.86	Tl	Thallium	ND	34
Cu	Copper	ND	0.95	V	Vanadium	22	1.9
Fe	Iron	6900	2.9	Zn	Zinc	6.4	0.97
K	Potassium	400*	110				

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-01-151

SAMPLE ID Car-01-015

FRACTION 05A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 01/27/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/17/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 01/28/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-01-151

SAMPLE ID Car-01-015 FRACTION 05A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 01/27/88 Category

ANALYST DES

VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.83	Mg	Magnesium	2400	9.2
Al	Aluminum	4600	18	Mn	Manganese	220	0.28
As	Arsenic	ND	28	Mo	Molybdenum	ND	18
B	Boron	ND	55	Na	Sodium	150	7.3
Ba	Barium	27	0.83	Ni	Nickel	3*	1.8
Be	Beryllium	0.10*	0.092	Pb	Lead	ND	4.6
Ca	Calcium	260000	22	Sb	Antimony	70*	22
Cd	Cadmium	ND	0.28	Se	Selenium	ND	28
Co	Cobalt	ND	0.92	Si	Silicon	350	28
Cr	Chromium	9.6	0.83	Tl	Thallium	ND	33
Cu	Copper	ND	0.92	V	Vanadium	17	1.8
Fe	Iron	6000	2.8	Zn	Zinc	8.8	0.55
K	Potassium	500*	110				

SAMPLE ID Car-01-015 FRACTION 05A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/27/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # SB-01-166

Received: 01/28/88

07/25/88 07:37:33

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 14
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: Site 3
TAKEN: 1/26 - 1/27/87
TRANS: Fed EX 5910118001
TYPE: soil
P.O. #: 227-005-04-40
INV. #: 5001913

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

Lucas A Petkovich
CERTIFIED BY

CONTACT: LARRY FRENCH

Previously Reported on 03/02/88.

SAMPLE IDENTIFICATION

01 CAR-01-001 SOIL
02 CAR-01-002 SOIL
03 CAR-01-004 SOIL
04 CAR-01-005 SOIL
05 CAR-01-007 SOIL
06 CAR-01-008 SOIL
07 CAR-01-010 SOIL
08 CAR-01-011 SOIL
09 CAR-01-013 SOIL
10 CAR-01-014 SOIL
11 CAR-01-004 MATRIX SPIKE
11 CAR-01-004 MS DUP
12 CAR-01-005 MATRIX SPIKE
12 CAR-01-005 MS DUP
13 REAGENT BLANK
14 REAGENT BLANK

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

Received: 01/28/88

RAS Sacramento REPORT

Results By Test

Work Order # S8-01-166

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed		01/28/88 DATE COMPLETED		01/28/88 DATE COMPLETED	
DRY_WT % moisture		11 % MOISTURE		17 % MOISTURE	
EX_BNA date completed		01/29/88 DATE COMPLETED		01/29/88 DATE COMPLETED	
GPC date completed		01/29/88 DATE COMPLETED		01/29/88 DATE COMPLETED	
VOA_S date completed	01/28/88 date complete		01/28/88 date complete		01/28/88 date complete

TEST CODE default units	Sample 06 (entered units)	Sample 07 (entered units)	Sample 08 (entered units)	Sample 09 (entered units)	Sample 10 (entered units)
BNA_S date completed	01/28/88 DATE COMPLETED		01/28/88 DATE COMPLETED		01/28/88 DATE COMPLETED
DRY_WT % moisture	17 % MOISTURE		11 % MOISTURE		8 % MOISTURE
EX_BNA date completed	01/29/88 DATE COMPLETED		01/29/88 DATE COMPLETED		01/29/88 DATE COMPLETED
GPC date completed	01/29/88 DATE COMPLETED		01/29/88 DATE COMPLETED		01/29/88 DATE COMPLETED
VOA_S date completed		01/28/88 date complete		01/28/88 date complete	

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # SB-01-166

Received: 01/28/88

Results By Test

TEST CODE default units	Sample 12 (entered units)	Sample 14 (entered units)
EX_BNA date completed	01/29/88 DATE COMPLETED	01/29/88 DATE COMPLETED
	01/29/88 DATE COMPLETED	
GPC date completed	01/29/88 DATE COMPLETED	
	01/29/88 DATE COMPLETED	

Received: 01/28/88

RAS Sacramento REPORT

Results By Test

Work Order # S8-01-166

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR-01-001 SOIL					01/28/88 date complete
02 CAR-01-002 SOIL	01/28/88 DATE COMPLETED	11 % MOISTURE	01/29/88 DATE COMPLETED	01/29/88 DATE COMPLETED	
03 CAR-01-004 SOIL					01/28/88 date complete
04 CAR-01-005 SOIL	01/28/88 DATE COMPLETED	17 % MOISTURE	01/29/88 DATE COMPLETED	01/29/88 DATE COMPLETED	
05 CAR-01-007 SOIL					01/28/88 date complete
06 CAR-01-008 SOIL	01/28/88 DATE COMPLETED	17 % MOISTURE	01/29/88 DATE COMPLETED	01/29/88 DATE COMPLETED	
07 CAR-01-010 SOIL					01/28/88 date complete
08 CAR-01-011 SOIL	01/28/88 DATE COMPLETED	11 % MOISTURE	01/29/88 DATE COMPLETED	01/29/88 DATE COMPLETED	
09 CAR-01-013 SOIL					01/28/88 date complete
10 CAR-01-014 SOIL	01/28/88 DATE COMPLETED	8 % MOISTURE	01/29/88 DATE COMPLETED	01/29/88 DATE COMPLETED	
12 CAR-01-005 MATR			01/29/88 DATE COMPLETED	01/29/88 DATE COMPLETED	
			01/29/88 DATE COMPLETED	01/29/88 DATE COMPLETED	
14 REAGENT BLANK			01/29/88 DATE COMPLETED		

Received: 01/28/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-001 SOIL

SAMPLE # 01 FRACTIONS: A,B

Date & Time Collected 01/26/88 Category

VOA S 01/28/88
date complete

RADIAN CORPORATION

RAS Sacramento REPORT Work Order # S8-01-166

Received: 01/28/88 Results by Sample

SAMPLE ID CAR-01-001 SOIL FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 01/26/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0116601A

INSTRMT F4 INJECTD 02/04/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
133	75-09-2	methylene chloride	26 B	3.1
143	67-64-1	acetone	20 B	8.4
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.3
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.3
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.5
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.5
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.3
	591-78-6	2-hexanone	ND	40

SAMPLE ID CAR-01-001 SOIL FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	52
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
	108-88-3	toluene	ND	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.1
	100-42-5	styrene	ND	3.4
	95-47-6	total xylenes	ND	5.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	93 %
404	Toluene-d8	99 %
511	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # SB-01-166

Received: 01/28/88

Results by Sample

SAMPLE ID CAR-01-002 SOIL SAMPLE # 02 FRACTIONS: A

Date & Time Collected 01/26/88 Category

BNA S 01/28/88 DATE COMPLETED DRY WT 11 % MOISTURE EX BNA 01/29/88 DATE COMPLETED GPC 01/29/88 DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-01-166

Received: 01/28/88

Results by Sample

SAMPLE ID CAR-01-002 SOIL FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 01/26/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 01/29/88 FILE # 0116602A VERIFIED LAK

INSTRMT F2 INJECTD 02/18/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	740
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	740
	111-44-4	bis(2-chloroethyl) ether	ND	420
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	330
	100-51-6	benzyl alcohol	ND	3700
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	740
	108-60-1	bis(2-chloroisopropyl)ether	ND	420
	106-44-5	4-methylphenol	ND	740
	621-64-7	n-nitroso-di-n-propylamine	ND	890
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	270
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3700
	111-91-1	bis(2-chloroethoxy)methane	ND	390
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	740
	87-68-3	hexachlorobutadiene	ND	67
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	740

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-002 SOIL FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	740
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3700
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3700
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	740
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	420
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3700
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	270
	85-01-8	phenanthrene	ND	400
	120-12-7	anthracene	ND	140
1236	84-74-2	di-n-butylphthalate	300 B	190
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3300
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	580
1564	117-81-7	bis(2-ethylhexyl)phthalate	250	190

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-002 SOIL

FRACTION 02A TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
	117-84-0	di-n-octyl phthalate	ND	190
	205-99-2	benzo(b)fluoranthene	ND	360
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
268	2-fluorophenol	66 %
411	d5-phenol	69 %
533	d5-nitrobenzene	74 %
807	2-fluorobiphenyl	73 %
1024	2,4,6-tribromophenol	64 %
1379	d14-terphenyl	113 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-004 SOIL

SAMPLE # 03 FRACTIONS: A,B,C
Date & Time Collected 01/26/88 Category

VOA S 01/28/88
date complete

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # SB-01-166

Received: 01/28/88

Results by Sample

SAMPLE ID CAR-01-004 SOIL

FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 01/26/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0116603A

INSTRMT F4 INJECTD 02/04/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	6.0
	74-83-9	bromomethane	ND	6.0
	75-01-4	vinyl chloride	ND	6.0
	75-00-3	chloroethane	ND	6.0
135	75-09-2	methylene chloride	6.5 B	3.3
146	67-64-1	acetone	34 B	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	6.0
	75-35-4	1,1-dichloroethene	ND	5.6
	75-34-3	1,1-dichloroethane	ND	3.3
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.2
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	6.0
	79-01-6	trichloroethene	ND	2.3
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	6.0
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	6.0
	110-75-8	2-chloroethylvinyl ether	ND	6.0
	75-25-2	bromoform	ND	5.6
	591-78-6	2-hexanone	ND	43

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-01-166
Continued From Above

SAMPLE ID CAR-01-004 SOIL FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	55
	127-18-4	tetrachloroethene	ND	4.9
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.2
	108-88-3	toluene	ND	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.6
	100-42-5	styrene	ND	3.6
	95-47-6	total xylenes	ND	5.5

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	96 %
404	Toluene-d8	101 %
511	BFB	96 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-005 SOIL SAMPLE # 04 FRACTIONS: A
Date & Time Collected 01/26/88 Category

BNA_S 01/28/88 DATE COMPLETED DRY_WT 17 % MOISTURE EX_BNA 01/29/88 DATE COMPLETED GPC 01/29/88 DATE COMPLETED

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-005 SOIL FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 01/29/88 FILE # 0116604A VERIFIED LAK
INSTRMT F2 INJECTD 02/18/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	800
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	800
	111-44-4	bis(2-chloroethyl) ether	ND	460
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	4000
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	800
	108-60-1	bis(2-chloroisopropyl)ether	ND	460
	106-44-5	4-methylphenol	ND	800
	621-64-7	n-nitroso-di-n-propylamine	ND	960
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	180
	88-75-5	2-nitrophenol	ND	290
	105-67-9	2,4-dimethylphenol	ND	220
	65-85-0	benzoic acid	ND	4000
	111-91-1	bis(2-chloroethoxy)methane	ND	430
	120-83-2	2,4-dichlorophenol	ND	220
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	130
	106-47-8	4-chloroaniline	ND	800
	87-68-3	hexachlorobutadiene	ND	72
	59-50-7	4-chloro-3-methylphenol	ND	240
	91-57-6	2-methylnaphthalene	ND	800

SAMPLE ID CAR-01-005 SOIL FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	480
	88-06-2	2,4,6-trichlorophenol	ND	220
	95-95-4	2,4,5-trichlorophenol	ND	800
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	4000
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	280
	99-09-2	3-nitroaniline	ND	4000
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3400
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	800
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	460
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	340
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	4000
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	290
	85-01-8	phenanthrene	ND	430
	120-12-7	anthracene	ND	150
1234	84-74-2	di-n-butylphthalate	720 B	200
	206-44-0	fluoranthene	ND	180
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	630
1562	117-81-7	bis(2-ethylhexyl)phthalate	190 J	200

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-01-166
Continued From Above

SAMPLE ID CAR-01-005 SOIL FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
1654	117-84-0	di-n-octyl phthalate	290	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	300
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	330

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
247	2-fluorophenol	64 %
400	d5-phenol	69 %
527	d5-nitrobenzene	71 %
804	2-fluorobiphenyl	74 %
1021	2,4,6-tribromophenol	59 %
1376	d14-terphenyl	121 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-007 SOIL

SAMPLE # 05 FRACTIONS: A,B,C
Date & Time Collected 01/27/88 Category

VOA S 01/28/88
date complete

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-007 SOIL

FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/27/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0116605A
INSTRMT F4 INJECTD 02/04/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.8
	74-83-9	bromomethane	ND	5.8
	75-01-4	vinyl chloride	ND	5.8
	75-00-3	chloroethane	ND	5.8
133	75-09-2	methylene chloride	2.9 B	3.2
145	67-64-1	acetone	27 B	8.7
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.8
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.4
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	8.0
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.8
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.6
	79-00-5	1,1,2-trichloroethane	ND	5.8
	71-43-2	benzene	ND	5.1
	10061-02-6	trans-1,3-dichloropropene	ND	5.8
	110-75-8	2-chloroethylvinyl ether	ND	5.8
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-007 SOIL FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	53
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.0
	108-88-3	toluene	ND	7.0
	108-90-7	chlorobenzene	ND	7.0
	100-41-4	ethylbenzene	ND	8.4
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	1,2-dichloroethane-d4	93 %
402	Toluene-d8	99 %
508	BFB	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-008 SOIL SAMPLE # 06 FRACTIONS: A
Date & Time Collected 01/27/88 Category

BNA S 01/28/88 DRY WT 17 EX BNA 01/29/88 GPC 01/29/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT

Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-008 SOIL

FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 01/27/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 01/29/88 FILE # 0116606A VERIFIED LAK

INSTRMT F2 INJECTD 02/18/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	800
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	800
	111-44-4	bis(2-chloroethyl) ether	ND	450
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	4000
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	800
	108-60-1	bis(2-chloroisopropyl)ether	ND	450
	106-44-5	4-methylphenol	ND	800
	621-64-7	n-nitroso-di-n-propylamine	ND	950
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	290
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	4000
	111-91-1	bis(2-chloroethoxy)methane	ND	420
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	130
	106-47-8	4-chloroaniline	ND	800
	87-68-3	hexachlorobutadiene	ND	72
	59-50-7	4-chloro-3-methylphenol	ND	240
	91-57-6	2-methylnaphthalene	ND	800

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-008 SOIL FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	480
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	800
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	4000
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	280
	99-09-2	3-nitroaniline	ND	4000
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3300
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	800
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	450
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	330
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	4000
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	290
	85-01-8	phenanthrene	ND	430
	120-12-7	anthracene	ND	150
1235	84-74-2	di-n-butylphthalate	110 BJ	200
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	620
1563	117-81-7	bis(2-ethylhexyl)phthalate	87 J	200

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-008 SOIL

FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
	117-84-0	di-n-octyl phthalate	ND	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	290
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	330

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
256	2-fluorophenol	59 %
405	d5-phenol	64 %
530	d5-nitrobenzene	68 %
805	2-fluorobiphenyl	70 %
1023	2,4,6-tribromophenol	56 %
1378	d14-terphenyl	119 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-010 SOIL

SAMPLE # 07 FRACTIONS: A,B,C
Date & Time Collected 01/27/88 Category

VOA S 01/28/88
date complete

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # SB-01-166

Received: 01/28/88

Results by Sample

SAMPLE ID CAR-01-010 SOIL

FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 01/27/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0116607A

INSTRMT F4 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
133	75-09-2	methylene chloride	6.1 B	3.1
	67-64-1	acetone	ND	8.4
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.3
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.3
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.5
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.5
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.3
	591-78-6	2-hexanone	ND	40

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-010 SOIL FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	52
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
405	108-88-3	toluene	7.6	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.1
	100-42-5	styrene	ND	3.4
	95-47-6	total xylenes	ND	5.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
226	1,2-dichloroethane-d4	95 %
402	Toluene-d8	100 %
507	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR-01-011 SOIL SAMPLE # 08 FRACTIONS: A
Date & Time Collected 01/27/88 Category

BNA S 01/28/88 DRY WT 11 EX BNA 01/29/88 GPC 01/29/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-01-166

Received: 01/28/88

Results by Sample

SAMPLE ID CAR-01-011 SOIL

FRACTION OBA TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 01/27/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 01/29/88 FILE # 0116608A VERIFIED LAK

INSTRMT F2 INJECTD 02/18/88 UNITS ug/kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	740
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	740
	111-44-4	bis(2-chloroethyl) ether	ND	420
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	330
	100-51-6	benzyl alcohol	ND	3700
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	740
	108-60-1	bis(2-chloroisopropyl)ether	ND	420
	106-44-5	4-methylphenol	ND	740
	621-64-7	n-nitroso-di-n-propylamine	ND	890
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	270
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3700
	111-91-1	bis(2-chloroethoxy)methane	ND	390
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	740
	87-68-3	hexachlorobutadiene	ND	67
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	740

SAMPLE ID CAR-01-011 SOIL FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	740
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3700
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3700
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	740
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	420
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3700
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	270
	85-01-8	phenanthrene	ND	400
	120-12-7	anthracene	ND	140
	84-74-2	di-n-butylphthalate	ND	190
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3300
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	580
1562	117-81-7	bis(2-ethylhexyl)phthalate	170 J	190

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-011 SOIL

FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
1654	117-84-0	di-n-octyl phthalate	500	190
	205-99-2	benzo(b)fluoranthene	ND	360
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
242	2-fluorophenol	59 %
397	d5-phenol	63 %
524	d5-nitrobenzene	71 %
802	2-fluorobiphenyl	70 %
1020	2,4,6-tribromophenol	54 %
1376	d14-terphenyl	126 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-01-166

SAMPLE ID CAR-01-013 SOIL

SAMPLE # 09 FRACTIONS: A,B,C
Date & Time Collected 01/27/88 Category

VOA S 01/28/88
date complete

Received: 01/28/88

RAS Sacramento REPORT Work Order # S8-01-166
Results by Sample

SAMPLE ID CAR-01-013 SOIL FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/27/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0116609A
INSTRMT F4 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.5
	74-83-9	bromomethane	ND	5.5
	75-01-4	vinyl chloride	ND	5.5
	75-00-3	chloroethane	ND	5.5
136	75-09-2	methylene chloride	4.4 B	3.1
145	67-64-1	acetone	16	8.2
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.5
	75-35-4	1,1-dichloroethene	ND	5.1
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.7
	67-66-3	chloroform	ND	1.7
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	27
	71-55-6	1,1,1-trichloroethane	ND	4.1
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.5
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.5
	10061-01-5	cis-1,3-dichloropropene	ND	5.5
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.4
	79-00-5	1,1,2-trichloroethane	ND	5.5
	71-43-2	benzene	ND	4.8
	10061-02-6	trans-1,3-dichloropropene	ND	5.5
	110-75-8	2-chloroethylvinyl ether	ND	5.5
	75-25-2	bromoform	ND	5.1
	591-78-6	2-hexanone	ND	39

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-013 SOIL

FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	50
	127-18-4	tetrachloroethene	ND	4.5
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.5
	108-88-3	toluene	ND	6.5
	108-90-7	chlorobenzene	ND	6.5
	100-41-4	ethylbenzene	ND	7.8
	100-42-5	styrene	ND	3.3
	95-47-6	total xylenes	ND	5.0

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	1,2-dichloroethane-d4	95 %
402	Toluene-d8	100 %
508	BFB	102 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-014 SOIL

SAMPLE # 10 FRACTIONS: A
Date & Time Collected 01/27/88 Category

BNA S 01/28/88 DATE COMPLETED
DRY WT 8 % MOISTURE
EX BNA 01/29/88 DATE COMPLETED
GPC 01/29/88 DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # SB-01-166

Received: 01/28/88

Results by Sample

SAMPLE ID CAR-01-014 SOIL FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 01/27/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 01/29/88 FILE # 0116610A VERIFIED LAK

INSTRMT F2 INJECTD 02/18/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	720
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	720
	111-44-4	bis(2-chloroethyl) ether	ND	410
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	320
	100-51-6	benzyl alcohol	ND	3600
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	720
	108-60-1	bis(2-chloroisopropyl)ether	ND	410
	106-44-5	4-methylphenol	ND	720
	621-64-7	n-nitroso-di-n-propylamine	ND	860
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	260
	105-67-9	2,4-dimethylphenol	ND	190
	65-85-0	benzoic acid	ND	3600
	111-91-1	bis(2-chloroethoxy)methane	ND	380
	120-83-2	2,4-dichlorophenol	ND	190
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	720
	87-68-3	hexachlorobutadiene	ND	65
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	720

SAMPLE ID CAR-01-014 SOIL FRACTION 10A TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	430
	88-06-2	2,4,6-trichlorophenol	ND	190
	95-95-4	2,4,5-trichlorophenol	ND	720
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3600
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	250
	99-09-2	3-nitroaniline	ND	3600
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3000
	100-02-7	4-nitrophenol	ND	170
	132-64-9	dibenzofuran	ND	720
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	410
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	300
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3600
	534-52-1	4,6-dinitro-2-methylphenol	ND	1700
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	260
	85-01-8	phenanthrene	ND	390
	120-12-7	anthracene	ND	140
	84-74-2	di-n-butylphthalate	ND	180
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3200
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	180
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	560
1562	117-81-7	bis(2-ethylhexyl)phthalate	100 J	180

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-014 SOIL

FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/27/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	180
1655	117-84-0	di-n-octyl phthalate	230	180
	205-99-2	benzo(b)fluoranthene	ND	350
	207-08-9	benzo(k)fluoranthene	ND	180
	50-32-8	benzo(a)pyrene	ND	180
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	180
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
248	2-fluorophenol	60 %
401	d5-phenol	66 %
527	d5-nitrobenzene	70 %
805	2-fluorobiphenyl	74 %
1022	2,4,6-tribromophenol	56 %
1377	d14-terphenyl	117 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR-01-004 MATRIX SPIKE FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/26/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0116611A
INSTRMT F4 INJECTD 02/04/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	NA	10
	74-83-9	bromomethane	NA	10
	75-01-4	vinyl chloride	NA	10
	75-00-3	chloroethane	NA	10
	75-09-2	methylene chloride	NA	5.6
	67-64-1	acetone	NA	15
	75-15-0	carbon disulfide	NA	3.4
	75-69-4	trichlorofluoromethane	NA	10
178	75-35-4	1,1-dichloroethene	73	9.4
	75-34-3	1,1-dichloroethane	NA	5.6
	156-60-5	trans-1,2-dichloroethene	NA	3.2
	67-66-3	chloroform	NA	3.2
	107-06-2	1,2-dichloroethane	NA	5.6
	78-93-3	2-butanone	NA	50
	71-55-6	1,1,1-trichloroethane	NA	7.6
	56-23-5	carbon tetrachloride	NA	5.6
	108-05-4	vinyl acetate	NA	14
	75-27-4	bromodichloromethane	NA	4.4
	78-87-5	1,2-dichloropropane	NA	12
	10061-01-5	cis-1,3-dichloropropene	NA	10
297	79-01-6	trichloroethene	82	3.8
	124-48-1	dibromochloromethane	NA	6.2
	79-00-5	1,1,2-trichloroethane	NA	10
306	71-43-2	benzene	77	8.8
	10061-02-6	trans-1,3-dichloropropene	NA	10
	110-75-8	2-chloroethylvinyl ether	NA	10
	75-25-2	bromoform	NA	9.4
	591-78-6	2-hexanone	NA	72

SAMPLE ID CAR-01-004 MATRIX SPIKE FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	NA	92
	127-18-4	tetrachloroethene	NA	8.2
	79-34-5	1,1,2,2-tetrachloroethane	NA	14
406	108-88-3	toluene	81	12
424	108-90-7	chlorobenzene	83	12
	100-41-4	ethylbenzene	NA	14
	100-42-5	styrene	NA	6.0
	95-47-6	total xylenes	NA	9.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	95 %
403	Toluene-d8	100 %
510	BFB	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

RAS Sacramento REPORT Work Order # S8-01-166

Received: 01/28/88

Results by Sample

SAMPLE ID CAR-01-004 MS DUP FRACTION 11B TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 01/26/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0116611B

INSTRMT F4 INJECTD 02/04/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	NA	10
	74-83-9	bromomethane	NA	10
	75-01-4	vinyl chloride	NA	10
	75-00-3	chloroethane	NA	10
	75-09-2	methylene chloride	NA	5.6
	67-64-1	acetone	NA	15
	75-15-0	carbon disulfide	NA	3.4
	75-69-4	trichlorofluoromethane	NA	10
177	75-35-4	1,1-dichloroethene	75	9.4
	75-34-3	1,1-dichloroethane	NA	5.6
	156-60-5	trans-1,2-dichloroethene	NA	3.2
	67-66-3	chloroform	NA	3.2
	107-06-2	1,2-dichloroethane	NA	5.6
	78-93-3	2-butanone	NA	50
	71-55-6	1,1,1-trichloroethane	NA	7.6
	56-23-5	carbon tetrachloride	NA	5.6
	108-05-4	vinyl acetate	NA	14
	75-27-4	bromodichloromethane	NA	4.4
	78-87-5	1,2-dichloropropane	NA	12
	10061-01-5	cis-1,3-dichloropropene	NA	10
296	79-01-6	trichloroethene	89	3.8
	124-48-1	dibromochloromethane	NA	6.2
	79-00-5	1,1,2-trichloroethane	NA	10
305	71-43-2	benzene	81	8.8
	10061-02-6	trans-1,3-dichloropropene	NA	10
	110-75-8	2-chloroethylvinyl ether	NA	10
	75-25-2	bromoform	NA	9.4
	591-78-6	2-hexanone	NA	72

SAMPLE ID CAR-01-004 MS DUP FRACTION 11B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	NA	92
	127-18-4	tetrachloroethene	NA	8.2
	79-34-5	1,1,2,2-tetrachloroethane	NA	14
405	108-88-3	toluene	88	12
423	108-90-7	chlorobenzene	92	12
	100-41-4	ethylbenzene	NA	14
	100-42-5	styrene	NA	6.0
	95-47-6	total xylenes	NA	9.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	1,2-dichloroethane-d4	94 %
402	Toluene-d8	101 %
509	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR-01-005 MATRIX SPIKE SAMPLE # 12 FRACTIONS: A
Date & Time Collected 01/26/88 Category

EX BNA 01/29/88 GPC 01/29/88
DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-01-166

Received: 01/28/88

Results by Sample

SAMPLE ID CAR-01-005 MATRIX SPIKE FRACTION 12A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 01/26/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 01/29/88 FILE # 0116612A VERIFIED LAK

INSTRMT F2 INJECTD 02/18/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	NA	10
411	108-95-2	phenol	65	1.5
	62-53-3	aniline	NA	10
	111-44-4	bis(2-chloroethyl) ether	NA	5.7
420	95-57-8	2-chlorophenol	65	3.3
	541-73-1	1,3-dichlorobenzene	NA	1.9
448	106-46-7	1,4-dichlorobenzene	62	4.4
	100-51-6	benzyl alcohol	NA	50
	95-50-1	1,2-dichlorobenzene	NA	1.9
	95-48-7	2-methylphenol	NA	10
	108-60-1	bis(2-chloroisopropyl)ether	NA	5.7
	106-44-5	4-methylphenol	NA	10
518	621-64-7	n-nitroso-di-n-propylamine	62	12
	67-72-1	hexachloroethane	NA	1.6
	98-95-3	nitrobenzene	NA	1.9
	78-59-1	isophorone	NA	2.2
	88-75-5	2-nitrophenol	NA	3.6
	105-67-9	2,4-dimethylphenol	NA	2.7
	65-85-0	benzoic acid	NA	50
	111-91-1	bis(2-chloroethoxy)methane	NA	5.3
	120-83-2	2,4-dichlorophenol	NA	2.7
631	120-82-1	1,2,4-trichlorobenzene	70	1.9
	91-20-3	naphthalene	NA	1.6
	106-47-8	4-chloroaniline	NA	10
	87-68-3	hexachlorobutadiene	NA	0.90
732	59-50-7	4-chloro-3-methylphenol	78	3.0
	91-57-6	2-methylnaphthalene	NA	10

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-005 MATRIX SPIKE FRACTION 12A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	NA	6.0
	88-06-2	2,4,6-trichlorophenol	NA	2.7
	95-95-4	2,4,5-trichlorophenol	NA	10
	91-58-7	2-chloronaphthalene	NA	1.9
	88-74-4	2-nitroaniline	NA	50
	131-11-3	dimethyl phthalate	NA	1.6
	208-96-8	acenaphthylene	NA	3.5
	99-09-2	3-nitroaniline	NA	50
906	83-32-9	acenaphthene	75	1.9
	51-28-5	2,4-dinitrophenol	NA	42
933	100-02-7	4-nitrophenol	77	2.4
	132-64-9	dibenzofuran	NA	10
	606-20-2	2,6-dinitrotoluene	NA	1.9
940	121-14-2	2,4-dinitrotoluene	73	5.7
	84-66-2	diethylphthalate	NA	1.9
	7005-72-3	4-chlorophenyl-phenylether	NA	4.2
	86-73-7	fluorene	NA	1.9
	100-01-06	4-nitroaniline	NA	50
	534-52-1	4,6-dinitro-2-methylphenol	NA	24
	86-30-6	n-nitrosodiphenylamine	NA	1.9
	101-55-3	4-bromophenyl-phenylether	NA	1.9
	118-74-1	hexachlorobenzene	NA	1.9
1107	87-86-5	pentachlorophenol	52	3.6
	85-01-8	phenanthrene	NA	5.4
	120-12-7	anthracene	NA	1.9
	84-74-2	di-n-butylphthalate	NA	2.5
	206-44-0	fluoranthene	NA	2.2
	92-87-5	benzidine	NA	44
1344	129-00-0	pyrene	43	1.9
	85-68-7	butylbenzylphthalate	NA	2.5
	91-94-1	3,3'-dichlorobenzidine	NA	17
	56-55-3	benzo(a)anthracene	NA	7.8
	117-81-7	bis(2-ethylhexyl)phthalate	NA	2.5

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-005 MATRIX SPIKE FRACTION 12A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	NA	2.5
	117-84-0	di-n-octyl phthalate	NA	2.5
	205-99-2	benzo(b)fluoranthene	NA	4.8
	207-08-9	benzo(k)fluoranthene	NA	2.5
	50-32-8	benzo(a)pyrene	NA	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	NA	3.7
	53-70-3	dibenz(a,h)anthracene	NA	2.5
	191-24-2	benzo(ghi)perylene	NA	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
266	2-fluorophenol	60 %
409	d5-phenol	62 %
531	d5-nitrobenzene	64 %
805	2-fluorobiphenyl	62 %
1022	2,4,6-tribromophenol	61 %
1377	d14-terphenyl	104 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 01/28/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-005 MS DUP

SAMPLE # 12 FRACTIONS: B
Date & Time Collected 01/26/88 Category

EX BNA 01/29/88 GPC 01/29/88
DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT

Results by Sample

Work Order # S8-01-166

SAMPLE ID CAR-01-005 MS DUP

FRACTION 12B TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 01/26/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 01/29/88 FILE # 0116612B VERIFIED LAK

INSTRMT F2 INJECTD 02/18/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	NA	10
407	108-95-2	phenol	65	1.5
	62-53-3	aniline	NA	10
	111-44-4	bis(2-chloroethyl) ether	NA	5.7
417	95-57-8	2-chlorophenol	65	3.3
	541-73-1	1,3-dichlorobenzene	NA	1.9
445	106-46-7	1,4-dichlorobenzene	64	4.4
	100-51-6	benzyl alcohol	NA	50
	95-50-1	1,2-dichlorobenzene	NA	1.9
	95-48-7	2-methylphenol	NA	10
	108-60-1	bis(2-chloroisopropyl)ether	NA	5.7
	106-44-5	4-methylphenol	NA	10
515	621-64-7	n-nitroso-di-n-propylamine	65	12
	67-72-1	hexachloroethane	NA	1.6
	98-95-3	nitrobenzene	NA	1.9
	78-59-1	isophorone	NA	2.2
	88-75-5	2-nitrophenol	NA	3.6
	105-67-9	2,4-dimethylphenol	NA	2.7
	65-85-0	benzoic acid	NA	50
	111-91-1	bis(2-chloroethoxy)methane	NA	5.3
	120-83-2	2,4-dichlorophenol	NA	2.7
628	120-82-1	1,2,4-trichlorobenzene	69	1.9
	91-20-3	naphthalene	NA	1.6
	106-47-8	4-chloroaniline	NA	10
	87-68-3	hexachlorobutadiene	NA	0.90
731	59-50-7	4-chloro-3-methylphenol	77	3.0
	91-57-6	2-methylnaphthalene	NA	10

SAMPLE ID CAR-01-005 MS DUP FRACTION 12B TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	NA	6.0
	88-06-2	2,4,6-trichlorophenol	NA	2.7
	95-95-4	2,4,5-trichlorophenol	NA	10
	91-58-7	2-chloronaphthalene	NA	1.9
	88-74-4	2-nitroaniline	NA	50
	131-11-3	dimethyl phthalate	NA	1.6
	208-96-8	acenaphthylene	NA	3.5
	99-09-2	3-nitroaniline	NA	50
906	83-32-9	acenaphthene	76	1.9
	51-28-5	2,4-dinitrophenol	NA	42
933	100-02-7	4-nitrophenol	86	2.4
	132-64-9	dibenzofuran	NA	10
	606-20-2	2,6-dinitrotoluene	NA	1.9
940	121-14-2	2,4-dinitrotoluene	73	5.7
	84-66-2	diethylphthalate	NA	1.9
	7005-72-3	4-chlorophenyl-phenylether	NA	4.2
	86-73-7	fluorene	NA	1.9
	100-01-06	4-nitroaniline	NA	50
	534-52-1	4,6-dinitro-2-methylphenol	NA	24
	86-30-6	n-nitrosodiphenylamine	NA	1.9
	101-55-3	4-bromophenyl-phenylether	NA	1.9
	118-74-1	hexachlorobenzene	NA	1.9
1108	87-86-5	pentachlorophenol	59	3.6
	85-01-8	phenanthrene	NA	5.4
	120-12-7	anthracene	NA	1.9
	84-74-2	di-n-butylphthalate	NA	2.5
	206-44-0	fluoranthene	NA	2.2
	92-87-5	benzidine	NA	44
1344	129-00-0	pyrene	38	1.9
	85-68-7	butylbenzylphthalate	NA	2.5
	91-94-1	3,3'-dichlorobenzidine	NA	17
	56-55-3	benzo(a)anthracene	NA	7.8
	117-81-7	bis(2-ethylhexyl)phthalate	NA	2.5

Received: 01/28/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID CAR-01-005 MS DUP

FRACTION 12B TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	NA	2.5
	117-84-0	di-n-octyl phthalate	NA	2.5
	205-99-2	benzo(b)fluoranthene	NA	4.8
	207-08-9	benzo(k)fluoranthene	NA	2.5
	50-32-8	benzo(a)pyrene	NA	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	NA	3.7
	53-70-3	dibenz(a,h)anthracene	NA	2.5
	191-24-2	benzo(ghi)perylene	NA	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
257	2-fluorophenol	60 %
405	d5-phenol	64 %
529	d5-nitrobenzene	64 %
804	2-fluorobiphenyl	65 %
1022	2,4,6-tribromophenol	59 %
1378	d14-terphenyl	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166

SAMPLE ID REAGENT BLANK

FRACTION 13A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0116613A
INSTRMT F4 INJECTD 02/04/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
137	75-09-2	methylene chloride	5.0	2.8
147	67-64-1	acetone	17	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

RADIAN CORPORATION

Received: 01/28/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-01-166
Continued From Above

SAMPLE ID REAGENT BLANK

FRACTION 13A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	95 %
404	Toluene-d8	98 %
511	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID REAGENT BLANK

SAMPLE # 14 FRACTIONS: A

Date & Time Collected not specified Category

EX BNA 01/29/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-01-166

Received: 01/28/88 Results by Sample

SAMPLE ID REAGENT BLANK FRACTION 14A TEST CODE CLB270 NAME Semivolatile Organics-Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 01/29/88 FILE # 0116614A VERIFIED LAK

INSTRMT F2 INJECTD 02/18/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

SAMPLE ID REAGENT BLANK FRACTION 14A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
1233	84-74-2	di-n-butylphthalate	460	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
	117-81-7	bis(2-ethylhexyl)phthalate	ND	170

SAMPLE ID REAGENT BLANK FRACTION 14A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
256	2-fluorophenol	63 %
405	d5-phenol	71 %
529	d5-nitrobenzene	67 %
804	2-fluorobiphenyl	72 %
1020	2,4,6-tribromophenol	61 %
1375	d14-terphenyl	123 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

03C	I	DUP624
05C	I	DUP624
07C	I	DUP624
09C	I	DUP624

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
02/26/88 08:29:44

Work Order # 58-02-002
Work Not Complete

REPORT TO
Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN Larry French

CLIENT CARSWELL AFB SAMPLES 13
COMPANY Carswell AFB.
FACILITY Headquarters, SAC
Offutt, Nebraska 68113

WORK ID Stage II
TAKEN 01/28-01/29/88
TRANS Federal 5910117780
TYPE Soil-8240/8270
P.O. # 227-005-04-40
INVOICE under separate cover

PREPARED BY
Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN
PHONE 916-362-5332

CERTIFIED BY

CONTACT LARRY FRENCH

QC = OUTSIDE CONTROL LIMITS.

SAMPLE IDENTIFICATION

01 CAR-01-016 VOA
02 CAR-01-017 BNA
03 CAR-01-019 VOA
04 CAR-01-021 BNA
05 CAR-01-022 VOA
06 CAR-01-024 BNA
07 CAR-01-025 VOA
08 CAR-01-026 VOA
09 CAR-01-027 VOA
10 CAR-01-028 BNA
11 CAR-01-029 BNA
12 REAGENT BLANK VOA
13 REAGENT BLANK BNA

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-002

Received: 02/01/88

Results By Test

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed		02/01/88 DATE COMPLETED		02/01/88 DATE COMPLETED	
DRY_WT % moisture		10 % MOISTURE		0 % MOISTURE	
EX_BNA date completed		02/02/88 DATE COMPLETED		02/02/88 DATE COMPLETED	
GPC date completed		02/02/88 DATE COMPLETED		02/02/88 DATE COMPLETED	
VOA_S date completed	02/01/88 DATE COMPLETED		02/01/88 DATE COMPLETED		02/01/88 DATE COMPLETED

TEST CODE default units	Sample 06 (entered units)	Sample 07 (entered units)	Sample 08 (entered units)	Sample 09 (entered units)	Sample 10 (entered units)
BNA_S date completed	02/01/88 DATE COMPLETED				02/01/88 DATE COMPLETED
DRY_WT % moisture	16 % MOISTURE				8 % MOISTURE
EX_BNA date completed	02/02/88 DATE COMPLETED				02/02/88 DATE COMPLETED
GPC date completed	02/02/88 DATE COMPLETED				02/02/88 DATE COMPLETED
VOA_S date completed		02/01/88 DATE COMPLETED	02/01/88 DATE COMPLETED 02/01/88 DATE COMPLETED	02/01/88 DATE COMPLETED	

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results By Test

Work Order # S8-02-002

TEST CODE default units	Sample 11 (entered units)	Sample 13 (entered units)
BNA_S date completed	02/01/88 DATE COMPLETED	
DRY_WT % moisture	9 % MOISTURE	
EX_BNA date completed	02/02/88 DATE COMPLETED	02/02/88 DATE COMPLETED
GPC date completed	02/02/88 DATE COMPLETED	

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-002

Received: 02/01/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR-01-016 VOA					02/01/88 DATE COMPLETED
02 CAR-01-017 BNA	02/01/88 DATE COMPLETED	10 % MOISTURE	02/02/88 DATE COMPLETED	02/02/88 DATE COMPLETED	
03 CAR-01-019 VOA					02/01/88 DATE COMPLETED
04 CAR-01-021 BNA	02/01/88 DATE COMPLETED	0 % MOISTURE	02/02/88 DATE COMPLETED	02/02/88 DATE COMPLETED	
05 CAR-01-022 VOA					02/01/88 DATE COMPLETED
06 CAR-01-024 BNA	02/01/88 DATE COMPLETED	16 % MOISTURE	02/02/88 DATE COMPLETED	02/02/88 DATE COMPLETED	
07 CAR-01-025 VOA					02/01/88 DATE COMPLETED
08 CAR-01-026 VOA					02/01/88 DATE COMPLETED
					02/01/88 DATE COMPLETED
09 CAR-01-027 VOA					02/01/88 DATE COMPLETED
10 CAR-01-028 BNA	02/01/88 DATE COMPLETED	8 % MOISTURE	02/02/88 DATE COMPLETED	02/02/88 DATE COMPLETED	
11 CAR-01-029 BNA	02/01/88 DATE COMPLETED	9 % MOISTURE	02/02/88 DATE COMPLETED	02/02/88 DATE COMPLETED	
13 REAGENT BLANK B			02/02/88 DATE COMPLETED		

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-016 VOA

SAMPLE # 01 FRACTIONS: A,B,C
Date & Time Collected 01/28/88 Category

VOA_S 02/01/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-002

Received: 02/01/88 Results by Sample

SAMPLE ID CAR-01-016 VOA FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 01/28/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200201A

INSTRMT 5100 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
80	75-09-2	methylene chloride	1.8 J	3.1
94	67-64-1	acetone	13 B	8.3
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.2
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.2
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.4
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.2
	591-78-6	2-hexanon	ND	40

KADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-016 VOA

FRACTION 01A TEST CODE CLB240 NAME Purgeable Organics - Soil
Date & Time Collected 01/28/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	51
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
	108-88-3	toluene	ND	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.0
	100-42-5	styrene	ND	3.3
	95-47-6	total xylenes	ND	5.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
194	1,2-dichloroethane-d4	79 %
388	Toluene-d8	102 %
483	BFB	106 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR-01-017 BNA SAMPLE # 02 FRACTIONS: A
Date & Time Collected 01/28/88 Category

BNA S 02/01/88 DRY WT 10 EX BNA 02/02/88 GPC 02/02/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-002

SAMPLE ID CAR-01-017 BNA FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/28/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/02/88 FILE # 0200202A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	730
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	730
	111-44-4	bis(2-chloroethyl) ether	ND	420
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	320
	100-51-6	benzyl alcohol	ND	3700
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	730
	108-60-1	bis(2-chloroisopropyl)ether	ND	420
	106-44-5	4-methylphenol	ND	730
	621-64-7	n-nitroso-di-n-propylamine	ND	880
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	260
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3700
	111-91-1	bis(2-chloroethoxy)methane	ND	390
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	730
	87-68-3	hexachlorobutadiene	ND	66
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	730

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-017 BNA FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/28/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	730
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3700
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3700
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	730
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	420
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3700
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	260
	85-01-8	phenanthrene	ND	390
	120-12-7	anthracene	ND	140
1232	84-74-2	di-n-butylphthalate	100 BJ	180
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3200
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	180
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	570
1558	117-81-7	bis(2-ethylhexyl)phthalate	360	180

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-017 BNA

FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/28/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	180
	117-84-0	di-n-octyl phthalate	ND	180
	205-99-2	benzo(b)fluoranthene	ND	350
	207-08-9	benzo(k)fluoranthene	ND	180
	50-32-8	benzo(a)pyrene	ND	180
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	180
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
265	2-fluorophenol	69 %
409	d5-phenol	77 %
531	d5-nitrobenzene	72 %
803	2-fluorobiphenyl	76 %
1020	2,4,6-tribromophenol	73 %
1374	d14-terphenyl	121 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-019 VOA

SAMPLE # 03 FRACTIONS: A,B,C
Date & Time Collected 01/29/88

Category

VOA_S 02/01/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-019 VOA

FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200203A
INSTRMT 5100 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.1
	74-83-9	bromomethane	ND	5.1
	75-01-4	vinyl chloride	ND	5.1
	75-00-3	chloroethane	ND	5.1
	75-09-2	methylene chloride	ND	2.8
92	67-64-1	acetone	8.4 B	7.6
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.1
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	7.0
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.1
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.1
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.1
	110-75-8	2-chloroethylvinyl ether	ND	5.1
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-019 VOA

FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.0
	108-88-3	toluene	ND	6.1
	108-90-7	chlorobenzene	ND	6.1
	100-41-4	ethylbenzene	ND	7.3
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
195	1,2-dichloroethane-d4	67 QC %
393	Toluene-d8	115 %
495	BFB	107 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-021 BNA

SAMPLE # 04 FRACTIONS: A
Date & Time Collected 01/29/88

Category

BNA_S 02/01/88 DATE COMPLETED

DRY_WT 0 % MOISTURE

EX_BNA 02/02/88 DATE COMPLETED

GPC 02/02/88 DATE COMPLETED

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-021 BNA

FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/02/88 FILE # 0200204A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-021 BNA FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
1232	84-74-2	di-n-butylphthalate	91 BJ	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1559	117-81-7	bis(2-ethylhexyl)phthalate	270	170

SAMPLE ID CAR-01-021 BNA FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
272	2-fluorophenol	63 %
411	d5-phenol	68 %
532	d5-nitrobenzene	65 %
804	2-fluorobiphenyl	70 %
1021	2,4,6-tribromophenol	73 %
1374	d14-terphenyl	112 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-022 VOA

SAMPLE # 05 FRACTIONS: A,B,C
Date & Time Collected 01/29/88 Category

VOA S 02/01/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-022 VOA

FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200205A
INSTRMT 5100 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.9
	74-83-9	bromomethane	ND	5.9
	75-01-4	vinyl chloride	ND	5.9
	75-00-3	chloroethane	ND	5.9
	75-09-2	methylene chloride	ND	3.3
91	67-64-1	acetone	11 B	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.9
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.3
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.1
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.9
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	5.9
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	5.9
	110-75-8	2-chloroethylvinyl ether	ND	5.9
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-022 VOA

FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	54
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.1
397	108-88-3	toluene	5.3 J	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.5
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.4

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
197	1,2-dichloroethane-d4	72 %
394	Toluene-d8	114 %
493	BFB	108 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-024 BNA

SAMPLE # 06 FRACTIONS: A
Date & Time Collected 01/29/88 Category

BNA_S 02/01/88 DRY_WT 16 EX_BNA 02/02/88 GPC 02/02/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-002

SAMPLE ID CAR-01-024 BNA FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/02/88 FILE # 0200206A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	790
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	790
	111-44-4	bis(2-chloroethyl) ether	ND	450
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	4000
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	790
	108-60-1	bis(2-chloroisopropyl)ether	ND	450
	106-44-5	4-methylphenol	ND	790
	621-64-7	n-nitroso-di-n-propylamine	ND	950
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	290
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	4000
	111-91-1	bis(2-chloroethoxy)methane	ND	420
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	130
	106-47-8	4-chloroaniline	ND	790
	87-68-3	hexachlorobutadiene	ND	71
	59-50-7	4-chloro-3-methylphenol	ND	240
	91-57-6	2-methylnaphthalene	ND	790

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-002
Continued From Above

SAMPLE ID CAR-01-024 BNA FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	480
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	790
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	4000
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	280
	99-09-2	3-nitroaniline	ND	4000
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3300
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	790
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	450
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	330
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	4000
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	290
	85-01-8	phenanthrene	ND	430
	120-12-7	anthracene	ND	150
1232	84-74-2	di-n-butylphthalate	190 BJ	200
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	620
1558	117-81-7	bis(2-ethylhexyl)phthalate	390	200

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-002
Continued From Above

SAMPLE ID CAR-01-024 BNA

FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
1650	117-84-0	di-n-octyl phthalate	97 J	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	290
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
275	2-fluorophenol	65 %
413	d5-phenol	68 %
533	d5-nitrobenzene	69 %
803	2-fluorobiphenyl	73 %
1020	2,4,6-tribromophenol	77 %
1374	d14-terphenyl	127 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-025 VOA

SAMPLE # 07 FRACTIONS: A,B,C
Date & Time Collected 01/29/88 Category

VOA S 02/01/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-002

Received: 02/01/88 Results by Sample

SAMPLE ID CAR-01-025 VOA FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200207A

INSTRMT 5100 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
	75-09-2	methylene chloride	ND	2.8
95	67-64-1	acetone	8.2 B	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	38

SAMPLE ID CAR-01-025 VOA FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
400	108-88-3	toluene	2.0 J	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
200	1,2-dichloroethane-d4	75 %
397	Toluene-d8	120 GC %
495	BFB	110 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-026 VOA

SAMPLE # 08 FRACTIONS: A,B,C
Date & Time Collected 01/29/88 Category

VOA S 02/01/88 VOA S 02/01/88
DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-026 VOA FRACTION 08A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200208A
INSTRMT 5100 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
87	75-09-2	methylene chloride	2.1 J	3.1
97	67-64-1	acetone	5.0 BJ	8.3
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.2
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.2
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.4
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.2
	591-78-6	2-hexanon	ND	40

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-026 VOA

FRACTION 08A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	51
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
397	108-88-3	toluene	2.0 J	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.0
	100-42-5	styrene	ND	3.3
	95-47-6	total xylenes	ND	5.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
200	1,2-dichloroethane-d4	75 %
394	Toluene-d8	116 %
492	BFB	110 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-027 VOA

SAMPLE # 09 FRACTIONS: A,B,C
Date & Time Collected 01/29/88 Category

VOA S 02/01/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # SB-02-002

Received: 02/01/88 Results by Sample

SAMPLE ID CAR-01-027 VOA FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200209A

INSTRMT 5100 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.5
	74-83-9	bromomethane	ND	5.5
	75-01-4	vinyl chloride	ND	5.5
	75-00-3	chloroethane	ND	5.5
88	75-09-2	methylene chloride	2.2 J	3.1
98	67-64-1	acetone	3.7 BJ	8.3
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.5
	75-35-4	1,1-dichloroethene	ND	5.2
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.2
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.6
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.6
	10061-01-5	cis-1,3-dichloropropene	ND	5.5
279	79-01-6	trichloroethene	3.2	2.1
	124-48-1	dibromochloromethane	ND	3.4
	79-00-5	1,1,2-trichloroethane	ND	5.5
	71-43-2	benzene	ND	4.8
	10061-02-6	trans-1,3-dichloropropene	ND	5.5
	110-75-8	2-chloroethylvinyl ether	ND	5.5
	75-25-2	bromoform	ND	5.2
	591-78-6	2-hexanone	ND	40

SAMPLE ID CAR-01-027 VOA FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	51
	127-18-4	tetrachloroethene	ND	4.5
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.6
	108-88-3	toluene	ND	6.6
	108-90-7	chlorobenzene	ND	6.6
	100-41-4	ethylbenzene	ND	7.9
	100-42-5	styrene	ND	3.3
	95-47-6	total xylenes	ND	5.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
200	1,2-dichloroethane-d4	76 %
393	Toluene-d8	119 QC %
493	BFB	114 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-028 BNA SAMPLE # 10 FRACTIONS: A
Date & Time Collected 01/29/88 Category

BNA S 02/01/88 DRY WT 8 EX BNA 02/02/88 GPC 02/02/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

Received: 02/01/88

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-028 BNA

FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/02/88 FILE # 0200210A VERIFIED LAK

INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	730
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	730
	111-44-4	bis(2-chloroethyl) ether	ND	410
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	320
	100-51-6	benzyl alcohol	ND	3600
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	730
	108-60-1	bis(2-chloroisopropyl)ether	ND	410
	106-44-5	4-methylphenol	ND	730
	621-64-7	n-nitroso-di-n-propylamine	ND	870
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	260
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3600
	111-91-1	bis(2-chloroethoxy)methane	ND	380
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	730
	87-68-3	hexachlorobutadiene	ND	65
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	730

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-028 BNA FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	730
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3600
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	250
	99-09-2	3-nitroaniline	ND	3600
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3000
	100-02-7	4-nitrophenol	ND	170
	132-64-9	dibenzofuran	ND	730
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	410
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	300
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3600
	534-52-1	4,6-dinitro-2-methylphenol	ND	1700
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	260
	85-01-8	phenanthrene	ND	390
	120-12-7	anthracene	ND	140
1233	84-74-2	di-n-butylphthalate	270 B	180
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3200
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	180
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	570
1561	117-81-7	bis(2-ethylhexyl)phthalate	200	180

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-028 BNA

FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	180
1652	117-84-0	di-n-octyl phthalate	89 J	180
	205-99-2	benzo(b)fluoranthene	ND	350
	207-08-9	benzo(k)fluoranthene	ND	180
	50-32-8	benzo(a)pyrene	ND	180
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	180
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
291	2-fluorophenol	60 %
419	d5-phenol	64 %
535	d5-nitrobenzene	68 %
804	2-fluorobiphenyl	71 %
1021	2,4,6-tribromophenol	68 %
1376	d14-terphenyl	136 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002

SAMPLE ID CAR-01-029 BNA

SAMPLE # 11 FRACTIONS: A
Date & Time Collected 01/29/88 Category

BNA_S 02/01/88 DATE COMPLETED
DRY_WT 9 % MOISTURE
EX_BNA 02/02/88 DATE COMPLETED
GPC 02/02/88 DATE COMPLETED

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # 88-02-002

SAMPLE ID CAR-01-029 BNA FRACTION 11A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/02/88 FILE # 0200211A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	730
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	730
	111-44-4	bis(2-chloroethyl) ether	ND	420
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	320
	100-51-6	benzyl alcohol	ND	3700
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	730
	108-60-1	bis(2-chloroisopropyl)ether	ND	420
	106-44-5	4-methylphenol	ND	730
	621-64-7	n-nitroso-di-n-propylamine	ND	880
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	260
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3700
	111-91-1	bis(2-chloroethoxy)methane	ND	390
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	730
	87-68-3	hexachlorobutadiene	ND	66
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	730

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-029 BNA

FRACTION 11A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	730
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3700
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3700
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	730
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	420
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3700
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	260
	85-01-8	phenanthrene	ND	400
	120-12-7	anthracene	ND	140
1233	84-74-2	di-n-butylphthalate	750 B	180
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3200
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	180
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	570
1561	117-81-7	bis(2-ethylhexyl)phthalate	230	180

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-002
Continued From Above

SAMPLE ID CAR-01-029 BNA

FRACTION 11A TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/29/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	180
1652	117-84-0	di-n-octyl phthalate	85 J	180
	205-99-2	benzo(b)fluoranthene	ND	350
	207-08-9	benzo(k)fluoranthene	ND	180
	50-32-8	benzo(a)pyrene	ND	180
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	180
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
238	2-fluorophenol	83 %
395	d5-phenol	90 %
524	d5-nitrobenzene	106 %
802	2-fluorobiphenyl	109 %
1020	2,4,6-tribromophenol	87 %
1376	d14-terphenyl	178 QC %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-002

Received: 02/01/88 Results by Sample

SAMPLE ID REAGENT BLANK VOA FRACTION 12A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0200212A

INSTRMT 5100 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
	75-09-2	methylene chloride	ND	2.8
101	67-64-1	acetone	5.7 J	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

SAMPLE ID REAGENT BLANK VOA FRACTION 12A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
202	1,2-dichloroethane-d4	75 %
390	Toluene-d8	106 %
485	BFB	105 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-002

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 13 FRACTIONS: A
Date & Time Collected not specified Category

EX_BNA 02/02/88
DATE COMPLETED

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-002

SAMPLE ID REAGENT BLANK BNA FRACTION 13A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/02/88 FILE # 0200213A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

SAMPLE ID REAGENT BLANK BNA FRACTION 13A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
1233	84-74-2	di-n-butylphthalate	150 J	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
	117-81-7	bis(2-ethylhexyl)phthalate	ND	170

Received: 02/01/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-002
Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 13A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
261	2-fluorophenol	70 %
406	d5-phenol	78 %
530	d5-nitrobenzene	76 %
804	2-fluorobiphenyl	75 %
1021	2,4,6-tribromophenol	69 %
1375	d14-terphenyl	128 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C	!	DUP624
03C	!	DUP624
05C	!	DUP624
07C	!	DUP624
09C	!	DUP624

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-02-004

Received: 01/29/88 04/22/88 14:34:03

REPORT TO: Radian
Bl. 4
Austin

ATTEN: Larry French

CLIENT: CARSWELL D04 SAMPLES: 5
COMPANY: Carswell AFB
FACILITY: IRP

PREPARED BY: Radian Analytical Services
8501 Mo-pac Bl.
PO Box 201088
Austin, TX 78720-1088

ATTEN:
PHONE: 512-454-4797

CERTIFIED BY

CONTACT: SMITH

WORK ID: soils 01
TAKEN: GJC
TRANS: Fed Ex
TYPE:
P.O. #: 227-005-04-40
INVOICE: under separate cover

Footnotes and Comments

* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between 50 and 100%.

@ Indicates that spike recovery for this analysis on the specific matrix was not within acceptable limits indicating an interferent present.

SAMPLE IDENTIFICATION

01	Car-01-018
02	Car-01-020
03	Car-01-023
04	Car-01-030
05	Car-01-031

TEST CODES and NAMES used on this report

AS G	Arsenic, graphite AA
D3050F	Digestion, meth.3050, AA
D3050P	Digestion,method 3050, ICP
HG C	Mercury, cold vapor
ICP200	ICPES, EPA 200.7 elements
ONG IR	Oil and grease, infrared
PB G	Lead, graphite AA
PREP W	Special preparation
SE G	Selenium, graphite AA

KADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT

Results By Test

Work Order # 88-02-004

SAMPLE Sample Id	Test: AS G ug/ml	Test: D3050F date complete	Test: D3050P date complete	Test: ONG IR mg/L	Test: PB G ug/ml
01 Car-01-018	0.52^ ug/g	02/12/88	02/12/88	<5 ug/g	1.4^ ug/g
02 Car-01-020	0.52R ug/g	02/12/88	02/12/88	<5 ug/g	2.4 ug/g
03 Car-01-023	0.52 ug/g	02/12/88	02/12/88	<5 ug/g	1.3 ug/g
04 Car-01-030	0.79 ug/g	02/12/88	02/12/88	<5 ug/g	1.6 ug/g
05 Car-01-031	0.98 ug/g	02/12/88	02/12/88	<5 ug/g	2.0@ ug/g

SAMPLE Sample Id	Test: PREP W date complete	Test: SE G ug/ml
01 Car-01-018	02/04/88	<0.30 ug/g
02 Car-01-020	02/04/88	<0.30R ug/g
03 Car-01-023	02/04/88	<0.30 ug/g
04 Car-01-030	02/04/88	<0.30 ug/g
05 Car-01-031	02/04/88	<0.30 ug/g

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-02-004

Received: 01/29/88 Results by Sample

SAMPLE ID Car-01-018 FRACTION 01A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 01/28/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403 ANALYZED 02/19/88 UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004

SAMPLE ID Car-01-018 FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/28/88 Category

ANALYST DES

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.83	Mg	Magnesium	130	9.2
Al	Aluminum	430	18	Mn	Manganese	22	0.28
As	Arsenic	ND,R	28	Mo	Molybdenum	ND	4.6
B	Boron	ND,R	55	Na	Sodium	70	7.3
Ba	Barium	2.3*	0.83	Ni	Nickel	ND	1.8
Be	Beryllium	ND	0.092	Pb	Lead	ND	4.6
Ca	Calcium	13000B	5.5	Sb	Antimony	8*	5.5
Cd	Cadmium	ND	0.28	Se	Selenium	ND,R	28
Co	Cobalt	ND	0.92	Si	Silicon	330R	28
Cr	Chromium	ND	0.83	Tl	Thallium	15*	8.3
Cu	Copper	ND	0.92	V	Vanadium	ND	1.8
Fe	Iron	1800	2.8	Zn	Zinc	1.0*	0.55
K	Potassium	60*	28				

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004
Continued From Above

SAMPLE ID Car-01-018

FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/28/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-004

SAMPLE ID Car-01-020

FRACTION 02A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 01/29/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403

ANALYZED 02/19/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	0.08*	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-02-004

Received: 01/29/88 Results by Sample

SAMPLE ID Car-01-020 FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 01/29/88 Category

ANALYST DES VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.82	Mg	Magnesium	170	9.1
Al	Aluminum	400	18	Mn	Manganese	64	0.27
As	Arsenic	ND	27	Mo	Molybdenum	ND	4.5
B	Boron	ND	55	Na	Sodium	46	7.3
Ba	Barium	2.9*	0.82	Ni	Nickel	ND	1.8
Be	Beryllium	ND	0.091	Pb	Lead	nd	4.5
Ca	Calcium	15000^	5.5	Sb	Antimony	ND	5.5
Cd	Cadmium	ND	0.27	Se	Selenium	ND	27
Co	Cobalt	ND	0.91	Si	Silicon	260	27
Cr	Chromium	2.2*	0.82	Tl	Thallium	ND	8.2
Cu	Copper	ND	0.91	V	Vanadium	5.3*	1.8
Fe	Iron	4900	2.7	Zn	Zinc	4.4^	0.55
K	Potassium	75*	27				

RADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004
Continued From Above

SAMPLE ID Car-01-020

FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/29/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004

SAMPLE ID Car-01-023

FRACTION 03A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 01/29/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/19/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004

SAMPLE ID Car-01-023

FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/29/88 Category

ANALYST DES

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.82	Mg	Magnesium	160	9.1
Al	Aluminum	670	18	Mn	Manganese	37	0.27
As	Arsenic	ND	27	Mo	Molybdenum	ND	4.5
B	Boron	ND	55	Na	Sodium	56	7.3
Ba	Barium	4.1	0.82	Ni	Nickel	ND	1.8
Be	Beryllium	ND	0.091	Pb	Lead	ND	4.5
Ca	Calcium	10000	5.5	Sb	Antimony	ND	5.5
Cd	Cadmium	ND	0.27	Se	Selenium	ND	27
Co	Cobalt	ND	0.91	Si	Silicon	300	27
Cr	Chromium	1.6*	0.82	Tl	Thallium	ND	8.2
Cu	Copper	ND	0.91	V	Vanadium	ND	1.8
Fe	Iron	2200	2.7	Zn	Zinc	2.0*	0.55
K	Potassium	110*	27				

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004
Continued From Above

SAMPLE ID Car-01-023

FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/29/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004

SAMPLE ID Car-01-030

FRACTION 04A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 01/29/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/19/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

RAS - Austin REPORT

Work Order # 88-02-004

Received: 01/29/88

Results by Sample

SAMPLE ID Car-01-030 FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 01/29/88 Category

ANALYST DEB

VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.82	Mg	Magnesium	170	9.1
Al	Aluminum	670	18	Mn	Manganese	31	0.27
As	Arsenic	ND	27	Mo	Molybdenum	ND	4.5
B	Boron	ND	55	Na	Sodium	29*	7.3
Ba	Barium	4.0*	0.82	Ni	Nickel	ND	1.8
Be	Beryllium	ND	0.091	Pb	Lead	ND	4.5
Ca	Calcium	8700	5.5	Sb	Antimony	ND	5.5
Cd	Cadmium	ND	0.27	Se	Selenium	ND	27
Co	Cobalt	ND	0.91	Si	Silicon	240	27
Cr	Chromium	1.8*	0.82	Tl	Thallium	ND	8.2
Cu	Copper	ND	0.91	V	Vanadium	2*	1.8
Fe	Iron	3900	2.7	Zn	Zinc	3.0	0.55
K	Potassium	80*	27				

NON - WIN

RADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004
Continued From Above

SAMPLE ID Car-01-030

FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/29/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004

SAMPLE ID Car-01-031

FRACTION 05A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 01/29/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/19/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 01/29/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-004

SAMPLE ID Car-01-031

FRACTION 05A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/29/88 Category

ANALYST DES

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.83	Mg	Magnesium	150	9.3
Al	Aluminum	640	19	Mn	Manganese	49	0.28
As	Arsenic	ND	28	Mo	Molybdenum	ND	4.6
B	Boron	ND	56	Na	Sodium	29*	7.4
Ba	Barium	3.5*	0.83	Ni	Nickel	ND	1.9
Be	Beryllium	ND	0.093	Pb	Lead	ND	4.6
Ca	Calcium	8200	5.6	Sb	Antimony	ND	5.6
Cd	Cadmium	ND	0.28	Se	Selenium	ND	28
Co	Cobalt	ND	0.93	Si	Silicon	270	28
Cr	Chromium	3.2*	0.83	Tl	Thallium	ND	8.3
Cu	Copper	ND	0.93	V	Vanadium	4*	1.9
Fe	Iron	4300	2.8	Zn	Zinc	3.8	0.56
K	Potassium	80*	28				

SAMPLE ID Car-01-031 FRACTION 05A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/29/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-009

Received: 02/03/88 02/25/88 15:10:51

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 10
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: Site 5
TAKEN: 1/30 - 2/2/88
TRANS: Fed Ex 5910117802
TYPE: Soil
P.O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analutical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

CERTIFIED BY

CONTACT: LARRY FRENCH

SAMPLE IDENTIFICATION

01 CAR8-01-032 SOIL
02 CAR8-01-033 SOIL
03 CAR8-02-001 SOIL
04 CAR8-02-002 SOIL
05 CAR8-02-004 SOIL
06 CAR8-02-005 SOIL
07 CAR8-02-007 SOIL
08 CAR8-02-008 SOIL
09 REAGENT BLANK
10 REAGENT BLANK

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analusis

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results By Test

Work Order # S8-02-009

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed		02/03/88 DATE COMPLETED		02/03/88 DATE COMPLETED	
DRY_WT % moisture		19 % MOISTURE		12 % MOISTURE	
EX_BNA date completed		02/04/88 DATE COMPLETED		02/04/88 DATE COMPLETED	
GPC date completed		02/04/88 DATE COMPLETED		02/04/88 DATE COMPLETED	
VOA_S date completed	02/03/88 DATE COMPLETED		02/03/88 DATE COMPLETED		02/03/88 DATE COMPLETED

TEST CODE default units	Sample 06 (entered units)	Sample 07 (entered units)	Sample 08 (entered units)	Sample 10 (entered units)
BNA_S date completed	02/03/88 DATE COMPLETED		02/03/88 DATE COMPLETED	
DRY_WT % moisture	18 % MOISTURE		5 % MOISTURE	
EX_BNA date completed	02/04/88 DATE COMPLETED		02/04/88 DATE COMPLETED	02/04/88 DATE COMPLETED
GPC date completed	02/04/88 DATE COMPLETED		02/04/88 DATE COMPLETED	02/04/88 DATE COMPLETED
VOA_S date completed		02/03/88 DATE COMPLETED		

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-009

Received: 02/03/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR8-01-032 SOI					02/03/88 DATE COMPLETED
02 CAR8-01-033 SOI	02/03/88 DATE COMPLETED	19 % MOISTURE	02/04/88 DATE COMPLETED	02/04/88 DATE COMPLETED	
03 CAR8-02-001 SOI					02/03/88 DATE COMPLETED
04 CAR8-02-002 SOI	02/03/88 DATE COMPLETED	12 % MOISTURE	02/04/88 DATE COMPLETED	02/04/88 DATE COMPLETED	
05 CAR8-02-004 SOI					02/03/88 DATE COMPLETED
06 CAR8-02-005 SOI	02/03/88 DATE COMPLETED	18 % MOISTURE	02/04/88 DATE COMPLETED	02/04/88 DATE COMPLETED	
07 CAR8-02-007 SOI					02/03/88 DATE COMPLETED
08 CAR8-02-008 SOI	02/03/88 DATE COMPLETED	5 % MOISTURE	02/04/88 DATE COMPLETED	02/04/88 DATE COMPLETED	
10 REAGENT BLANK			02/04/88 DATE COMPLETED	02/04/88 DATE COMPLETED	

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-009

Received: 02/03/88

Results by Sample

SAMPLE ID CAR8-01-032 SOIL

SAMPLE # 01 FRACTIONS: A,B,C

Date & Time Collected 01/30/88

Category

VOA S 02/03/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009

SAMPLE ID CAR8-01-032 SOIL

FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/30/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

ANALYST RY EXTRCTD FILE # 0200901A VERIFIED LAK
INSTRMT F4 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.8
	74-83-9	bromomethane	ND	5.8
	75-01-4	vinyl chloride	ND	5.8
	75-00-3	chloroethane	ND	5.8
134	75-09-2	methylene chloride	8.1 B	3.2
145	67-64-1	acetone	35	8.7
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.8
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.4
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	8.0
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.8
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.6
	79-00-5	1,1,2-trichloroethane	ND	5.8
	71-43-2	benzene	ND	5.1
	10061-02-6	trans-1,3-dichloropropene	ND	5.8
	110-75-8	2-chloroethylvinyl ether	ND	5.8
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009
Continued From Above

SAMPLE ID CAR8-01-032 SOIL FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/30/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	53
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.0
406	108-88-3	toluene	31	7.0
	108-90-7	chlorobenzene	ND	7.0
	100-41-4	ethylbenzene	ND	8.4
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	97 %
403	Toluene-d8	94 %
509	BFB	108 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009

SAMPLE ID CAR8-01-033 SOIL SAMPLE # 02 FRACTIONS: A
Date & Time Collected 01/30/88 Category

BNA S 02/03/88 DATE COMPLETED DRY WT 19 % MOISTURE EX BNA 02/04/88 DATE COMPLETED GPC 02/04/88 DATE COMPLETED

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009

SAMPLE ID CAR8-01-033 SOIL FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/30/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST BAL EXTRCTD 02/04/88 FILE # 0200902A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	760
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	760
	111-44-4	bis(2-chloroethyl) ether	ND	430
	95-57-8	2-chlorophenol	ND	250
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	330
	100-51-6	benzyl alcohol	ND	3800
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	760
	108-60-1	bis(2-chloroisopropyl)ether	ND	430
	106-44-5	4-methylphenol	ND	760
	621-64-7	n-nitroso-di-n-propylamine	ND	910
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	270
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3800
	111-91-1	bis(2-chloroethoxy)methane	ND	400
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	760
	87-68-3	hexachlorobutadiene	ND	68
	59-50-7	4-chloro-3-methylphenol	ND	230
	91-57-6	2-methylnaphthalene	ND	760

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009
Continued From Above

SAMPLE ID CAR8-01-033 SOIL FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/30/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	450
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	760
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3800
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3800
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3200
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	760
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	430
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	320
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3800
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	270
	85-01-8	phenanthrene	ND	410
	120-12-7	anthracene	ND	140
1234	84-74-2	di-n-butylphthalate	180 BJ	190
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3300
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	590
1561	117-81-7	bis(2-ethylhexyl)phthalate	180 BJ	190

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009
Continued From Above

SAMPLE ID CAR8-01-033 SOIL FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 01/30/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
1652	117-84-0	di-n-octyl phthalate	84 J	190
	205-99-2	benzo(b)fluoranthene	ND	360
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	280
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	310

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
269	2-fluorophenol	56 %
409	d5-phenol	63 %
531	d5-nitrobenzene	64 %
804	2-fluorobiphenyl	68 %
1021	2,4,6-tribromophenol	70 %
1376	d14-terphenyl	119 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-009

SAMPLE ID CAR8-02-001 SOIL

SAMPLE # 03 FRACTIONS: A,B,C
Date & Time Collected 02/01/88 Category

VOA_S 02/03/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-009

Received: 02/03/88 Results by Sample

SAMPLE ID CAR8-02-001 SOIL FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/01/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200903A

INSTRMT F4 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.8
	74-83-9	bromomethane	ND	5.8
	75-01-4	vinyl chloride	ND	5.8
	75-00-3	chloroethane	ND	5.8
	75-09-2	methylene chloride	ND	3.2
143	67-64-1	acetone	12	8.7
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.8
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.4
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	8.0
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.8
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.6
	79-00-5	1,1,2-trichloroethane	ND	5.8
	71-43-2	benzene	ND	5.1
	10061-02-6	trans-1,3-dichloropropene	ND	5.8
	110-75-8	2-chloroethylvinyl ether	ND	5.8
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009
Continued From Above

SAMPLE ID CAR8-02-001 SOIL FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/01/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	53
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.0
406	108-88-3	toluene	2.3 J	7.0
	108-90-7	chlorobenzene	ND	7.0
	100-41-4	ethylbenzene	ND	8.4
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	1,2-dichloroethane-d4	95 %
403	Toluene-d8	100 %
509	BFB	103 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/03/88

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-009

SAMPLE ID CAR8-02-002 SOIL SAMPLE # 04 FRACTIONS: A

Date & Time Collected 02/01/88 Category

BNA_S 02/03/88 (DATE COMPLETED) DRY_WT 12 (% MOISTURE) EX_BNA 02/04/88 (DATE COMPLETED) GPC 02/04/88 (DATE COMPLETED)

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009

SAMPLE ID CAR8-02-002 SOIL FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/01/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/04/88 FILE # 0200904A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	760
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	760
	111-44-4	bis(2-chloroethyl) ether	ND	430
	95-57-8	2-chlorophenol	ND	250
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	330
	100-51-6	benzyl alcohol	ND	3800
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	760
	108-60-1	bis(2-chloroisopropyl)ether	ND	430
	106-44-5	4-methylphenol	ND	760
	621-64-7	n-nitroso-di-n-propylamine	ND	910
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	270
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3800
	111-91-1	bis(2-chloroethoxy)methane	ND	400
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	760
	87-68-3	hexachlorobutadiene	ND	68
	59-50-7	4-chloro-3-methylphenol	ND	230
	91-57-6	2-methylnaphthalene	ND	760

SAMPLE ID CAR8-02-002 SOIL FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/01/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	450
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	760
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3800
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3800
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3200
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	760
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	430
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	320
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3800
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	270
	85-01-8	phenanthrene	ND	410
	120-12-7	anthracene	ND	140
1233	84-74-2	di-n-butylphthalate	120 BJ	190
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3300
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	590
1560	117-81-7	bis(2-ethylhexyl)phthalate	140 BJ	190

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009
Continued From Above

SAMPLE ID CAR8-02-002 SOIL FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/01/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
1652	117-84-0	di-n-octyl phthalate	350	190
	205-99-2	benzo(b)fluoranthene	ND	360
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	280
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	310

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
277	2-fluorophenol	64 %
413	d5-phenol	71 %
532	d5-nitrobenzene	74 %
804	2-fluorobiphenyl	74 %
1020	2,4,6-tribromophenol	77 %
1375	d14-terphenyl	126 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-004 SOIL SAMPLE # 05 FRACTIONS: A,B,C
Date & Time Collected 02/01/88 Category

VOA S 02/03/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-009

SAMPLE ID CAR8-02-004 SOIL FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/01/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200905A
INSTRMT F4 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	6.0
	74-83-9	bromomethane	ND	6.0
	75-01-4	vinyl chloride	ND	6.0
	75-00-3	chloroethane	ND	6.0
135	75-09-2	methylene chloride	4.1 B	3.3
146	67-64-1	acetone	27	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	6.0
	75-35-4	1,1-dichloroethene	ND	5.6
	75-34-3	1,1-dichloroethane	ND	3.3
209	156-60-5	trans-1,2-dichloroethene	14	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.2
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	6.0
297	79-01-6	trichloroethene	22	2.3
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	6.0
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	6.0
	110-75-8	2-chloroethylvinyl ether	ND	6.0
	75-25-2	bromoform	ND	5.6
	591-78-6	2-hexanone	ND	43

SAMPLE ID CAR8-02-004 SOIL FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/01/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	55
	127-18-4	tetrachloroethene	ND	4.9
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.2
	108-88-3	toluene	ND	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.6
	100-42-5	styrene	ND	3.6
	95-47-6	total xylenes	ND	5.5

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	96 %
403	Toluene-d8	99 %
510	BFB	103 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-009

Received: 02/03/88 Results by Sample

SAMPLE ID CAR8-02-005 SOIL SAMPLE # 06 FRACTIONS: A

Date & Time Collected 02/01/88 Category

BNA_S	DRY_WT	EX_BNA	GPC
02/03/88	18	02/04/88	02/04/88
DATE COMPLETED	% MOISTURE	DATE COMPLETED	DATE COMPLETED

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009

SAMPLE ID CAR8-02-005 SOIL FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/01/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/04/88 FILE # 0200906A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	810
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	810
	111-44-4	bis(2-chloroethyl) ether	ND	460
	95-57-8	2-chlorophenol	ND	270
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	360
	100-51-6	benzyl alcohol	ND	4100
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	810
	108-60-1	bis(2-chloroisopropyl)ether	ND	460
	106-44-5	4-methylphenol	ND	810
	621-64-7	n-nitroso-di-n-propylamine	ND	970
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	180
	88-75-5	2-nitrophenol	ND	290
	105-67-9	2,4-dimethylphenol	ND	220
	65-85-0	benzoic acid	ND	4100
	111-91-1	bis(2-chloroethoxy)methane	ND	430
	120-83-2	2,4-dichlorophenol	ND	220
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	130
	106-47-8	4-chloroaniline	ND	810
	87-68-3	hexachlorobutadiene	ND	73
	59-50-7	4-chloro-3-methylphenol	ND	240
	91-57-6	2-methylnaphthalene	ND	810

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-009
Continued From Above

SAMPLE ID CAR8-02-005 SOIL

FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/01/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	490
	88-06-2	2,4,6-trichlorophenol	ND	220
	95-95-4	2,4,5-trichlorophenol	ND	810
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	4100
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	280
	99-09-2	3-nitroaniline	ND	4100
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3400
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	810
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	460
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	340
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	4100
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	290
	85-01-8	phenanthrene	ND	440
	120-12-7	anthracene	ND	150
1235	84-74-2	di-n-butylphthalate	110 BJ	200
	206-44-0	fluoranthene	ND	180
	92-87-5	benzidine	ND	3600
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	630
1562	117-81-7	bis(2-ethylhexyl)phthalate	230 B	200

SAMPLE ID CAR8-02-005 SOIL FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/01/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
1654	117-84-0	di-n-octyl phthalate	110 J	200
	205-99-2	benzo(b)fluoranthene	ND	390
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	300
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	330

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
274	2-fluorophenol	57 %
412	d5-phenol	66 %
533	d5-nitrobenzene	67 %
805	2-fluorobiphenyl	72 %
1022	2,4,6-tribromophenol	71 %
1377	d14-terphenyl	121 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-009

Received: 02/03/88

Results by Sample

SAMPLE ID CAR8-02-007 SOIL SAMPLE # 07 FRACTIONS: A,B,C

Date & Time Collected 02/02/88 Category

VOA_S 02/03/88
DATE COMPLETED

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009

SAMPLE ID CAR8-02-007 SOIL FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/02/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0200907R
INSTRMT F4 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.2
	74-83-9	bromomethane	ND	5.2
	75-01-4	vinyl chloride	ND	5.2
	75-00-3	chloroethane	ND	5.2
133	75-09-2	methylene chloride	2.8 BJ	2.9
143	67-64-1	acetone	23	7.7
	75-15-0	carbon disulfide	ND	1.8
	75-69-4	trichlorofluoromethane	ND	5.2
	75-35-4	1,1-dichloroethene	ND	4.8
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.9
229	78-93-3	2-butanone	18 J	26
	71-55-6	1,1,1-trichloroethane	ND	3.9
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.1
	75-27-4	bromodichloromethane	ND	2.3
	78-87-5	1,2-dichloropropane	ND	6.2
	10061-01-5	cis-1,3-dichloropropene	ND	5.2
	79-01-6	trichloroethene	ND	2.0
	124-48-1	dibromochloromethane	ND	3.2
	79-00-5	1,1,2-trichloroethane	ND	5.2
	71-43-2	benzene	ND	4.5
	10061-02-6	trans-1,3-dichloropropene	ND	5.2
	110-75-8	2-chloroethylvinyl ether	ND	5.2
	75-25-2	bromoform	ND	4.8
	591-78-6	2-hexanone	ND	37

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-009
Continued From Above

SAMPLE ID CARB-02-007 SOIL FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/02/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	47
	127-18-4	tetrachloroethene	ND	4.2
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.1
	108-88-3	toluene	ND	6.2
	108-90-7	chlorobenzene	ND	6.2
	100-41-4	ethylbenzene	ND	7.4
	100-42-5	styrene	ND	3.1
	95-47-6	total xylenes	ND	4.7

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	88 %
404	Toluene-d8	99 %
511	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009

SAMPLE ID CAR8-02-008 SOIL SAMPLE # 08 FRACTIONS: A
Date & Time Collected 02/02/88 Category

BNA_S 02/03/88 (DATE COMPLETED) DRY_WT 5 (% MOISTURE) EX_BNA 02/04/88 (DATE COMPLETED) GPC 02/04/88 (DATE COMPLETED)

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-009

SAMPLE ID CARB-02-008 SOIL FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/02/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/04/88 FILE # 0200908A VERIFIED LAK
INSTRMT F2 INJECTD 02/18/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	700
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	700
	111-44-4	bis(2-chloroethyl) ether	ND	400
	95-57-8	2-chlorophenol	ND	230
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	310
	100-51-6	benzyl alcohol	ND	3500
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	700
	108-60-1	bis(2-chloroisopropyl)ether	ND	400
	106-44-5	4-methylphenol	ND	700
	621-64-7	n-nitroso-di-n-propylamine	ND	840
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	250
	105-67-9	2,4-dimethylphenol	ND	190
	65-85-0	benzoic acid	ND	3500
	111-91-1	bis(2-chloroethoxy)methane	ND	370
	120-83-2	2,4-dichlorophenol	ND	190
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	700
	87-68-3	hexachlorobutadiene	ND	63
	59-50-7	4-chloro-3-methylphenol	ND	210
	91-57-6	2-methylnaphthalene	ND	700

SAMPLE ID CAR8-02-008 SOIL FRACTION OBA TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/02/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	420
	88-06-2	2,4,6-trichlorophenol	ND	190
	95-95-4	2,4,5-trichlorophenol	ND	700
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3500
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	240
	99-09-2	3-nitroaniline	ND	3500
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2900
	100-02-7	4-nitrophenol	ND	170
	132-64-9	dibenzofuran	ND	700
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	400
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	290
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3500
	534-52-1	4,6-dinitro-2-methylphenol	ND	1700
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	250
	85-01-8	phenanthrene	ND	380
	120-12-7	anthracene	ND	130
1231	84-74-2	di-n-butylphthalate	340 B	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	3100
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	540
1558	117-81-7	bis(2-ethylhexyl)phthalate	160 BJ	170

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009
Continued From Above

SAMPLE ID CAR8-02-008 SOIL

FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/02/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	330
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	260
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	290

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
289	2-fluorophenol	63 %
418	d5-phenol	67 %
535	d5-nitrobenzene	69 %
803	2-fluorobiphenyl	69 %
1019	2,4,6-tribromophenol	59 %
1373	d14-terphenyl	106 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID REAGENT BLANK FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0200909A
INSTRMT F4 INJECTD 02/05/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
136	75-09-2	methylene chloride	4.9	2.8
	67-64-1	acetone	ND	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanon	ND	38

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009
Continued From Above

SAMPLE ID REAGENT BLANK FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	95 %
403	Toluene-d8	101 %
508	BFB	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID REAGENT BLANK SAMPLE # 10 FRACTIONS: A
Date & Time Collected not specified Category

EX BNA 02/04/88 GPC 02/04/88
DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009

SAMPLE ID REAGENT BLANK FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/04/88 FILE # 0200910A VERIFIED LAK
INSTRMT F2 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

SAMPLE ID REAGENT BLANK FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
1233	84-74-2	di-n-butylphthalate	110 J	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1560	117-81-7	bis(2-ethylhexyl)phthalate	61 J	170

Received: 02/03/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-009
Continued From Above

SAMPLE ID REAGENT BLANK FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
264	2-fluorophenol	56 %
408	d5-phenol	64 %
530	d5-nitrobenzene	63 %
804	2-fluorobiphenyl	69 %
1020	2,4,6-tribromophenol	68 %
1375	d14-terphenyl	113 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C	I	DUP624
03C	I	DUP624
05C	I	DUP624
07C	I	DUP624

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT

04/22/88 14:21:36

Work Order # 88-02-028

REPORT TO: Radian
Bl.4
Austin

ATTEN: Larry French

CLIENT: CARSWELL D04 SAMPLES: 4
COMPANY: Carswell AFB
FACILITY: IRP

WORK ID: sites 4 and 5
TAKEN: GC
TRANS: Fed Ex
TYPE:
P.O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analutical Services
8501 Mo-pac Bl.
PO Box 201088
Austin, TX 78720-1088

ATTEN:
PHONE: 512-454-4797

CERTIFIED BY

CONTACT: SMITH

Footnotes and Comments

* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between 50 and 100%.

@ Indicates that spike recovery for this analysis on the specific matrix was not within acceptable limits indicating an interferent present.

SAMPLE IDENTIFICATION

01	Car8-01-034
02	Car8-02-003
03	Car8-02-006
04	Car8-02-009

TEST CODES and NAMES used on this report

AS G	Arsenic, graphite AA
D3050F	Digestion, meth.3050, AA
D3050P	Digestion,method 3050, ICP
HG C	Mercury, cold vapor
ICP200	ICPES, EPA 200.7 elements
ONG IR	Oil and grease, infrared
PREP W	Special preparation
SE G	Selenium, graphite AA

RAS - Austin REPORT

Work Order # 88-02-028

Received: 02/03/88

Results By Test

SAMPLE Sample Id	Test: AS G ug/ml	Test: D3050F date complete	Test: D3050P date complete	Test: ONG IR mg/L	Test: PREP W date complete
01 Car8-01-034	0.42^ ug/g	02/12/88	02/12/88	<5 ug/g	02/10/88
02 Car8-02-003	4.3R ug/g	02/12/88	02/12/88	<5 ug/g	02/10/88
03 Car8-02-006	0.64 ug/g	02/12/88	02/12/88	<5 ug/g	02/10/88
04 Car8-02-009	0.66 ug/g	02/12/88	02/12/88	<5 ug/g	02/10/88

SAMPLE Sample Id	Test: SE G ug/ml
01 Car8-01-034	<0.29 ug/g
02 Car8-02-003	<1.2R@ ug/g
03 Car8-02-006	<0.29 ug/g
04 Car8-02-009	<0.29 ug/g

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-028

SAMPLE ID Car8-01-034

FRACTION 01A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 01/30/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/19/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-02-028

Received: 02/03/88 Results by Sample

SAMPLE ID Car8-01-034 FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 01/30/88 Category

ANALYST DES VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.88	Mg	Magnesium	110	9.8
Al	Aluminum	370	20	Mn	Manganese	27	0.29
As	Arsenic	ND,R	29	Mo	Molybdenum	ND	4.9
B	Boron	ND,R	59	Na	Sodium	45	7.8
Ba	Barium	2.7*	0.88	Ni	Nickel	ND	2.0
Be	Beryllium	ND	0.098	Pb	Lead	ND	4.9
Ca	Calcium	7500B	5.9	Sb	Antimony	ND	5.9
Cd	Cadmium	ND	0.29	Se	Selenium	ND	29
Co	Cobalt	ND	0.98	Si	Silicon	3400B	29
Cr	Chromium	2.1*	0.88	Tl	Thallium	ND	8.8
Cu	Copper	ND	0.98	V	Vanadium	ND	2.0
Fe	Iron	2500R	2.9	Zn	Zinc	1.1*	0.59
K	Potassium	50*	29				

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-028
Continued From Above

SAMPLE ID Car8-01-034

FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 01/30/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

CORPORATION

RAS - Austin REPORT

Work Order # 88-02-028

Received: 02/03/88

Results by Sample

SAMPLE ID Car8-02-003

FRACTION 02A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 02/01/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403

ANALYZED 02/19/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-028

SAMPLE ID Car8-02-003

FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/01/88 Category

ANALYST DES

VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.85	Mg	Magnesium	1200	9.4
Al	Aluminum	4400	19	Mn	Manganese	140^	0.28
As	Arsenic	ND	28	Mo	Molybdenum	ND	4.7
B	Boron	ND	57	Na	Sodium	130^	7.5
Ba	Barium	34	0.85	Ni	Nickel	5*	1.9
Be	Beryllium	0.17*	0.094	Pb	Lead	7*	4.7
Ca	Calcium	73000	5.7	Sb	Antimony	16*	5.7
Cd	Cadmium	ND	0.28	Se	Selenium	ND	28
Co	Cobalt	1.9*	0.94	Si	Silicon	570	28
Cr	Chromium	7.2	0.85	Tl	Thallium	ND	8.5
Cu	Copper	2.1*	0.94	V	Vanadium	12	1.9
Fe	Iron	6900	2.8	Zn	Zinc	10	0.57
K	Potassium	430	28				

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-028
Continued From Above

SAMPLE ID Car8-02-003

FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/01/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-028

SAMPLE ID Car8-02-006

FRACTION 03A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 02/01/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/19/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

RAS - Austin REPORT

Work Order # 88-02-028

Received: 02/03/88

Results by Sample

SAMPLE ID Car8-02-006 FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/01/88 Category

ANALYST DES

VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.83	Mg	Magnesium	120	9.2
Al	Aluminum	420	18	Mn	Manganese	39	0.28
As	Arsenic	ND	28	Mo	Molybdenum	ND	4.6
B	Boron	ND	55	Na	Sodium	52	7.3
Ba	Barium	2.3*	0.83	Ni	Nickel	ND	1.8
Be	Beryllium	ND	0.092	Pb	Lead	ND	4.6
Ca	Calcium	9200	5.5	Sb	Antimony	ND	5.5
Cd	Cadmium	ND	0.28	Se	Selenium	ND	28
Co	Cobalt	ND	0.92	Si	Silicon	420	28
Cr	Chromium	1.1*	0.83	Tl	Thallium	ND	8.3
Cu	Copper	ND	0.92	V	Vanadium	ND	1.8
Fe	Iron	2800	2.8	Zn	Zinc	1.8*	0.55
K	Potassium	50*	28				

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-028
Continued From Above

SAMPLE ID Car8-02-006

FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/01/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-028

SAMPLE ID Car8-02-009

FRACTION 04A TEST CODE HG C NAME Mercury: cold vapor
Date & Time Collected 02/02/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/19/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.050

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/03/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-028

SAMPLE ID Car8-02-009

FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/02/88 Category

VERIFIED RHH

UNITS ug/g

ANALYST DES

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.83	Mg	Magnesium	87	9.2
Al	Aluminum	470E	18	Mn	Manganese	22	0.28
As	Arsenic	ND	28	Mo	Molybdenum	ND	4.6
B	Boron	ND	55	Na	Sodium	40	7.3
Ba	Barium	2.9*	0.83	Ni	Nickel	ND	1.8
Be	Beryllium	ND	0.092	Pb	Lead	ND	4.6
Ca	Calcium	360E	5.5	Sb	Antimony	ND	5.5
Cd	Cadmium	ND	0.28	Se	Selenium	ND	28
Co	Cobalt	ND	0.92	Si	Silicon	270	28
Cr	Chromium	ND	0.83	Tl	Thallium	ND	8.3
Cu	Copper	ND	0.92	V	Vanadium	ND	1.8
Fe	Iron	2300	2.8	Zn	Zinc	2.6*	0.55
K	Potassium	70*	28				

Received: 02/03/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-028
Continued From Above

SAMPLE ID Car8-02-009 FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/02/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 03/04/88 08:49:47

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 18
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: IRP Stage II Site 5
TAKEN: 02/08-02/10/88
TRANS: Federal 5910117861
TYPE: Soil-8240/8270
P. O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

Lucasa Petrovich
CERTIFIED BY

CONTACT: LARRY FRENCH

QC= OUTSIDE CONTROL LIMITS.

SAMPLE IDENTIFICATION

01	CAR8-02-010
02	CAR8-02-011
03	CAR8-02-013
04	CAR8-02-014
05	CAR8-02-016
06	CAR8-02-017
07	CAR8-02-019
08	CAR8-02-020
09	CAR8-02-022
10	CAR8-02-023
11	CAR8-02-025
12	CAR8-02-026
13	CAR8-02-027
14	CAR8-02-028
15	CAR8-02-010 MATRIX SPIKE
15	CAR8-02-010 MATRIX SPK DUP
16	REAGENT BLANK VOA
17	CAR8-02-011 MATRIX SPIKE
17	CAR8-02-011 MATRIX SPK DUP
18	REAGENT BLANK BNA

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results By Test

Work Order # S8-02-040

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed		02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED	
DRY_WT % moisture		4 % MOISTURE		9 % MOISTURE	
EX_BNA date completed		02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED	
GPC date completed		02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED	
VOA_S date completed	02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED

TEST CODE default units	Sample 06 (entered units)	Sample 07 (entered units)	Sample 08 (entered units)	Sample 09 (entered units)	Sample 10 (entered units)
BNA_S date completed	02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED
DRY_WT % moisture	9 % MOISTURE		11 % MOISTURE		1 % MOISTURE
EX_BNA date completed	02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED
GPC date completed	02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED
VOA_S date completed		02/12/88 DATE COMPLETED		02/12/88 DATE COMPLETED	

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-040

Received: 02/11/88

Results By Test

TEST CODE default units	Sample 11 (entered units)	Sample 12 (entered units)	Sample 13 (entered units)	Sample 14 (entered units)	Sample 17 (entered units)
BNA_S date completed			02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
DRY_WT % moisture			3 % MOISTURE	3 % MOISTURE	
EX_BNA date completed			02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED
					02/12/88 DATE COMPLETED
GPC date completed			02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED
					02/12/88 DATE COMPLETED
VOA_S date completed	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED			

TEST CODE default units	Sample 18 (entered units)
EX_BNA date completed	02/12/88 DATE COMPLETED
GPC date completed	02/12/88 DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-040

Received: 02/11/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR8-02-010					02/12/88 DATE COMPLETED
02 CAR8-02-011	02/12/88 DATE COMPLETED	4 % MOISTURE	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
03 CAR8-02-013					02/12/88 DATE COMPLETED
04 CAR8-02-014	02/12/88 DATE COMPLETED	9 % MOISTURE	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
05 CAR8-02-016					02/12/88 DATE COMPLETED
06 CAR8-02-017	02/12/88 DATE COMPLETED	9 % MOISTURE	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
07 CAR8-02-019					02/12/88 DATE COMPLETED
08 CAR8-02-020	02/12/88 DATE COMPLETED	11 % MOISTURE	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
09 CAR8-02-022					02/12/88 DATE COMPLETED
10 CAR8-02-023	02/12/88 DATE COMPLETED	1 % MOISTURE	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
11 CAR8-02-025					02/12/88 DATE COMPLETED
12 CAR8-02-026					02/12/88 DATE COMPLETED
13 CAR8-02-027	02/12/88 DATE COMPLETED	3 % MOISTURE	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
14 CAR8-02-028	02/12/88 DATE COMPLETED	3 % MOISTURE	02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results By Test

Work Order # S8-02-040
Continued From Above

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
17 CAR8-02-011 MAT			02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
			02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	
18 REAGENT BLANK B			02/12/88 DATE COMPLETED	02/12/88 DATE COMPLETED	

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-010

SAMPLE # 01 FRACTIONS: A,B,C
Date & Time Collected 02/08/88 Category

VOA S 02/12/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-010 FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/08/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204001A

INSTRMT 5100 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.2
	74-83-9	bromomethane	ND	5.2
	75-01-4	vinyl chloride	ND	5.2
	75-00-3	chloroethane	ND	5.2
	75-09-2	methylene chloride	ND	2.9
106	67-64-1	acetone	16	7.7
	75-15-0	carbon disulfide	ND	1.8
	75-69-4	trichlorofluoromethane	ND	5.2
	75-35-4	1,1-dichloroethene	ND	4.8
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.9
	78-93-3	2-butanone	ND	26
	71-55-6	1,1,1-trichloroethane	ND	3.9
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.1
	75-27-4	bromodichloromethane	ND	2.3
	78-87-5	1,2-dichloropropane	ND	6.2
	10061-01-5	cis-1,3-dichloropropene	ND	5.2
	79-01-6	trichloroethene	ND	2.0
	124-48-1	dibromochloromethane	ND	3.2
	79-00-5	1,1,2-trichloroethane	ND	5.2
	71-43-2	benzene	ND	4.5
	10061-02-6	trans-1,3-dichloropropene	ND	5.2
	110-75-8	2-chloroethylvinyl ether	ND	5.2
	75-25-2	bromoform	ND	4.8
	591-78-6	2-hexanone	ND	37

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-010

FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/08/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	47
	127-18-4	tetrachloroethene	ND	4.2
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.1
	108-88-3	toluene	ND	6.2
	108-90-7	chlorobenzene	ND	6.2
	100-41-4	ethylbenzene	ND	7.4
	100-42-5	styrene	ND	3.1
	95-47-6	total xylenes	ND	4.7

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
206	1,2-dichloroethane-d4	99 %
397	Toluene-d8	105 %
496	BFB	103 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-011 SAMPLE # 02 FRACTIONS: A

Date & Time Collected 02/08/88 Category

BNA_S 02/12/88 DRY_WT 4 EX_BNA 02/12/88 GPC 02/12/88

DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-011 FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/08/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/12/88 FILE # 0204002A VERIFIED LAK
INSTRMT F2 INJECTD 02/19/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	690
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	690
	111-44-4	bis(2-chloroethyl) ether	ND	390
	95-57-8	2-chlorophenol	ND	230
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	300
	100-51-6	benzyl alcohol	ND	3500
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	690
	108-60-1	bis(2-chloroisopropyl)ether	ND	390
	106-44-5	4-methylphenol	ND	690
	621-64-7	n-nitroso-di-n-propylamine	ND	830
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	250
	105-67-9	2,4-dimethylphenol	ND	190
	65-85-0	benzoic acid	ND	3500
	111-91-1	bis(2-chloroethoxy)methane	ND	370
	120-83-2	2,4-dichlorophenol	ND	190
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	690
	87-68-3	hexachlorobutadiene	ND	62
	59-50-7	4-chloro-3-methylphenol	ND	210
	91-57-6	2-methylnaphthalene	ND	690

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-011 FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/08/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	420
	88-06-2	2,4,6-trichlorophenol	ND	190
	95-95-4	2,4,5-trichlorophenol	ND	690
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3500
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	240
	99-09-2	3-nitroaniline	ND	3500
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2900
	100-02-7	4-nitrophenol	ND	170
	132-64-9	dibenzofuran	ND	690
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	390
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	290
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3500
	534-52-1	4,6-dinitro-2-methylphenol	ND	1700
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	250
	85-01-8	phenanthrene	ND	370
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	3000
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	540
1563	117-81-7	bis(2-ethylhexyl)phthalate	830 B	170

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-011

FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/08/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
1655	117-84-0	di-n-octyl phthalate	340	170
	205-99-2	benzo(b)fluoranthene	ND	330
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	260
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	280

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	2-fluorophenol	79 %
389	d5-phenol	79 %
521	d5-nitrobenzene	75 %
803	2-fluorobiphenyl	71 %
1022	2,4,6-tribromophenol	71 %
1378	d14-terphenyl	128 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-013

SAMPLE # 03 FRACTIONS: A,B,C
Date & Time Collected 02/09/88 Category

VOA_S 02/12/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # 88-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-013 FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/09/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204003A

INSTRMT 5100 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
102	75-09-2	methylene chloride	5.1 B	3.1
115	67-64-1	acetone	9.4	8.4
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.3
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.3
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.5
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.5
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.3
	591-78-6	2-hexanone	ND	40

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-040
Continued From Above

SAMPLE ID CAR8-02-013 FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	52
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
404	108-88-3	toluene	6.4 J	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.1
	100-42-5	styrene	ND	3.4
	95-47-6	total xylenes	ND	5.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
208	1,2-dichloroethane-d4	102 %
401	Toluene-d8	110 %
503	BFB	105 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-014 SAMPLE # 04 FRACTIONS: A
Date & Time Collected 02/09/88 Category

BNA_S 02/12/88 (DATE COMPLETED) DRY_WT 9 (% MOISTURE) EX_BNA 02/12/88 (DATE COMPLETED) GPC 02/12/88 (DATE COMPLETED)

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-014

FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL
INSTRMT F2

EXTRCTD 02/12/88
INJECTD 02/19/88

FILE # 0204004A

VERIFIED LAK
UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	730
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	730
	111-44-4	bis(2-chloroethyl) ether	ND	420
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	320
	100-51-6	benzyl alcohol	ND	3700
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	730
	108-60-1	bis(2-chloroisopropyl)ether	ND	420
	106-44-5	4-methylphenol	ND	730
	621-64-7	n-nitroso-di-n-propylamine	ND	880
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	260
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3700
	111-91-1	bis(2-chloroethoxy)methane	ND	390
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	730
	87-68-3	hexachlorobutadiene	ND	66
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	730

SAMPLE ID CAR8-02-014 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	730
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3700
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3700
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	730
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	420
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3700
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	260
	85-01-8	phenanthrene	ND	400
	120-12-7	anthracene	ND	140
	84-74-2	di-n-butylphthalate	ND	180
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3200
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	180
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	570
1563	117-81-7	bis(2-ethylhexyl)phthalate	650 B	180

ND = None

KADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-014 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	180
	117-84-0	di-n-octyl phthalate	ND	180
	205-99-2	benzo(b)fluoranthene	ND	350
	207-08-9	benzo(k)fluoranthene	ND	180
	50-32-8	benzo(a)pyrene	ND	180
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	180
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
238	2-fluorophenol	66 %
395	d5-phenol	63 %
525	d5-nitrobenzene	70 %
805	2-fluorobiphenyl	67 %
1023	2,4,6-tribromophenol	67 %
1378	d14-terphenyl	123 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-016

SAMPLE # 05 FRACTIONS: A,B,C
Date & Time Collected 02/09/88 Category

VOA S 02/12/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # 88-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-016 FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/09/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204005A

INSTRMT 5100 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.4
	74-83-9	bromomethane	ND	5.4
	75-01-4	vinyl chloride	ND	5.4
	75-00-3	chloroethane	ND	5.4
100	75-09-2	methylene chloride	7.1 B	3.0
113	67-64-1	acetone	11	8.1
	75-15-0	carbon disulfide	ND	1.8
	75-69-4	trichlorofluoromethane	ND	5.4
	75-35-4	1,1-dichloroethene	ND	5.1
	75-34-3	1,1-dichloroethane	ND	3.0
	156-60-5	trans-1,2-dichloroethene	ND	1.7
	67-66-3	chloroform	ND	1.7
	107-06-2	1,2-dichloroethane	ND	3.0
	78-93-3	2-butanone	ND	27
	71-55-6	1,1,1-trichloroethane	ND	4.1
	56-23-5	carbon tetrachloride	ND	3.0
	108-05-4	vinyl acetate	ND	7.5
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.5
	10061-01-5	cis-1,3-dichloropropene	ND	5.4
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.3
	79-00-5	1,1,2-trichloroethane	ND	5.4
	71-43-2	benzene	ND	4.8
	10061-02-6	trans-1,3-dichloropropene	ND	5.4
	110-75-8	2-chloroethylvinyl ether	ND	5.4
	75-25-2	bromoform	ND	5.1
	591-78-6	2-hexanone	ND	39

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-016

FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	50
	127-18-4	tetrachloroethene	ND	4.4
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.5
406	108-88-3	toluene	10	6.5
	108-90-7	chlorobenzene	ND	6.5
	100-41-4	ethylbenzene	ND	7.8
	100-42-5	styrene	ND	3.2
	95-47-6	total xylenes	ND	5.0

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
207	1,2-dichloroethane-d4	96 %
402	Toluene-d8	111 %
509	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-017 SAMPLE # 06 FRACTIONS: A
Date & Time Collected 02/09/88 Category

BNA_S 02/12/88 (DATE COMPLETED) DRY_WT 9 (% MOISTURE) EX_BNA 02/12/88 (DATE COMPLETED) GPC 02/12/88 (DATE COMPLETED)

SAMPLE ID CAR8-02-017 FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/12/88 FILE # 0204006A VERIFIED LAK
INSTRMT F2 INJECTD 02/19/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	730
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	730
	111-44-4	bis(2-chloroethyl) ether	ND	420
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	320
	100-51-6	benzyl alcohol	ND	3600
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	730
	108-60-1	bis(2-chloroisopropyl)ether	ND	420
	106-44-5	4-methylphenol	ND	730
	621-64-7	n-nitroso-di-n-propylamine	ND	870
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	260
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3600
	111-91-1	bis(2-chloroethoxy)methane	ND	390
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	730
	87-68-3	hexachlorobutadiene	ND	66
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	730

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-017 FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	730
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3600
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3600
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	170
	132-64-9	dibenzofuran	ND	730
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	420
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3600
	534-52-1	4,6-dinitro-2-methylphenol	ND	1700
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	260
	85-01-8	phenanthrene	ND	390
	120-12-7	anthracene	ND	140
	84-74-2	di-n-butylphthalate	ND	180
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3200
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	180
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	570
1561	117-81-7	bis(2-ethylhexyl)phthalate	440 B	180

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-040
Continued From Above

SAMPLE ID CAR8-02-017

FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	180
1653	117-84-0	di-n-octyl phthalate	180 J	180
	205-99-2	benzo(b)fluoranthene	ND	350
	207-08-9	benzo(k)fluoranthene	ND	180
	50-32-8	benzo(a)pyrene	ND	180
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	180
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	2-fluorophenol	75 %
389	d5-phenol	77 %
521	d5-nitrobenzene	73 %
803	2-fluorobiphenyl	71 %
1021	2,4,6-tribromophenol	71 %
1376	d14-terphenyl	122 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-019

SAMPLE # 07 FRACTIONS: A,B,C
Date & Time Collected 02/09/88

Category

VOA S 02/12/88
DATE COMPLETED

SAMPLE ID CAR8-02-019 FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/09/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204007A
INSTRMT 5100 INJECTD 02/17/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.9
	74-83-9	bromomethane	ND	5.9
	75-01-4	vinyl chloride	ND	5.9
	75-00-3	chloroethane	ND	5.9
104	75-09-2	methylene chloride	17 B	3.3
117	67-64-1	acetone	18	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.9
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.3
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.1
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.9
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	5.9
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	5.9
	110-75-8	2-chloroethylvinyl ether	ND	5.9
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

KADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-019 FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	54
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.1
407	108-88-3	toluene	31	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.5
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.4

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
211	1,2-dichloroethane-d4	95 %
403	Toluene-d8	108 %
507	BFB	102 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-020 SAMPLE # 08 FRACTIONS: A
Date & Time Collected 02/09/88 Category

BNA_S 02/12/88 (DATE COMPLETED) DRY_WT 11 (% MOISTURE) EX_BNA 02/12/88 (DATE COMPLETED) GPC 02/12/88 (DATE COMPLETED)

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-020 FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/12/88 FILE # 0204008A VERIFIED LAK
INSTRMT F2 INJECTD 02/24/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	750
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	750
	111-44-4	bis(2-chloroethyl) ether	ND	430
	95-57-8	2-chlorophenol	ND	250
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	330
	100-51-6	benzyl alcohol	ND	3700
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	750
	108-60-1	bis(2-chloroisopropyl)ether	ND	430
	106-44-5	4-methylphenol	ND	750
	621-64-7	n-nitroso-di-n-propylamine	ND	900
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	270
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3700
	111-91-1	bis(2-chloroethoxy)methane	ND	400
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	750
	87-68-3	hexachlorobutadiene	ND	67
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	750

SAMPLE ID CAR8-02-020 FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	450
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	750
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3700
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3700
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	750
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	430
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3700
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	270
	85-01-8	phenanthrene	ND	400
	120-12-7	anthracene	ND	140
1225	84-74-2	di-n-butylphthalate	280	190
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3300
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	580
1551	117-81-7	bis(2-ethylhexyl)phthalate	490 B	190

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-020 FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/09/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
1642	117-84-0	di-n-octyl phthalate	260	190
	205-99-2	benzo(b)fluoranthene	ND	360
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	280
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	310

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
286	2-fluorophenol	57 %
418	d5-phenol	60 %
532	d5-nitrobenzene	61 %
798	2-fluorobiphenyl	57 %
1013	2,4,6-tribromophenol	57 %
1367	d14-terphenyl	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-022

SAMPLE # 09 FRACTIONS: A,B,C
Date & Time Collected 02/10/88 Category

VOA S 02/12/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-022 FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/10/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204009A

INSTRMT 5100 INJECTD 02/17/88 , UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.1
	74-83-9	bromomethane	ND	5.1
	75-01-4	vinyl chloride	ND	5.1
	75-00-3	chloroethane	ND	5.1
106	75-09-2	methylene chloride	87 B	2.9
	67-64-1	acetone	ND	7.7
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.1
	75-35-4	1,1-dichloroethene	ND	4.8
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.9
	78-93-3	2-butanone	ND	26
	71-55-6	1,1,1-trichloroethane	ND	3.9
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.0
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.1
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.2
	79-00-5	1,1,2-trichloroethane	ND	5.1
	71-43-2	benzene	ND	4.5
	10061-02-6	trans-1,3-dichloropropene	ND	5.1
	110-75-8	2-chloroethylvinyl ether	ND	5.1
	75-25-2	bromoform	ND	4.8
	591-78-6	2-hexanone	ND	37

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-022 FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	47
	127-18-4	tetrachloroethene	ND	4.2
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.0
407	108-88-3	toluene	1.0 J	6.1
	108-90-7	chlorobenzene	ND	6.1
	100-41-4	ethylbenzene	ND	7.3
	100-42-5	styrene	ND	3.1
	95-47-6	total xylenes	ND	4.7

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
211	1,2-dichloroethane-d4	88 %
404	Toluene-d8	108 %
509	BFB	103 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-023 SAMPLE # 10 FRACTIONS: A
Date & Time Collected 02/10/88 Category

BNA_S 02/12/88 (DATE COMPLETED) DRY_WT 1 (% MOISTURE) EX_BNA 02/12/88 (DATE COMPLETED) GPC 02/12/88 (DATE COMPLETED)

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-023 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 02/10/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/12/88 FILE # 0204010A VERIFIED LAK

INSTRMT F2 INJECTD 02/24/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-023 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
1225	84-74-2	di-n-butylphthalate	150 J	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1552	117-81-7	bis(2-ethylhexyl)phthalate	320 B	170

SAMPLE ID CAR8-02-023 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
1643	117-84-0	di-n-octyl phthalate	260	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
253	2-fluorophenol	68 %
400	d5-phenol	73 %
524	d5-nitrobenzene	73 %
798	2-fluorobiphenyl	71 %
1014	2,4,6-tribromophenol	70 %
1367	d14-terphenyl	114 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-025

SAMPLE # 11 FRACTIONS: A,B,C
Date & Time Collected 02/10/88 Category

VOA S 02/12/88
DATE COMPLETED

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-025 FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/10/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204011A

INSTRMT 5100 INJECTD 02/16/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.2
	74-83-9	bromomethane	ND	5.2
	75-01-4	vinyl chloride	ND	5.2
	75-00-3	chloroethane	ND	5.2
98	75-09-2	methylene chloride	12 B	2.9
	67-64-1	acetone	ND	7.7
	75-15-0	carbon disulfide	ND	1.8
	75-69-4	trichlorofluoromethane	ND	5.2
	75-35-4	1,1-dichloroethene	ND	4.8
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.9
	78-93-3	2-butanone	ND	26
	71-55-6	1,1,1-trichloroethane	ND	3.9
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.1
	75-27-4	bromodichloromethane	ND	2.3
	78-87-5	1,2-dichloropropane	ND	6.2
	10061-01-5	cis-1,3-dichloropropene	ND	5.2
	79-01-6	trichloroethene	ND	2.0
	124-48-1	dibromochloromethane	ND	3.2
	79-00-5	1,1,2-trichloroethane	ND	5.2
	71-43-2	benzene	ND	4.5
	10061-02-6	trans-1,3-dichloropropene	ND	5.2
	110-75-8	2-chloroethylvinyl ether	ND	5.2
	75-25-2	bromoform	ND	4.8
	591-78-6	2-hexanone	ND	37

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-025

FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	47
	127-18-4	tetrachloroethene	ND	4.2
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.1
403	108-88-3	toluene	4.1 J	6.2
	108-90-7	chlorobenzene	ND	6.2
	100-41-4	ethylbenzene	ND	7.4
	100-42-5	styrene	ND	3.1
	95-47-6	total xylenes	ND	4.7

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
204	1,2-dichloroethane-d4	107 %
400	Toluene-d8	105 %
500	BFB	107 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR8-02-026 SAMPLE # 12 FRACTIONS: A,B,C
Date & Time Collected 02/10/88 Category

VOA S 02/12/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # SB-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-026 FRACTION 12A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/10/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204012A

INSTRMT 5100 INJECTD 02/16/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.1
	74-83-9	bromomethane	ND	5.1
	75-01-4	vinyl chloride	ND	5.1
	75-00-3	chloroethane	ND	5.1
	75-09-2	methylene chloride	ND	2.9
	67-64-1	acetone	ND	7.7
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.1
	75-35-4	1,1-dichloroethene	ND	4.8
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.9
	78-93-3	2-butanone	ND	26
	71-55-6	1,1,1-trichloroethane	ND	3.9
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.0
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.1
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.2
	79-00-5	1,1,2-trichloroethane	ND	5.1
	71-43-2	benzene	ND	4.5
	10061-02-6	trans-1,3-dichloropropene	ND	5.1
	110-75-8	2-chloroethylvinyl ether	ND	5.1
	75-25-2	bromoform	ND	4.8
	591-78-6	2-hexanone	ND	37

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-040
Continued From Above

SAMPLE ID CARB-02-026 FRACTION 12A TEST CODE CLB240 NAME Purgeable Organics - Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	47
	127-18-4	tetrachloroethene	ND	4.2
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.0
400	108-88-3	toluene	8.8	6.1
	108-90-7	chlorobenzene	ND	6.1
	100-41-4	ethylbenzene	ND	7.3
	100-42-5	styrene	ND	3.1
	95-47-6	total xylenes	ND	4.7

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
205	1,2-dichloroethane-d4	100 %
397	Toluene-d8	97 %
496	BFB	102 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-027 SAMPLE # 13 FRACTIONS: A

Date & Time Collected 02/10/88 Category

BNA_S 02/12/88 (DATE COMPLETED) DRY_WT 3 (% MOISTURE) EX_BNA 02/12/88 (DATE COMPLETED) GPC 02/12/88 (DATE COMPLETED)

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-027 FRACTION 13A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/10/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/12/88 FILE # 0204013A VERIFIED LAK
INSTRMT F2 INJECTD 02/24/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	690
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	690
	111-44-4	bis(2-chloroethyl) ether	ND	390
	95-57-8	2-chlorophenol	ND	230
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	300
	100-51-6	benzyl alcohol	ND	3400
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	690
	108-60-1	bis(2-chloroisopropyl)ether	ND	390
	106-44-5	4-methylphenol	ND	690
	621-64-7	n-nitroso-di-n-propylamine	ND	820
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	250
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3400
	111-91-1	bis(2-chloroethoxy)methane	ND	360
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	690
	87-68-3	hexachlorobutadiene	ND	62
	59-50-7	4-chloro-3-methylphenol	ND	210
	91-57-6	2-methylnaphthalene	ND	690

KADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CARB-02-027

FRACTION 13A TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	410
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	690
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3400
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	240
	99-09-2	3-nitroaniline	ND	3400
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2900
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	690
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	390
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	290
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3400
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	250
	85-01-8	phenanthrene	ND	370
	120-12-7	anthracene	ND	130
1226	84-74-2	di-n-butylphthalate	210	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	3000
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	530
1552	117-81-7	bis(2-ethylhexyl)phthalate	440 B	170

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-040
Continued From Above

SAMPLE ID CAR8-02-027 FRACTION 13A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	330
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	280

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
252	2-fluorophenol	62 %
401	d5-phenol	65 %
525	d5-nitrobenzene	69 %
798	2-fluorobiphenyl	68 %
1014	2,4,6-tribromophenol	62 %
1367	d14-terphenyl	122 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-028 SAMPLE # 14 FRACTIONS: A
Date & Time Collected 02/10/88 Category

BNA S 02/12/88 DATE COMPLETED DRY WT 3 % MOISTURE EX BNA 02/12/88 DATE COMPLETED GPC 02/12/88 DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CAR8-02-028 FRACTION 14A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 02/10/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/12/88 FILE # 0204014A VERIFIED LAK

INSTRMT F2 INJECTD 02/24/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	690
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	690
	111-44-4	bis(2-chloroethyl) ether	ND	390
	95-57-8	2-chlorophenol	ND	230
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	300
	100-51-6	benzyl alcohol	ND	3400
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	690
	108-60-1	bis(2-chloroisopropyl)ether	ND	390
	106-44-5	4-methylphenol	ND	690
	621-64-7	n-nitroso-di-n-propylamine	ND	830
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	250
	105-67-9	2,4-dimethylphenol	ND	190
	65-85-0	benzoic acid	ND	3400
	111-91-1	bis(2-chloroethoxy)methane	ND	370
	120-83-2	2,4-dichlorophenol	ND	190
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	690
	87-68-3	hexachlorobutadiene	ND	62
	59-50-7	4-chloro-3-methylphenol	ND	210
	91-57-6	2-methylnaphthalene	ND	690

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-028

FRACTION 14A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	410
	88-06-2	2,4,6-trichlorophenol	ND	190
	95-95-4	2,4,5-trichlorophenol	ND	690
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3400
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	240
	99-09-2	3-nitroaniline	ND	3400
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2900
	100-02-7	4-nitrophenol	ND	170
	132-64-9	dibenzofuran	ND	690
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	390
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	290
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3400
	534-52-1	4,6-dinitro-2-methylphenol	ND	1700
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	250
	85-01-8	phenanthrene	ND	370
	120-12-7	anthracene	ND	130
1226	84-74-2	di-n-butylphthalate	96 J	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	3000
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	540
1552	117-81-7	bis(2-ethylhexyl)phthalate	250 B	170

SAMPLE ID CAR8-02-028 FRACTION 14A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/10/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
1642	117-84-0	di-n-octyl phthalate	170 J	170
	205-99-2	benzo(b)fluoranthene	ND	330
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	280

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
256	2-fluorophenol	62 %
402	d5-phenol	65 %
525	d5-nitrobenzene	67 %
798	2-fluorobiphenyl	65 %
1014	2,4,6-tribromophenol	59 %
1367	d14-terphenyl	121 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-010 MATRIX SPIKE FRACTION 15A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204015A
INSTRMT 5100 INJECTD 02/17/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	NA	10
	74-83-9	bromomethane	NA	10
	75-01-4	vinyl chloride	NA	10
	75-00-3	chloroethane	NA	10
	75-09-2	methylene chloride	NA	5.6
	67-64-1	acetone	NA	15
	75-15-0	carbon disulfide	NA	3.4
	75-69-4	trichlorofluoromethane	NA	10
148	75-35-4	1,1-dichloroethene	120	9.4
	75-34-3	1,1-dichloroethane	NA	5.6
	156-60-5	trans-1,2-dichloroethene	NA	3.2
	67-66-3	chloroform	NA	3.2
	107-06-2	1,2-dichloroethane	NA	5.6
	78-93-3	2-butanone	NA	50
	71-55-6	1,1,1-trichloroethane	NA	7.6
	56-23-5	carbon tetrachloride	NA	5.6
	108-05-4	vinyl acetate	NA	14
	75-27-4	bromodichloromethane	NA	4.4
	78-87-5	1,2-dichloropropane	NA	12
	10061-01-5	cis-1,3-dichloropropene	NA	10
282	79-01-6	trichloroethene	95	3.8
	124-48-1	dibromochloromethane	NA	6.2
	79-00-5	1,1,2-trichloroethane	NA	10
291	71-43-2	benzene	120	8.8
	10061-02-6	trans-1,3-dichloropropene	NA	10
	110-75-8	2-chloroethylvinyl ether	NA	10
	75-25-2	bromoform	NA	9.4
	591-78-6	2-hexanone	NA	72

SAMPLE ID CAR8-02-010 MATRIX SPIKE FRACTION 15A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	NA	92
	127-18-4	tetrachloroethene	NA	8.2
	79-34-5	1,1,2,2-tetrachloroethane	NA	14
400	108-88-3	toluene	110	12
418	108-90-7	chlorobenzene	100	12
	100-41-4	ethylbenzene	NA	14
	100-42-5	styrene	NA	6.0
	95-47-6	total xylenes	NA	9.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
205	1,2-dichloroethane-d4	100 %
397	Toluene-d8	107 %
497	BFB	102 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-010 MATRIX SPK DUP FRACTION 15B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0204015B
INSTRMT 5100 INJECTD 02/17/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	NA	10
	74-83-9	bromomethane	NA	10
	75-01-4	vinyl chloride	NA	10
	75-00-3	chloroethane	NA	10
	75-09-2	methylene chloride	NA	5.6
	67-64-1	acetone	NA	15
	75-15-0	carbon disulfide	NA	3.4
	75-69-4	trichlorofluoromethane	NA	10
153	75-35-4	1,1-dichloroethene	110	9.4
	75-34-3	1,1-dichloroethane	NA	5.6
	156-60-5	trans-1,2-dichloroethene	NA	3.2
	67-66-3	chloroform	NA	3.2
	107-06-2	1,2-dichloroethane	NA	5.6
	78-93-3	2-butanone	NA	50
	71-55-6	1,1,1-trichloroethane	NA	7.6
	56-23-5	carbon tetrachloride	NA	5.6
	108-05-4	vinyl acetate	NA	14
	75-27-4	bromodichloromethane	NA	4.4
	78-87-5	1,2-dichloropropane	NA	12
	10061-01-5	cis-1,3-dichloropropene	NA	10
285	79-01-6	trichloroethene	88	3.8
	124-48-1	dibromochloromethane	NA	6.2
	79-00-5	1,1,2-trichloroethane	NA	10
294	71-43-2	benzene	110	8.8
	10061-02-6	trans-1,3-dichloropropene	NA	10
	110-75-8	2-chloroethylvinyl ether	NA	10
	75-25-2	bromoform	NA	9.4
	591-78-6	2-hexanone	NA	72

SAMPLE ID CAR8-02-010 MATRIX SPK DUP FRACTION 15B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	NA	92
	127-18-4	tetrachloroethene	NA	8.2
	79-34-5	1,1,2,2-tetrachloroethane	NA	14
403	108-88-3	toluene	100	12
422	108-90-7	chlorobenzene	95	12
	100-41-4	ethylbenzene	NA	14
	100-42-5	styrene	NA	6.0
	95-47-6	total xylenes	NA	9.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY	
209	1,2-dichloroethane-d4	92	%
400	Toluene-d8	110	%
502	BFB	106	%

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # 88-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID REAGENT BLANK VOA FRACTION 16A TEST CODE CLB240 NAME Purgeable Organics - Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 5EB0216V000

INSTRMT 5100 INJECTD 02/16/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
106	75-09-2	methylene chloride	16	2.8
	67-64-1	acetone	ND	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	38

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-040
Continued From Above

SAMPLE ID REAGENT BLANK VOA FRACTION 16A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
211	1,2-dichloroethane-d4	103 %
402	Toluene-d8	104 %
505	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040

SAMPLE ID CAR8-02-011 MATRIX SPIKE SAMPLE # 17 FRACTIONS: A
Date & Time Collected not specified Category

EX BNA 02/12/88 GPC 02/12/88
DATE COMPLETED DATE COMPLETED

SAMPLE ID CAR8-02-011 MATRIX SPIKE FRACTION 17A TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/12/88 FILE # 0204017A VERIFIED LAK
INSTRMT F2 INJECTD 02/24/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	NA	10
405	108-95-2	phenol	68	1.5
	62-53-3	aniline	NA	10
	111-44-4	bis(2-chloroethyl) ether	NA	5.7
415	95-57-8	2-chlorophenol	120 QC	3.3
	541-73-1	1,3-dichlorobenzene	NA	1.9
446	106-46-7	1,4-dichlorobenzene	61	4.4
	100-51-6	benzyl alcohol	NA	50
	95-50-1	1,2-dichlorobenzene	NA	1.9
	95-48-7	2-methylphenol	NA	10
	108-60-1	bis(2-chloroisopropyl)ether	NA	5.7
	106-44-5	4-methylphenol	NA	10
513	621-64-7	n-nitroso-di-n-propylamine	72	12
	67-72-1	hexachloroethane	NA	1.6
	98-95-3	nitrobenzene	NA	1.9
	78-59-1	isophorone	NA	2.2
	88-75-5	2-nitrophenol	NA	3.6
	105-67-9	2,4-dimethylphenol	NA	2.7
	65-85-0	benzoic acid	NA	50
	111-91-1	bis(2-chloroethoxy)methane	NA	5.3
	120-83-2	2,4-dichlorophenol	NA	2.7
626	120-82-1	1,2,4-trichlorobenzene	69	1.9
	91-20-3	naphthalene	NA	1.6
	106-47-8	4-chloroaniline	NA	10
	87-68-3	hexachlorobutadiene	NA	0.90
727	59-50-7	4-chloro-3-methylphenol	71	3.0
	91-57-6	2-methylnaphthalene	NA	10

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 Results by Sample Continued From Above

SAMPLE ID CAR8-02-011 MATRIX SPIKE FRACTION 17A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	NA	6.0
	88-06-2	2,4,6-trichlorophenol	NA	2.7
	95-95-4	2,4,5-trichlorophenol	NA	10
	91-58-7	2-chloronaphthalene	NA	1.9
	88-74-4	2-nitroaniline	NA	50
	131-11-3	dimethyl phthalate	NA	1.6
	208-96-8	acenaphthylene	NA	3.5
	99-09-2	3-nitroaniline	NA	50
901	83-32-9	acenaphthene	75	1.9
	51-28-5	2,4-dinitrophenol	NA	42
927	100-02-7	4-nitrophenol	71	2.4
	132-64-9	dibenzofuran	NA	10
	606-20-2	2,6-dinitrotoluene	NA	1.9
934	121-14-2	2,4-dinitrotoluene	68	5.7
	84-66-2	diethylphthalate	NA	1.9
	7005-72-3	4-chlorophenyl-phenylether	NA	4.2
	86-73-7	fluorene	NA	1.9
	100-01-06	4-nitroaniline	NA	50
	534-52-1	4,6-dinitro-2-methylphenol	NA	24
	86-30-6	n-nitrosodiphenylamine	NA	1.9
	101-55-3	4-bromophenyl-phenylether	NA	1.9
	118-74-1	hexachlorobenzene	NA	1.9
1101	87-86-5	pentachlorophenol	60	3.6
	85-01-8	phenanthrene	NA	5.4
	120-12-7	anthracene	NA	1.9
	84-74-2	di-n-butylphthalate	NA	2.5
	206-44-0	fluoranthene	NA	2.2
	92-87-5	benzidine	NA	44
1336	129-00-0	pyrene	40	1.9
	85-68-7	butylbenzylphthalate	NA	2.5
	91-94-1	3,3'-dichlorobenzidine	NA	17
	56-55-3	benzo(a)anthracene	NA	7.8
	117-81-7	bis(2-ethylhexyl)phthalate	NA	2.5

SAMPLE ID CAR8-02-011 MATRIX SPIKE FRACTION 17A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	NA	2.5
	117-84-0	di-n-octyl phthalate	NA	2.5
	205-99-2	benzo(b)fluoranthene	NA	4.8
	207-08-9	benzo(k)fluoranthene	NA	2.5
	50-32-8	benzo(a)pyrene	NA	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	NA	3.7
	53-70-3	dibenz(a,h)anthracene	NA	2.5
	191-24-2	benzo(ghi)perylene	NA	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
258	2-fluorophenol	62 %
403	d5-phenol	63 %
527	d5-nitrobenzene	65 %
800	2-fluorobiphenyl	65 %
1016	2,4,6-tribromophenol	61 %
1370	d14-terphenyl	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # SB-02-040

Received: 02/11/88 Results by Sample

SAMPLE ID CARB-02-011 MATRIX SPK DUP SAMPLE # 17 FRACTIONS: B

Date & Time Collected not specified Category

EX BNA 02/12/88 GPC 02/12/88

DATE COMPLETED DATE COMPLETED

SAMPLE ID CARB-02-011 MATRIX SPK DUP FRACTION 17B TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/12/88 FILE # 0204017B VERIFIED LAK
INSTRMT F2 INJECTD 02/24/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	NA	10
406	108-95-2	phenol	41	1.5
	62-53-3	aniline	NA	10
	111-44-4	bis(2-chloroethyl) ether	NA	5.7
414	95-57-8	2-chlorophenol	63	3.3
	541-73-1	1,3-dichlorobenzene	NA	1.9
445	106-46-7	1,4-dichlorobenzene	34	4.4
	100-51-6	benzyl alcohol	NA	50
	95-50-1	1,2-dichlorobenzene	NA	1.9
	95-48-7	2-methylphenol	NA	10
	108-60-1	bis(2-chloroisopropyl)ether	NA	5.7
	106-44-5	4-methylphenol	NA	10
513	621-64-7	n-nitroso-di-n-propylamine	73	12
	67-72-1	hexachloroethane	NA	1.6
	98-95-3	nitrobenzene	NA	1.9
	78-59-1	isophorone	NA	2.2
	88-75-5	2-nitrophenol	NA	3.6
	105-67-9	2,4-dimethylphenol	NA	2.7
	65-85-0	benzoic acid	NA	50
	111-91-1	bis(2-chloroethoxy)methane	NA	5.3
	120-83-2	2,4-dichlorophenol	NA	2.7
625	120-82-1	1,2,4-trichlorobenzene	72	1.9
	91-20-3	naphthalene	NA	1.6
	106-47-8	4-chloroaniline	NA	10
	87-68-3	hexachlorobutadiene	NA	0.90
726	59-50-7	4-chloro-3-methylphenol	76	3.0
	91-57-6	2-methylnaphthalene	NA	10

KADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-040
Continued From Above

SAMPLE ID CAR8-02-011 MATRIX SPK DUP FRACTION 17B TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	NA	6.0
	88-06-2	2,4,6-trichlorophenol	NA	2.7
	95-95-4	2,4,5-trichlorophenol	NA	10
	91-58-7	2-chloronaphthalene	NA	1.9
	88-74-4	2-nitroaniline	NA	50
	131-11-3	dimethyl phthalate	NA	1.6
	208-96-8	acenaphthylene	NA	3.5
	99-09-2	3-nitroaniline	NA	50
899	83-32-9	acenaphthene	81	1.9
	51-28-5	2,4-dinitrophenol	NA	42
925	100-02-7	4-nitrophenol	91	2.4
	132-64-9	dibenzofuran	NA	10
	606-20-2	2,6-dinitrotoluene	NA	1.9
933	121-14-2	2,4-dinitrotoluene	78	5.7
	84-66-2	diethylphthalate	NA	1.9
	7005-72-3	4-chlorophenyl-phenylether	NA	4.2
	86-73-7	fluorene	NA	1.9
	100-01-06	4-nitroaniline	NA	50
	534-52-1	4,6-dinitro-2-methylphenol	NA	24
	86-30-6	n-nitrosodiphenylamine	NA	1.9
	101-55-3	4-bromophenyl-phenylether	NA	1.9
	118-74-1	hexachlorobenzene	NA	1.9
1099	87-86-5	pentachlorophenol	68	3.6
	85-01-8	phenanthrene	NA	5.4
	120-12-7	anthracene	NA	1.9
	84-74-2	di-n-butylphthalate	NA	2.5
	206-44-0	fluoranthene	NA	2.2
	92-87-5	benzidine	NA	44
1334	129-00-0	pyrene	40	1.9
	85-68-7	butylbenzylphthalate	NA	2.5
	91-94-1	3,3'-dichlorobenzidine	NA	17
	56-55-3	benzo(a)anthracene	NA	7.8
	117-81-7	bis(2-ethylhexyl)phthalate	NA	2.5

SAMPLE ID CAR8-02-011 MATRIX SPK DUP FRACTION 17B TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	NA	2.5
	117-84-0	di-n-octyl phthalate	NA	2.5
	205-99-2	benzo(b)fluoranthene	NA	4.8
	207-08-9	benzo(k)fluoranthene	NA	2.5
	50-32-8	benzo(a)pyrene	NA	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	NA	3.7
	53-70-3	dibenz(a,h)anthracene	NA	2.5
	191-24-2	benzo(ghi)perylene	NA	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
254	2-fluorophenol	59 %
402	d5-phenol	66 %
526	d5-nitrobenzene	67 %
798	2-fluorobiphenyl	66 %
1014	2,4,6-tribromophenol	58 %
1368	d14-terphenyl	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/11/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-040

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 18 FRACTIONS: A
Date & Time Collected not specified Category

EX BNA 02/12/88 GPC 02/12/88
DATE COMPLETED DATE COMPLETED

SAMPLE ID REAGENT BLANK BNA FRACTION 18A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/12/88 FILE # 0204018A VERIFIED LAK
INSTRMT F2 INJECTD 02/19/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-040

Received: 02/11/88 Results by Sample Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 18A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1560	117-81-7	bis(2-ethylhexyl)phthalate	690	170

SAMPLE ID REAGENT BLANK BNA FRACTION 18A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
295	2-fluorophenol	71 %
420	d5-phenol	72 %
535	d5-nitrobenzene	71 %
803	2-fluorobiphenyl	68 %
1019	2,4,6-tribromophenol	64 %
1374	d14-terphenyl	120 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C	I	DUP624
03C	I	DUP624
05C	I	DUP624
07C	I	DUP624
09C	I	DUP624
11C	I	DUP624
12C	I	DUP624

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT

03/16/88 10:09:42

Work Order # S8-02-056

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES 17
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: SITE 1 SOILS
TAKEN: 2/14-2/15/88
TRANS: FEDERAL 5910117872
TYPE: SOIL-BNA/VOA
P.O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

Lucas Petkovsek
CERTIFIED BY

CONTACT LARRY FRENCH

QC = Outside control limit. While high d14-terphenyl surrogate recovery was noted in BNA reagent blank, all d14-terphenyl recoveries for samples are within control limits.

SAMPLE IDENTIFICATION

01 CAR 8-02-031 VOA
02 CAR 8-02-032 BNA
03 CAR 8-02-034 VOA
04 CAR 8-02-035 BNA
05 CAR 8-02-037 VOA
06 CAR 8-02-038 BNA
07 CAR 8-02-040 VOA
08 CAR 8-02-041 BNA
09 CAR 8-02-043 VOA
10 CAR 8-02-045 VOA
11 CAR 8-02-047 VOA
12 CAR 8-02-049 VOA
13 CAR 8-02-051 VOA
14 CAR 8-02-053 VOA
15 CAR 8-02-055 VOA
16 REAGENT BLANK VOA
17 REAGENT BLANK BNA

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results By Test

Work Order # S8-02-056

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed		02/16/88 DATE COMPLETED		02/16/88 DATE COMPLETED	
DRY_WT % moisture		9 % MOISTURE		13 % MOISTURE	
EX_BNA date completed		02/17/88 DATE COMPLETED		02/17/88 DATE COMPLETED	
GPC date completed		02/17/88 DATE COMPLETED		02/17/88 DATE COMPLETED	
VOA_S date completed	02/16/88 DATE COMPLETED		02/16/88 DATE COMPLETED		02/16/88 DATE COMPLETED

TEST CODE default units	Sample 06 (entered units)	Sample 07 (entered units)	Sample 08 (entered units)	Sample 09 (entered units)	Sample 10 (entered units)
BNA_S date completed	02/16/88 DATE COMPLETED		02/16/88 DATE COMPLETED		
DRY_WT % moisture	9 % MOISTURE		11 % MOISTURE		
EX_BNA date completed	02/17/88 DATE COMPLETED		02/17/88 DATE COMPLETED		
GPC date completed	02/17/88 DATE COMPLETED		02/17/88 DATE COMPLETED		
VOA_S date completed		02/16/88 DATE COMPLETED		02/16/88 DATE COMPLETED	02/16/88 DATE COMPLETED

Received: 02/16/88

RAS Sacramento REPORT

Results By Test

Work Order # S8-02-056

TEST CODE default units	Sample 11 (entered units)	Sample 12 (entered units)	Sample 13 (entered units)	Sample 14 (entered units)	Sample 15 (entered units)
VOA_S date completed	02/16/88 DATE COMPLETED	02/16/88 DATE COMPLETED	02/16/88 DATE COMPLETED	02/16/88 DATE COMPLETED	02/16/88 DATE COMPLETED

TEST CODE default units	Sample 17 (entered units)
EX_BNA date completed	02/17/88 DATE COMPLETED
GPC date completed	02/17/88 DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # 88-02-056

Received: 02/16/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR 8-02-031 VO					02/16/88 DATE COMPLETED
02 CAR 8-02-032 BN	02/16/88 DATE COMPLETED	9 % MOISTURE	02/17/88 DATE COMPLETED	02/17/88 DATE COMPLETED	
03 CAR 8-02-034 VO					02/16/88 DATE COMPLETED
04 CAR 8-02-035 BN	02/16/88 DATE COMPLETED	13 % MOISTURE	02/17/88 DATE COMPLETED	02/17/88 DATE COMPLETED	
05 CAR 8-02-037 VO					02/16/88 DATE COMPLETED
06 CAR 8-02-038 BN	02/16/88 DATE COMPLETED	9 % MOISTURE	02/17/88 DATE COMPLETED	02/17/88 DATE COMPLETED	
07 CAR 8-02-040 VO					02/16/88 DATE COMPLETED
08 CAR 8-02-041 BN	02/16/88 DATE COMPLETED	11 % MOISTURE	02/17/88 DATE COMPLETED	02/17/88 DATE COMPLETED	
09 CAR 8-02-043 VO					02/16/88 DATE COMPLETED
10 CAR 8-02-045 VO					02/16/88 DATE COMPLETED
11 CAR 8-02-047 VO					02/16/88 DATE COMPLETED
12 CAR 8-02-049 VO					02/16/88 DATE COMPLETED
13 CAR 8-02-051 VO					02/16/88 DATE COMPLETED
14 CAR 8-02-053 VO					02/16/88 DATE COMPLETED

Received: 02/16/88

RAS Sacramento REPORT
Results By Test

Work Order # 88-02-056
Continued From Above

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
15 CAR 8-02-055 VO					02/16/88 DATE COMPLETED
17 REAGENT BLANK B			02/17/88 DATE COMPLETED	02/17/88 DATE COMPLETED	

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-031 VOA

SAMPLE # 01 FRACTIONS: A,B,C
Date & Time Collected 02/14/88 Category

VOA S 02/16/88
DATE COMPLETED

Received: 02/16/88 Results by Sample

SAMPLE ID CAR 8-02-031 VOA FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205601A

INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
137	75-09-2	methylene chloride	2.6 BJ	3.1
147	67-64-1	acetone	9.4 B	8.3
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.2
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.2
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.4
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.2
	591-78-6	2-hexanone	ND	40

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-031 VOA FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	51
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
408	108-88-3	toluene	1.6 J	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.0
	100-42-5	styrene	ND	3.3
	95-47-6	total xylenes	ND	5.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	94 %
405	Toluene-d8	98 %
513	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-032 BNA

SAMPLE # 02 FRACTIONS: A
Date & Time Collected 02/14/88 Category

BNA_S 02/16/88 (DATE COMPLETED) DRY_WT 9 (% MOISTURE) EX_BNA 02/17/88 (DATE COMPLETED) GPC 02/17/88 (DATE COMPLETED)

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-056

Received: 02/16/88

Results by Sample

SAMPLE ID CAR 8-02-032 BNA FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/17/88 FILE # 0205602A VERIFIED LAK

INSTRMT F2 INJECTD 02/19/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	730
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	730
	111-44-4	bis(2-chloroethyl) ether	ND	410
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	320
	100-51-6	benzyl alcohol	ND	3600
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	730
	108-60-1	bis(2-chloroisopropyl)ether	ND	410
	106-44-5	4-methylphenol	ND	730
	621-64-7	n-nitroso-di-n-propylamine	ND	870
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	260
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3600
	111-91-1	bis(2-chloroethoxy)methane	ND	390
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	730
	87-68-3	hexachlorobutadiene	ND	66
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	730

SAMPLE ID CAR 8-02-032 BNA FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	730
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3600
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	250
	99-09-2	3-nitroaniline	ND	3600
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	170
	132-64-9	dibenzofuran	ND	730
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	410
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3600
	534-52-1	4,6-dinitro-2-methylphenol	ND	1700
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	260
	85-01-8	phenanthrene	ND	390
	120-12-7	anthracene	ND	140
	84-74-2	di-n-butylphthalate	ND	180
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3200
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	180
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	570
1566	117-81-7	bis(2-ethylhexyl)phthalate	270 B	180

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-032 BNA FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	180
1658	117-84-0	di-n-octyl phthalate	340	180
	205-99-2	benzo(b)fluoranthene	ND	350
	207-08-9	benzo(k)fluoranthene	ND	180
	50-32-8	benzo(a)pyrene	ND	180
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	180
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
237	2-fluorophenol	67 %
396	d5-phenol	65 %
526	d5-nitrobenzene	68 %
807	2-fluorobiphenyl	66 %
1025	2,4,6-tribromophenol	71 %
1381	d14-terphenyl	114 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-034 VOA

SAMPLE # 03 FRACTIONS: A,B,C
Date & Time Collected 02/14/88

Category

VOA S 02/16/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-056

Received: 02/16/88 Results by Sample

SAMPLE ID CAR 8-02-034 VOA FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205603A

INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.7
	74-83-9	bromomethane	ND	5.7
	75-01-4	vinyl chloride	ND	5.7
	75-00-3	chloroethane	ND	5.7
130	75-09-2	methylene chloride	2.6 BJ	3.2
142	67-64-1	acetone	5.1 BJ	8.6
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.7
	75-35-4	1,1-dichloroethene	ND	5.4
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.3
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	7.9
	75-27-4	bromodichloromethane	ND	2.5
	78-87-5	1,2-dichloropropane	ND	6.8
	10061-01-5	cis-1,3-dichloropropene	ND	5.7
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.5
	79-00-5	1,1,2-trichloroethane	ND	5.7
	71-43-2	benzene	ND	5.0
	10061-02-6	trans-1,3-dichloropropene	ND	5.7
	110-75-8	2-chloroethylvinyl ether	ND	5.7
	75-25-2	bromoform	ND	5.4
	591-78-6	2-hexanone	ND	41

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-034 VOA

FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	52
	127-18-4	tetrachloroethene	ND	4.7
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.9
409	108-88-3	toluene	2.4 J	6.8
	108-90-7	chlorobenzene	ND	6.8
	100-41-4	ethylbenzene	ND	8.2
	100-42-5	styrene	ND	3.4
	95-47-6	total xylenes	ND	5.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	95 %
406	Toluene-d8	98 %
514	BFB	98 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-056

Received: 02/16/88

Results by Sample

SAMPLE ID CAR 8-02-035 BNA SAMPLE # 04 FRACTIONS: A

Date & Time Collected 02/14/88 Category

BNA S 02/16/88 DRY WT 13 EX BNA 02/17/88 GPC 02/17/88

DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

SAMPLE ID CAR 8-02-035 BNA FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/17/88 FILE # 0205604A VERIFIED LAK
INSTRMT F2 INJECTD 02/19/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	770
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	770
	111-44-4	bis(2-chloroethyl) ether	ND	440
	95-57-8	2-chlorophenol	ND	250
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	340
	100-51-6	benzyl alcohol	ND	3900
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	770
	108-60-1	bis(2-chloroisopropyl)ether	ND	440
	106-44-5	4-methylphenol	ND	770
	621-64-7	n-nitroso-di-n-propylamine	ND	920
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	280
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	3900
	111-91-1	bis(2-chloroethoxy)methane	ND	410
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	770
	87-68-3	hexachlorobutadiene	ND	69
	59-50-7	4-chloro-3-methylphenol	ND	230
	91-57-6	2-methylnaphthalene	ND	770

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-035 BNA FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	460
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	770
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	3900
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	270
	99-09-2	3-nitroaniline	ND	3900
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3200
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	770
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	440
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	320
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	3900
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	280
	85-01-8	phenanthrene	ND	420
	120-12-7	anthracene	ND	150
	84-74-2	di-n-butylphthalate	ND	190
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3400
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	600
1563	117-81-7	bis(2-ethylhexyl)phthalate	210 B	190

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-035 BNA

FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
	117-84-0	di-n-octyl phthalate	ND	190
	205-99-2	benzo(b)fluoranthene	ND	370
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	280
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
250	2-fluorophenol	66 %
402	d5-phenol	66 %
528	d5-nitrobenzene	67 %
804	2-fluorobiphenyl	65 %
1022	2,4,6-tribromophenol	62 %
1377	d14-terphenyl	119 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-056

Received: 02/16/88 Results by Sample

SAMPLE ID CAR 8-02-037 VOA SAMPLE # 05 FRACTIONS: A,B,C

Date & Time Collected 02/14/88 Category

VOA S 02/16/88
DATE COMPLETED

Received: 02/16/88

Results by Sample

SAMPLE ID CAR 8-02-037 VOA FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205605A

INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
134	75-09-2	methylene chloride	1.8 BJ	3.1
145	67-64-1	acetone	9.9 B	8.3
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.2
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.2
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.4
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.2
	591-78-6	2-hexanone	ND	40

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-037 VOA

FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	51
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
408	108-88-3	toluene	3.9 J	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.0
	100-42-5	styrene	ND	3.3
	95-47-6	total xylenes	ND	5.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	93 %
405	Toluene-d8	100 %
512	BFB	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-056

SAMPLE ID CAR 8-02-038 BNA

SAMPLE # 06 FRACTIONS: A
Date & Time Collected 02/14/88 Category

BNA_S 02/16/88 (DATE COMPLETED) DRY_WT 9 (% MOISTURE) EX_BNA 02/17/88 (DATE COMPLETED) GPC 02/17/88 (DATE COMPLETED)

Received: 02/16/88

Results by Sample

SAMPLE ID CAR 8-02-038 BNA FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/17/88 FILE # 0205606A VERIFIED LAK

INSTRMT F2 INJECTD 02/19/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	730
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	730
	111-44-4	bis(2-chloroethyl) ether	ND	420
	95-57-8	2-chlorophenol	ND	240
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	320
	100-51-6	benzyl alcohol	ND	3700
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	730
	108-60-1	bis(2-chloroisopropyl)ether	ND	420
	106-44-5	4-methylphenol	ND	730
	621-64-7	n-nitroso-di-n-propylamine	ND	880
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	160
	88-75-5	2-nitrophenol	ND	260
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3700
	111-91-1	bis(2-chloroethoxy)methane	ND	390
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	730
	87-68-3	hexachlorobutadiene	ND	66
	59-50-7	4-chloro-3-methylphenol	ND	220
	91-57-6	2-methylnaphthalene	ND	730

SAMPLE ID CAR 8-02-038 BNA FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	440
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	730
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3700
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3700
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3100
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	730
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	420
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	310
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3700
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	260
	85-01-8	phenanthrene	ND	400
	120-12-7	anthracene	ND	140
	84-74-2	di-n-butylphthalate	ND	180
	206-44-0	fluoranthene	ND	160
	92-87-5	benzidine	ND	3200
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	180
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	570
1561	117-81-7	bis(2-ethylhexyl)phthalate	260 B	180

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-038 BNA

FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	180
1653	117-84-0	di-n-octyl phthalate	270	180
	205-99-2	benzo(b)fluoranthene	ND	350
	207-08-9	benzo(k)fluoranthene	ND	180
	50-32-8	benzo(a)pyrene	ND	180
	193-39-5	indeno(1,2,3-cd)pyrene	ND	270
	53-70-3	dibenz(a,h)anthracene	ND	180
	191-24-2	benzo(ghi)perylene	ND	300

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
299	2-fluorophenol	66 %
423	d5-phenol	70 %
537	d5-nitrobenzene	68 %
804	2-fluorobiphenyl	67 %
1021	2,4,6-tribromophenol	66 %
1376	d14-terphenyl	109 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR 8-02-040 VOA SAMPLE # 07 FRACTIONS: A,B,C
Date & Time Collected 02/14/88 Category

VOA S 02/16/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-056

Received: 02/16/88 Results by Sample

SAMPLE ID CAR 8-02-040 VOA FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205607A

INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
	75-09-2	methylene chloride	ND	3.1
146	67-64-1	acetone	9.3 B	8.3
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.2
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.2
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.4
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.2
	591-78-6	2-hexanone	ND	40

SAMPLE ID CAR 8-02-040 VOA FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	51
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
408	108-88-3	toluene	7.5	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.0
	100-42-5	styrene	ND	3.3
	95-47-6	total xylenes	ND	5.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	94 %
405	Toluene-d8	98 %
513	BFB	98 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/16/88

Results by Sample

SAMPLE ID CAR 8-02-041 BNA SAMPLE # 08 FRACTIONS: A

Date & Time Collected 02/14/88 Category

BNA_S 02/16/88 (DATE COMPLETED) DRY_WT 11 (% MOISTURE) EX_BNA 02/17/88 (DATE COMPLETED) GPC 02/17/88 (DATE COMPLETED)

SAMPLE ID CAR 8-02-041 BNA FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/17/88 FILE # 0205608A VERIFIED LAK
INSTRMT F2 INJECTD 02/19/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	750
	108-95-2	phenol	ND	110
	62-53-3	aniline	ND	750
	111-44-4	bis(2-chloroethyl) ether	ND	430
	95-57-8	2-chlorophenol	ND	250
	541-73-1	1,3-dichlorobenzene	ND	140
	106-46-7	1,4-dichlorobenzene	ND	330
	100-51-6	benzyl alcohol	ND	3800
	95-50-1	1,2-dichlorobenzene	ND	140
	95-48-7	2-methylphenol	ND	750
	108-60-1	bis(2-chloroisopropyl)ether	ND	430
	106-44-5	4-methylphenol	ND	750
	621-64-7	n-nitroso-di-n-propylamine	ND	900
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	140
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	270
	105-67-9	2,4-dimethylphenol	ND	200
	65-85-0	benzoic acid	ND	3800
	111-91-1	bis(2-chloroethoxy)methane	ND	400
	120-83-2	2,4-dichlorophenol	ND	200
	120-82-1	1,2,4-trichlorobenzene	ND	140
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	750
	87-68-3	hexachlorobutadiene	ND	68
	59-50-7	4-chloro-3-methylphenol	ND	230
	91-57-6	2-methylnaphthalene	ND	750

SAMPLE ID CAR 8-02-041 BNA FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	450
	88-06-2	2,4,6-trichlorophenol	ND	200
	95-95-4	2,4,5-trichlorophenol	ND	750
	91-58-7	2-chloronaphthalene	ND	140
	88-74-4	2-nitroaniline	ND	3800
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	260
	99-09-2	3-nitroaniline	ND	3800
	83-32-9	acenaphthene	ND	140
	51-28-5	2,4-dinitrophenol	ND	3200
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	750
	606-20-2	2,6-dinitrotoluene	ND	140
	121-14-2	2,4-dinitrotoluene	ND	430
	84-66-2	diethylphthalate	ND	140
	7005-72-3	4-chlorophenyl-phenylether	ND	320
	86-73-7	fluorene	ND	140
	100-01-06	4-nitroaniline	ND	3800
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	140
	101-55-3	4-bromophenyl-phenylether	ND	140
	118-74-1	hexachlorobenzene	ND	140
	87-86-5	pentachlorophenol	ND	270
	85-01-8	phenanthrene	ND	410
	120-12-7	anthracene	ND	140
	84-74-2	di-n-butylphthalate	ND	190
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3300
	129-00-0	pyrene	ND	140
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1200
	56-55-3	benzo(a)anthracene	ND	590
1562	117-81-7	bis(2-ethylhexyl)phthalate	230 B	190

SAMPLE ID CAR 8-02-041 BNA FRACTION OBA TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
1654	117-84-0	di-n-octyl phthalate	380	190
	205-99-2	benzo(b)fluoranthene	ND	360
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	280
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	310

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
273	2-fluorophenol	60 %
412	d5-phenol	67 %
532	d5-nitrobenzene	64 %
804	2-fluorobiphenyl	64 %
1021	2,4,6-tribromophenol	62 %
1376	d14-terphenyl	111 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-043 VOA

SAMPLE # 09 FRACTIONS: A,B,C
Date & Time Collected 02/14/88 Category

VOA S 02/16/88
DATE COMPLETED

SAMPLE ID CAR 8-02-043 VOA FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205609A
INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	6.0
	74-83-9	bromomethane	ND	6.0
	75-01-4	vinyl chloride	ND	6.0
	75-00-3	chloroethane	ND	6.0
	75-09-2	methylene chloride	ND	3.3
141	67-64-1	acetone	6.0 BJ	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	6.0
	75-35-4	1,1-dichloroethene	ND	5.6
	75-34-3	1,1-dichloroethane	ND	3.3
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.2
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	6.0
	79-01-6	trichloroethene	ND	2.3
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	6.0
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	6.0
	110-75-8	2-chloroethylvinyl ether	ND	6.0
	75-25-2	bromoform	ND	5.6
	591-78-6	2-hexanone	ND	43

SAMPLE ID CAR 8-02-043 VOA FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	55
	127-18-4	tetrachloroethene	ND	4.9
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.2
	108-88-3	toluene	ND	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.6
	100-42-5	styrene	ND	3.6
	95-47-6	total xylenes	ND	5.5

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	1,2-dichloroethane-d4	95 %
405	Toluene-d8	99 %
513	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR 8-02-045 VOA SAMPLE # 10 FRACTIONS: A,B,C
Date & Time Collected 02/14/88 Category

VOA S 02/16/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # 88-02-056

Received: 02/16/88 Results by Sample

SAMPLE ID CAR 8-02-045 VOA FRACTION 10A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/14/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205610A

INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.6
	74-83-9	bromomethane	ND	5.6
	75-01-4	vinyl chloride	ND	5.6
	75-00-3	chloroethane	ND	5.6
	75-09-2	methylene chloride	ND	3.1
143	67-64-1	acetone	5.6 BJ	8.3
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.6
	75-35-4	1,1-dichloroethene	ND	5.2
	75-34-3	1,1-dichloroethane	ND	3.1
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.1
	78-93-3	2-butanone	ND	28
	71-55-6	1,1,1-trichloroethane	ND	4.2
	56-23-5	carbon tetrachloride	ND	3.1
	108-05-4	vinyl acetate	ND	7.7
	75-27-4	bromodichloromethane	ND	2.4
	78-87-5	1,2-dichloropropane	ND	6.7
	10061-01-5	cis-1,3-dichloropropene	ND	5.6
	79-01-6	trichloroethene	ND	2.1
	124-48-1	dibromochloromethane	ND	3.4
	79-00-5	1,1,2-trichloroethane	ND	5.6
	71-43-2	benzene	ND	4.9
	10061-02-6	trans-1,3-dichloropropene	ND	5.6
	110-75-8	2-chloroethylvinyl ether	ND	5.6
	75-25-2	bromoform	ND	5.2
	591-78-6	2-hexanone	ND	40

SAMPLE ID CAR 8-02-045 VOA

FRACTION 10A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/14/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	51
	127-18-4	tetrachloroethene	ND	4.6
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.7
408	108-88-3	toluene	6.9	6.7
	108-90-7	chlorobenzene	ND	6.7
	100-41-4	ethylbenzene	ND	8.0
	100-42-5	styrene	ND	3.3
	95-47-6	total xylenes	ND	5.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	1,2-dichloroethane-d4	95 %
405	Toluene-d8	101 %
512	BFB	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/16/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-047 VOA

SAMPLE # 11 FRACTIONS: A,B,C

Date & Time Collected 02/15/88

Category

VOA S 02/16/88
DATE COMPLETED

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-056

SAMPLE ID CAR 8-02-047 VOA

FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/15/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205611R
INSTRMT F4 INJECTD 02/27/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	3800
	74-83-9	bromomethane	ND	3800
	75-01-4	vinyl chloride	ND	3800
	75-00-3	chloroethane	ND	3800
	75-09-2	methylene chloride	ND	2100
148	67-64-1	acetone	5800 B	5600
	75-15-0	carbon disulfide	ND	1300
	75-69-4	trichlorofluoromethane	ND	3800
	75-35-4	1,1-dichloroethene	ND	3500
	75-34-3	1,1-dichloroethane	ND	2100
	156-60-5	trans-1,2-dichloroethene	ND	1200
	67-66-3	chloroform	ND	1200
	107-06-2	1,2-dichloroethane	ND	2100
230	78-93-3	2-butanone	6800 BJ	19000
	71-55-6	1,1,1-trichloroethane	ND	2900
	56-23-5	carbon tetrachloride	ND	2100
	108-05-4	vinyl acetate	ND	5200
	75-27-4	bromodichloromethane	ND	1700
	78-87-5	1,2-dichloropropane	ND	4500
	10061-01-5	cis-1,3-dichloropropene	ND	3800
	79-01-6	trichloroethene	ND	1400
	124-48-1	dibromochloromethane	ND	2300
	79-00-5	1,1,2-trichloroethane	ND	3800
308	71-43-2	benzene	7800	3300
	10061-02-6	trans-1,3-dichloropropene	ND	3800
	110-75-8	2-chloroethylvinyl ether	ND	3800
	75-25-2	bromoform	ND	3500
	591-78-6	2-hexanone	ND	27000

SAMPLE ID CAR 8-02-047 VOA

FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/15/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	35000
	127-18-4	tetrachloroethene	ND	3100
	79-34-5	1,1,2,2-tetrachloroethane	ND	5200
408	108-88-3	toluene	110000	4500
	108-90-7	chlorobenzene	ND	4500
465	100-41-4	ethylbenzene	41000	5400
	100-42-5	styrene	ND	2300
552	95-47-6	total xylenes	280000	3500

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY	
228	1,2-dichloroethane-d4	97	%
405	Toluene-d8	99	%
513	BFB	104	%

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-049 VOA

SAMPLE # 12 FRACTIONS: A,B,C
Date & Time Collected 02/15/88 Category

VOA S 02/16/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-049 VOA FRACTION 12A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/15/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205612A
INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.8
	74-83-9	bromomethane	ND	5.8
	75-01-4	vinyl chloride	ND	5.8
	75-00-3	chloroethane	ND	5.8
	75-09-2	methylene chloride	ND	3.2
147	67-64-1	acetone	27 B	8.7
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.8
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.4
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	8.0
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.8
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.6
	79-00-5	1,1,2-trichloroethane	ND	5.8
	71-43-2	benzene	ND	5.1
	10061-02-6	trans-1,3-dichloropropene	ND	5.8
	110-75-8	2-chloroethylvinyl ether	ND	5.8
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-049 VOA FRACTION 12A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/15/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	53
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.0
	108-88-3	toluene	ND	7.0
	108-90-7	chlorobenzene	ND	7.0
	100-41-4	ethylbenzene	ND	8.4
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	97 %
405	Toluene-d8	96 %
513	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR 8-02-051 VOA SAMPLE # 13 FRACTIONS: A,B,C
Date & Time Collected 02/15/88 Category

VOA S 02/16/88
DATE COMPLETED

Received: 02/16/88 Results by Sample

SAMPLE ID CAR 8-02-051 VOA FRACTION 13A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/15/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205613A

INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.7
	74-83-9	bromomethane	ND	5.7
	75-01-4	vinyl chloride	ND	5.7
	75-00-3	chloroethane	ND	5.7
	75-09-2	methylene chloride	ND	3.2
143	67-64-1	acetone	5.6 BJ	8.6
	75-15-0	carbon disulfide	ND	1.9
	75-69-4	trichlorofluoromethane	ND	5.7
	75-35-4	1,1-dichloroethene	ND	5.4
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.3
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	7.9
	75-27-4	bromodichloromethane	ND	2.5
	78-87-5	1,2-dichloropropane	ND	6.8
	10061-01-5	cis-1,3-dichloropropene	ND	5.7
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.5
	79-00-5	1,1,2-trichloroethane	ND	5.7
	71-43-2	benzene	ND	5.0
	10061-02-6	trans-1,3-dichloropropene	ND	5.7
	110-75-8	2-chloroethylvinyl ether	ND	5.7
	75-25-2	bromoform	ND	5.4
	591-78-6	2-hexanone	ND	41

SAMPLE ID CAR 8-02-051 VOA FRACTION 13A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/15/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	52
	127-18-4	tetrachloroethene	ND	4.7
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.9
407	108-88-3	toluene	7.5	6.8
	108-90-7	chlorobenzene	ND	6.8
	100-41-4	ethylbenzene	ND	8.2
	100-42-5	styrene	ND	3.4
	95-47-6	total xylenes	ND	5.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	1,2-dichloroethane-d4	95 %
404	Toluene-d8	99 %
512	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-053 VOA

SAMPLE # 14 FRACTIONS: A,B,C
Date & Time Collected 02/15/88 Category

VOA_S 02/16/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-056

Received: 02/16/88 Results by Sample

SAMPLE ID CAR 8-02-053 VOA FRACTION 14A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/15/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205614A

INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	7.1
	74-83-9	bromomethane	ND	7.1
	75-01-4	vinyl chloride	ND	7.1
	75-00-3	chloroethane	ND	7.1
	75-09-2	methylene chloride	ND	3.9
	67-64-1	acetone	ND	11
	75-15-0	carbon disulfide	ND	2.4
	75-69-4	trichlorofluoromethane	ND	7.1
	75-35-4	1,1-dichloroethene	ND	6.6
	75-34-3	1,1-dichloroethane	ND	3.9
	156-60-5	trans-1,2-dichloroethene	ND	2.3
	67-66-3	chloroform	ND	2.3
	107-06-2	1,2-dichloroethane	ND	3.9
	78-93-3	2-butanone	ND	35
	71-55-6	1,1,1-trichloroethane	ND	5.4
	56-23-5	carbon tetrachloride	ND	3.9
	108-05-4	vinyl acetate	ND	9.7
	75-27-4	bromodichloromethane	ND	3.1
	78-87-5	1,2-dichloropropane	ND	8.5
	10061-01-5	cis-1,3-dichloropropene	ND	7.1
	79-01-6	trichloroethene	ND	2.7
	124-48-1	dibromochloromethane	ND	4.4
	79-00-5	1,1,2-trichloroethane	ND	7.1
	71-43-2	benzene	ND	6.2
	10061-02-6	trans-1,3-dichloropropene	ND	7.1
	110-75-8	2-chloroethylvinyl ether	ND	7.1
	75-25-2	bromoform	ND	6.6
	591-78-6	2-hexanone	ND	51

SAMPLE ID CAR 8-02-053 VOA FRACTION 14A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/15/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	65
	127-18-4	tetrachloroethene	ND	5.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	9.7
	108-88-3	toluene	ND	8.5
	108-90-7	chlorobenzene	ND	8.5
	100-41-4	ethylbenzene	ND	10
	100-42-5	styrene	ND	4.2
	95-47-6	total xylenes	ND	6.5

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	95 %
406	Toluene-d8	99 %
514	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID CAR 8-02-055 VOA

SAMPLE # 15 FRACTIONS: A,B,C
Date & Time Collected 02/15/88 Category

VOA S 02/16/88
DATE COMPLETED

SAMPLE ID CAR 8-02-055 VOA FRACTION 15A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/15/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205615A
INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	32
	74-83-9	bromomethane	ND	32
	75-01-4	vinyl chloride	ND	32
	75-00-3	chloroethane	ND	32
	75-09-2	methylene chloride	ND	18
141	67-64-1	acetone	40 BJ	48
	75-15-0	carbon disulfide	ND	11
	75-69-4	trichlorofluoromethane	ND	32
	75-35-4	1,1-dichloroethene	ND	30
	75-34-3	1,1-dichloroethane	ND	18
	156-60-5	trans-1,2-dichloroethene	ND	10
	67-66-3	chloroform	ND	10
	107-06-2	1,2-dichloroethane	ND	18
	78-93-3	2-butanone	ND	160
	71-55-6	1,1,1-trichloroethane	ND	24
	56-23-5	carbon tetrachloride	ND	18
	108-05-4	vinyl acetate	ND	44
	75-27-4	bromodichloromethane	ND	14
	78-87-5	1,2-dichloropropane	ND	38
	10061-01-5	cis-1,3-dichloropropene	ND	32
	79-01-6	trichloroethene	ND	12
	124-48-1	dibromochloromethane	ND	20
	79-00-5	1,1,2-trichloroethane	ND	32
	71-43-2	benzene	ND	28
	10061-02-6	trans-1,3-dichloropropene	ND	32
	110-75-8	2-chloroethylvinyl ether	ND	32
	75-25-2	bromoform	ND	30
	591-78-6	2-hexanone	ND	230

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID CAR 8-02-055 VOA FRACTION 15A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/15/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	290
	127-18-4	tetrachloroethene	ND	26
	79-34-5	1,1,2,2-tetrachloroethane	ND	44
	108-88-3	toluene	ND	38
	108-90-7	chlorobenzene	ND	38
	100-41-4	ethylbenzene	ND	46
	100-42-5	styrene	ND	19
	95-47-6	total xylenes	ND	29

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	94 %
406	Toluene-d8	105 %
513	BFB	113 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID REAGENT BLANK VOA FRACTION 16A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0205616A
INSTRMT F4 INJECTD 02/22/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
136	75-09-2	methylene chloride	5.5	2.8
147	67-64-1	acetone	4.9 J	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
382	591-78-6	2-hexanone	2.5 J	36

KADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID REAGENT BLANK VOA FRACTION 16A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	94 %
406	Toluene-d8	98 %
513	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RAS Sacramento REPORT

Work Order # 88-02-056

Received: 02/16/88

Results by Sample

SAMPLE ID REAGENT BLANK VOA FRACTION 16B TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 4EB0227V000

INSTRMT F4 INJECTD 02/27/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	630
	74-83-9	bromomethane	ND	630
	75-01-4	vinyl chloride	ND	630
	75-00-3	chloroethane	ND	630
137	75-09-2	methylene chloride	210 J	350
150	67-64-1	acetone	2200	940
	75-15-0	carbon disulfide	ND	210
	75-69-4	trichlorofluoromethane	ND	630
	75-35-4	1,1-dichloroethene	ND	590
	75-34-3	1,1-dichloroethane	ND	350
	156-60-5	trans-1,2-dichloroethene	ND	200
	67-66-3	chloroform	ND	200
	107-06-2	1,2-dichloroethane	ND	350
231	78-93-3	2-butanone	5400	3100
	71-55-6	1,1,1-trichloroethane	ND	480
	56-23-5	carbon tetrachloride	ND	350
	108-05-4	vinyl acetate	ND	860
	75-27-4	bromodichloromethane	ND	280
	78-87-5	1,2-dichloropropane	ND	750
	10061-01-5	cis-1,3-dichloropropene	ND	630
	79-01-6	trichloroethene	ND	240
	124-48-1	dibromochloromethane	ND	390
	79-00-5	1,1,2-trichloroethane	ND	630
	71-43-2	benzene	ND	550
	10061-02-6	trans-1,3-dichloropropene	ND	630
	110-75-8	2-chloroethylvinyl ether	ND	630
	75-25-2	bromoform	ND	590
	591-78-6	2-hexanone	ND	4500

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID REAGENT BLANK VOA FRACTION 16B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	5800
	127-18-4	tetrachloroethene	ND	510
	79-34-5	1,1,2,2-tetrachloroethane	ND	860
	108-88-3	toluene	ND	750
	108-90-7	chlorobenzene	ND	750
	100-41-4	ethylbenzene	ND	900
	100-42-5	styrene	ND	380
	95-47-6	total xylenes	ND	580

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	97 %
407	Toluene-d8	101 %
515	BFB	95 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID REAGENT BLANK BNA SAMPLE # 17 FRACTIONS: A
Date & Time Collected not specified Category

EX BNA 02/17/88 GPC 02/17/88
DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056

SAMPLE ID REAGENT BLANK BNA FRACTION 17A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/17/88 FILE # 0205617A VERIFIED LAK
INSTRMT F2 INJECTD 02/19/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

SAMPLE ID REAGENT BLANK BNA FRACTION 17A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1562	117-81-7	bis(2-ethylhexyl)phthalate	270	170

RADIAN CORPORATION

Received: 02/16/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-056
Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 17A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
242	2-fluorophenol	81 %
397	d5-phenol	80 %
525	d5-nitrobenzene	84 %
804	2-fluorobiphenyl	81 %
1021	2,4,6-tribromophenol	72 %
1377	d14-terphenyl	153 QC %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C	I	DUP624
03C	I	DUP624
05C	I	DUP624
07C	I	DUP624
09C	I	DUP624
10C	I	DUP624
11C	I	DUP624
12C	I	DUP624
13C	I	DUP624
14C	I	DUP624
15C	I	DUP624

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-064

Received: 02/19/88

03/09/88 14:25:16

REPORT TO
Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN Larry French

CLIENT CARSWELL AFB SAMPLES 7
COMPANY Carswell AFB.
FACILITY Headquarters, SAC
Offutt, Nebraska 68113

WORK ID SITE 17
TAKEN 2/16-2/17/88
TRANS FED EX 5910117883
TYPE SOIL
P.O. # 227-005-04-40
INVOICE under separate cover

PREPARED BY
Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN

PHONE 916-362-5332

CERTIFIED BY

CONTACT LARRY FRENCH

SAMPLE IDENTIFICATION

01 CAR8-02-057 SOIL
02 CAR8-02-058 SOIL
03 CAR8-02-061 SOIL
04 CAR8-02-063 SOIL
05 CAR8-02-065 SOIL
06 CAR8-02-067 SOIL
07 REAGENT BLANK

TEST CODES and NAMES used on this report

CL8240 Purgeable Organics - Soil
VOA S Volatiles Screen Analysis

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results By Test

Work Order # S8-02-064

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
VOA_S date completed	02/19/88 DATE COMPLETED	02/19/88 DATE COMPLETED	02/19/88 DATE COMPLETED	02/19/88 DATE COMPLETED	02/19/88 DATE COMPLETED

TEST CODE default units	Sample 06 (entered units)
VOA_S date completed	02/19/88 DATE COMPLETED

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results By Test

Work Order # S8-02-064

SAMPLE Sample Id	Test: VOA S date completed
01 CAR8-02-057 SOI	02/19/88 DATE COMPLETED
02 CAR8-02-058 SOI	02/19/88 DATE COMPLETED
03 CAR8-02-061 SOI	02/19/88 DATE COMPLETED
04 CAR8-02-063 SOI	02/19/88 DATE COMPLETED
05 CAR8-02-065 SOI	02/19/88 DATE COMPLETED
06 CAR8-02-067 SOI	02/19/88 DATE COMPLETED

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-064

SAMPLE ID CAR8-02-057 SOIL

SAMPLE # 01 FRACTIONS: A,B,C

Date & Time Collected 01/16/88

Category

VOA S 02/19/88
DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-064

Received: 02/19/88

Results by Sample

SAMPLE ID CAR8-02-057 SOIL FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 01/16/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0206401A

INSTRMT F4 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	6.0
	74-83-9	bromomethane	ND	6.0
	75-01-4	vinyl chloride	ND	6.0
	75-00-3	chloroethane	ND	6.0
131	75-09-2	methylene chloride	9.4	3.3
143	67-64-1	acetone	5.5 BJ	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	6.0
	75-35-4	1,1-dichloroethene	ND	5.6
	75-34-3	1,1-dichloroethane	ND	3.3
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.2
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	6.0
	79-01-6	trichloroethene	ND	2.3
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	6.0
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	6.0
	110-75-8	2-chloroethylvinyl ether	ND	6.0
	75-25-2	bromoform	ND	5.6
	591-78-6	2-hexanone	ND	43

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # 88-02-064
Continued From Above

SAMPLE ID CAR8-02-057 SOIL

FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 01/16/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	55
	127-18-4	tetrachloroethene	ND	4.9
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.2
	108-88-3	toluene	ND	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.6
	100-42-5	styrene	ND	3.6
	95-47-6	total xylenes	ND	5.5

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	1,2-dichloroethane-d4	94 %
406	Toluene-d8	99 %
514	BFB	98 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-064

Received: 02/19/88

Results by Sample

SAMPLE ID CAR8-02-058 SOIL

SAMPLE # 02 FRACTIONS: A,B,C

Date & Time Collected 02/16/88 Category

VOA S 02/19/88
DATE COMPLETED

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-064

SAMPLE ID CAR8-02-058 SOIL FRACTION 02A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/16/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0206402A
INSTRMT F4 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	6.0
	74-83-9	bromomethane	ND	6.0
	75-01-4	vinyl chloride	ND	6.0
	75-00-3	chloroethane	ND	6.0
136	75-09-2	methylene chloride	2.0 J	3.4
146	67-64-1	acetone	9.2 B	9.0
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	6.0
	75-35-4	1,1-dichloroethene	ND	5.6
	75-34-3	1,1-dichloroethane	ND	3.4
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.4
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.6
	56-23-5	carbon tetrachloride	ND	3.4
	108-05-4	vinyl acetate	ND	8.3
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.2
	10061-01-5	cis-1,3-dichloropropene	ND	6.0
	79-01-6	trichloroethene	ND	2.3
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	6.0
	71-43-2	benzene	ND	5.3
	10061-02-6	trans-1,3-dichloropropene	ND	6.0
	110-75-8	2-chloroethylvinyl ether	ND	6.0
	75-25-2	bromoform	ND	5.6
	591-78-6	2-hexanone	ND	43

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-064
Continued From Above

SAMPLE ID CAR8-02-058 SOIL

FRACTION 02A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/16/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	55
	127-18-4	tetrachloroethene	ND	4.9
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.3
409	108-88-3	toluene	2.0 J	7.2
	108-90-7	chlorobenzene	ND	7.2
	100-41-4	ethylbenzene	ND	8.6
	100-42-5	styrene	ND	3.6
	95-47-6	total xylenes	ND	5.5

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	93 %
406	Toluene-d8	100 %
514	BFB	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-064

SAMPLE ID CAR8-02-061 SOIL

SAMPLE # 03 FRACTIONS: A,B,C

Date & Time Collected 02/16/88

Category

VOA S 02/19/88
DATE COMPLETED

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-064

SAMPLE ID CAR8-02-061 SOIL FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/16/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0206403A

INSTRMT F4 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	57
	74-83-9	bromomethane	ND	57
	75-01-4	vinyl chloride	ND	57
	75-00-3	chloroethane	ND	57
134	75-09-2	methylene chloride	12 J	32
145	67-64-1	acetone	91 B	86
	75-15-0	carbon disulfide	ND	20
	75-69-4	trichlorofluoromethane	ND	57
	75-35-4	1,1-dichloroethene	ND	54
	75-34-3	1,1-dichloroethane	ND	32
	156-60-5	trans-1,2-dichloroethene	ND	18
	67-66-3	chloroform	ND	18
	107-06-2	1,2-dichloroethane	ND	32
	78-93-3	2-butanone	ND	290
	71-55-6	1,1,1-trichloroethane	ND	44
	56-23-5	carbon tetrachloride	ND	32
	108-05-4	vinyl acetate	ND	79
	75-27-4	bromodichloromethane	ND	25
	78-87-5	1,2-dichloropropane	ND	69
	10061-01-5	cis-1,3-dichloropropene	ND	57
	79-01-6	trichloroethene	ND	22
	124-48-1	dibromochloromethane	ND	36
	79-00-5	1,1,2-trichloroethane	ND	57
308	71-43-2	benzene	22 J	51
	10061-02-6	trans-1,3-dichloropropene	ND	57
	110-75-8	2-chloroethylvinyl ether	ND	57
	75-25-2	bromoform	ND	54
	591-78-6	2-hexanone	ND	410

Received: 02/19/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-064
Continued From Above

SAMPLE ID CAR8-02-061 SOIL FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/16/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	530
	127-18-4	tetrachloroethene	ND	47
	79-34-5	1,1,2,2-tetrachloroethane	ND	79
408	108-88-3	toluene	130	69
	108-90-7	chlorobenzene	ND	69
	100-41-4	ethylbenzene	ND	83
	100-42-5	styrene	ND	34
	95-47-6	total xylenes	ND	53

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	92 %
405	Toluene-d8	108 %
513	BFB	107 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-064

SAMPLE ID CAR8-02-063 SOIL

SAMPLE # 04 FRACTIONS: A,B,C

Date & Time Collected 02/17/88

Category

VOA S 02/19/88
DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # SB-02-064

Received: 02/19/88

Results by Sample

SAMPLE ID CAR8-02-063 SOIL FRACTION 04A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/17/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0206404A

INSTRMT F4 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	6.7
	74-83-9	bromomethane	ND	6.7
	75-01-4	vinyl chloride	ND	6.7
	75-00-3	chloroethane	ND	6.7
137	75-09-2	methylene chloride	1.6 J	3.7
149	67-64-1	acetone	8.1 BJ	10.0
	75-15-0	carbon disulfide	ND	2.3
	75-69-4	trichlorofluoromethane	ND	6.7
	75-35-4	1,1-dichloroethene	ND	6.3
	75-34-3	1,1-dichloroethane	ND	3.7
	156-60-5	trans-1,2-dichloroethene	ND	2.1
	67-66-3	chloroform	ND	2.1
	107-06-2	1,2-dichloroethane	ND	3.7
	78-93-3	2-butanone	ND	33
	71-55-6	1,1,1-trichloroethane	ND	5.1
	56-23-5	carbon tetrachloride	ND	3.7
	108-05-4	vinyl acetate	ND	9.2
	75-27-4	bromodichloromethane	ND	2.9
	78-87-5	1,2-dichloropropane	ND	8.0
	10061-01-5	cis-1,3-dichloropropene	ND	6.7
	79-01-6	trichloroethene	ND	2.5
	124-48-1	dibromochloromethane	ND	4.1
	79-00-5	1,1,2-trichloroethane	ND	6.7
	71-43-2	benzene	ND	5.9
	10061-02-6	trans-1,3-dichloropropene	ND	6.7
	110-75-8	2-chloroethylvinyl ether	ND	6.7
	75-25-2	bromoform	ND	6.3
	591-78-6	2-hexanone	ND	48

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-064
Continued From Above

SAMPLE ID CAR8-02-063 SOIL

FRACTION 04A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/17/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	61
	127-18-4	tetrachloroethene	ND	5.5
	79-34-5	1,1,2,2-tetrachloroethane	ND	9.2
	108-88-3	toluene	ND	8.0
	108-90-7	chlorobenzene	ND	8.0
	100-41-4	ethylbenzene	ND	9.6
	100-42-5	styrene	ND	4.0
	95-47-6	total xylenes	ND	6.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	94 %
407	Toluene-d8	99 %
515	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-064

SAMPLE ID CAR8-02-065 SOIL

SAMPLE # 05 FRACTIONS: A,B,C

Date & Time Collected 02/17/88

Category

VOA S 02/19/88
DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-064

Received: 02/19/88

Results by Sample

SAMPLE ID CAR8-02-065 SOIL FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/17/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0206405A

INSTRMT F4 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	7.0
	74-83-9	bromomethane	ND	7.0
	75-01-4	vinyl chloride	ND	7.0
	75-00-3	chloroethane	ND	7.0
	75-09-2	methylene chloride	ND	3.9
145	67-64-1	acetone	10 B	10
	75-15-0	carbon disulfide	ND	2.4
	75-69-4	trichlorofluoromethane	ND	7.0
	75-35-4	1,1-dichloroethene	ND	6.5
	75-34-3	1,1-dichloroethane	ND	3.9
	156-60-5	trans-1,2-dichloroethene	ND	2.2
	67-66-3	chloroform	ND	2.2
	107-06-2	1,2-dichloroethane	ND	3.9
	78-93-3	2-butanone	ND	35
	71-55-6	1,1,1-trichloroethane	ND	5.3
	56-23-5	carbon tetrachloride	ND	3.9
	108-05-4	vinyl acetate	ND	9.6
	75-27-4	bromodichloromethane	ND	3.1
	78-87-5	1,2-dichloropropane	ND	8.3
	10061-01-5	cis-1,3-dichloropropene	ND	7.0
	79-01-6	trichloroethene	ND	2.6
	124-48-1	dibromochloromethane	ND	4.3
	79-00-5	1,1,2-trichloroethane	ND	7.0
308	71-43-2	benzene	1.6 J	6.1
	10061-02-6	trans-1,3-dichloropropene	ND	7.0
	110-75-8	2-chloroethylvinyl ether	ND	7.0
	75-25-2	bromoform	ND	6.5
	591-78-6	2-hexanone	ND	50

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-064
Continued From Above

SAMPLE ID CAR8-02-065 SOIL FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/17/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	64
	127-18-4	tetrachloroethene	ND	5.7
	79-34-5	1,1,2,2-tetrachloroethane	ND	9.6
408	108-88-3	toluene	1.6 J	8.3
	108-90-7	chlorobenzene	ND	8.3
	100-41-4	ethylbenzene	ND	10
	100-42-5	styrene	ND	4.2
	95-47-6	total xylenes	ND	6.4

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	92 %
405	Toluene-d8	100 %
513	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # 88-02-064

SAMPLE ID CAR8-02-067 SOIL

SAMPLE # 06 FRACTIONS: A,B,C
Date & Time Collected 02/17/88 Category

VOA S 02/19/88
DATE COMPLETED

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-064

SAMPLE ID CAR8-02-067 SOIL

FRACTION 06A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/17/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0206406A
INSTRMT F4 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.1
	74-83-9	bromomethane	ND	5.1
	75-01-4	vinyl chloride	ND	5.1
	75-00-3	chloroethane	ND	5.1
138	75-09-2	methylene chloride	1.7 J	2.8
149	67-64-1	acetone	10 B	7.6
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.1
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	7.0
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.1
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.1
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.1
	110-75-8	2-chloroethylvinyl ether	ND	5.1
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

Received: 02/19/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-064
Continued From Above

SAMPLE ID CAR8-02-067 SOIL FRACTION 06A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/17/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.0
410	108-88-3	toluene	4.6 J	6.1
	108-90-7	chlorobenzene	ND	6.1
	100-41-4	ethylbenzene	ND	7.3
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
230	1,2-dichloroethane-d4	93 %
407	Toluene-d8	100 %
515	BFB	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/19/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-064

SAMPLE ID REAGENT BLANK

FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 4EB0226V000
INSTRMT F4 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
	75-09-2	methylene chloride	ND	2.8
147	67-64-1	acetone	3.5 J	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

SAMPLE ID REAGENT BLANK FRACTION 07A TEST CODE CLB240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	94 %
406	Toluene-d8	100 %
514	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RAS Sacramento REPORT
NonReported Work

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C	I	DUP624
02C	I	DUP624
03C	I	DUP624
04C	I	DUP624
05C	I	DUP624
06C	I	DUP624

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-069

Received: 02/22/88

03/29/88 19:40:36

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 9
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: Stage II, Site 10
TAKEN: 02/19/88
TRANS: Federal 5910117894
TYPE: Soil-8080 & 8150
P.O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

Lucas Petersen
CERTIFIED BY

CONTACT: LARRY FRENCH

NEW SAMPLES FOR HERBICIDE ANALYSIS WILL BE SUPPLIED TO REPLACE CAR8-02-071,073,076,077 AND 079.

SAMPLE IDENTIFICATION

01	CAR8-02-069
02	CAR8-02-071
03	CAR8-02-073
04	CAR8-02-076
05	CAR8-02-077
06	CAR8-02-079
07	CAR8-02-069 MATRIX SPIKE
07	CAR8-02-069 MS DUP
08	REAGENT BLANK 8080CL
09	CAR8-02-071 MATRIX SPIKE
09	CAR8-02-071 MS DUP

TEST CODES and NAMES used on this report

8080	SW846-Pest/PCB's Soil
8150	Herbicides in soil
EXHERB	Extraction for Herbicides
EXPEST	Extraction for Pest/PCBs

RAS Sacramento REPORT

Work Order # S8-02-069

Received: 02/22/88

Results By Test

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
EXPEST date completed	02/22/88 DATE COMPLETED	02/22/88 DATE COMPLETED	02/22/88 DATE COMPLETED	02/22/88 DATE COMPLETED	02/22/88 DATE COMPLETED

TEST CODE default units	Sample 07 (entered units)	Sample 08 (entered units)	Sample 09 (entered units)
EXHERB Date completed			02/24/88 DATE COMPLETED
			02/24/88 DATE COMPLETED
EXPEST date completed	02/22/88 DATE COMPLETED	02/22/88 DATE COMPLETED	
	02/22/88 DATE COMPLETED		

Received: 02/22/88

Results By Test

SAMPLE Sample Id	Test: EXHERB Date completed	Test: EXPEST date completed
01 CAR8-02-069		02/22/88 DATE COMPLETED
02 CAR8-02-071		02/22/88 DATE COMPLETED
03 CAR8-02-073		02/22/88 DATE COMPLETED
04 CAR8-02-076		02/22/88 DATE COMPLETED
05 CAR8-02-077		02/22/88 DATE COMPLETED
07 CAR8-02-069 MAT		02/22/88 DATE COMPLETED
		02/22/88 DATE COMPLETED
08 REAGENT BLANK 8		02/22/88 DATE COMPLETED
09 CAR8-02-071 MAT	02/24/88 DATE COMPLETED	
	02/24/88 DATE COMPLETED	

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-069

Received: 02/22/88

Results by Sample

SAMPLE ID CAR8-02-069

SAMPLE # 01 FRACTIONS: A, B

Date & Time Collected 02/19/88

Category

EXPEST 02/22/88
DATE COMPLETED

Received: 02/22/88

Results by Sample

SAMPLE ID CAR8-02-069 FRACTION 01A TEST CODE 8080 NAME SW846-Pest/PCB's Soil

Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/22/88 FILE # 118022430 VERIFIED JD

INSTRMT 1 INJECTD 02/24/88 FACTOR 110 UNITS UG/KG

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	5.7	570
58-89-9	gamma-BHC (lindane)	ND	5.7	570
319-85-7	beta-BHC	ND	5.7	570
76-44-8	Heptachlor	ND	1.1	110
319-86-8	delta-BHC	ND	1.1	110
309-00-02	Aldrin	ND	1.1	110
1024-57-3	Heptachlor Epoxide	ND	1.1	110
959-98-8	Endosulfan I	ND	1.1	110
72-55-9	4,4'-DDE	ND	1.1	110
60-57-1	Dieldrin	ND	1.1	110
72-20-8	Endrin	ND	1.1	110
72-54-8	4,4'-DDD	ND	1.1	110
33213-65-9	Endosulfan II	ND	3.3	110
50-29-3	4,4'-DDT	ND	2.2	110
7421-93-4	Endrin Aldehyde	ND	2.2	110
1031-07-8	Endosulfan Sulphate	ND	5.5	110
53494-70-5	Endrin Ketone	ND	5.5	110
72-43-5	Methoxychlor	ND	5.5	110
57-74-9	Chlordane	ND	5.5	110
8001-35-2	Toxaphene	ND	55	110
12674-11-2	PCB-1016	ND	57	570
11104-28-2	PCB-1221	ND	110	570
11141-16-5	PCB-1232	ND	110	570
53469-21-9	PCB-1242	ND	57	570
12672-29-6	PCB-1248	ND	57	570
11097-69-1	PCB-1254	ND	22	110
11096-82-5	PCB-1260	ND	22	110

SURROGATE 1770-80-5 Dibutylchlorendate 96 % Recovery

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-069
Continued From Above

SAMPLE ID CAR8-02-069

FRACTION 01A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/19/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/22/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069

SAMPLE ID CAR8-02-071

SAMPLE # 02 FRACTIONS: A,B

Date & Time Collected 02/19/88 Category

EXPEST 02/22/88
DATE COMPLETED

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-069

SAMPLE ID CAR8-02-071 FRACTION 02A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/22/88 FILE # 118022437 VERIFIED JD
INSTRMT 1 INJECTD 02/24/88 FACTOR 100 UNITS UG/KG

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	5.1	510
58-89-9	gamma-BHC (lindane)	ND	5.1	510
319-85-7	beta-BHC	ND	5.1	510
76-44-8	Heptachlor	ND	5.1	510
319-86-8	delta-BHC	ND	1.0	100
309-00-02	Aldrin	ND	1.0	100
1024-57-3	Heptachlor Epoxide	ND	1.0	100
959-98-8	Endosulfan I	ND	1.0	100
72-55-9	4,4'-DDE	ND	1.0	100
60-57-1	Dieldrin	ND	1.0	100
72-20-8	Endrin	ND	1.0	100
72-54-8	4,4'-DDD	ND	1.0	100
33213-65-9	Endosulfan II	ND	3.0	100
50-29-3	4,4'-DDT	ND	2.0	100
7421-93-4	Endrin Aldehyde	ND	2.0	100
1031-07-8	Endosulfan Sulphate	ND	5.0	100
53494-70-5	Endrin Ketone	ND	5.0	100
72-43-5	Methoxychlor	ND	5.0	100
57-74-9	Chlordane	ND	5.0	100
8001-35-2	Toxaphene	ND	50	100
12674-11-2	PCB-1016	ND	51	510
11104-28-2	PCB-1221	ND	100	510
11141-16-5	PCB-1232	ND	100	510
53469-21-9	PCB-1242	ND	51	510
12672-29-6	PCB-1248	ND	51	510
11097-69-1	PCB-1254	ND	20	100
11096-82-5	PCB-1260	ND	20	100

SURROGATE 1770-80-5 Dibutylchlorendate 107 % Recovery

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069
Continued From Above

SAMPLE ID CAR8-02-071 FRACTION 02A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/19/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069

SAMPLE ID CAR8-02-073

SAMPLE # 03 FRACTIONS: A,B

Date & Time Collected 02/19/88 Category

EXPEST 02/22/88
DATE COMPLETED

Received: 02/22/88 Results by Sample

SAMPLE ID CARB-02-073 FRACTION 03A TEST CODE 8080 NAME SW846-Pest/PCB's Soil

Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/22/88 FILE # 118022439 VERIFIED JD

INSTRMT 1 INJECTD 02/24/88 FACTOR 120 UNITS UG/KG

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	5.8	580
58-89-9	gamma-BHC (lindane)	ND	5.8	580
319-85-7	beta-BHC	ND	5.8	580
76-44-8	Heptachlor	ND	5.8	580
319-86-8	delta-BHC	ND	1.2	120
309-00-02	Aldrin	ND	1.2	120
1024-57-3	Heptachlor Epoxide	ND	1.2	120
959-98-8	Endosulfan I	ND	1.2	120
72-55-9	4,4'-DDE	ND	1.2	120
60-57-1	Dieldrin	ND	1.2	120
72-20-8	Endrin	ND	1.2	120
72-54-8	4,4'-DDD	ND	1.2	120
33213-65-9	Endosulfan II	ND	3.6	120
50-29-3	4,4'-DDT	ND	2.4	120
7421-93-4	Endrin Aldehyde	ND	2.4	120
1031-07-8	Endosulfan Sulphate	ND	6.0	120
53494-70-5	Endrin Ketone	ND	6.0	120
72-43-5	Methoxychlor	ND	6.0	120
57-74-9	Chlordane	ND	6.0	120
8001-35-2	Toxaphene	ND	60	120
12674-11-2	PCB-1016	ND	58	580
11104-28-2	PCB-1221	ND	120	580
11141-16-5	PCB-1232	ND	120	580
53469-21-9	PCB-1242	ND	58	580
12672-29-6	PCB-1248	ND	58	580
11097-69-1	PCB-1254	ND	24	120
11096-82-5	PCB-1260	ND	24	120

SURROGATE 1770-80-5 Dibutylchlorendate 103 % Recovery

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069
Continued From Above

SAMPLE ID CAR8-02-073

FRACTION 03A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/19/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/22/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069

SAMPLE ID CAR8-02-076

SAMPLE # 04 FRACTIONS: A,B
Date & Time Collected 02/19/88 Category

EXPEST 02/22/88
DATE COMPLETED

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-069

SAMPLE ID CAR8-02-076 FRACTION 04A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/22/88 FILE # 118022444 VERIFIED JD
INSTRMT 1 INJECTD 02/24/88 FACTOR 100 UNITS UG/KG

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	5.1	510
58-89-9	gamma-BHC (lindane)	ND	5.1	510
319-85-7	beta-BHC	ND	5.1	510
76-44-8	Heptachlor	ND	5.1	510
319-86-8	delta-BHC	ND	1.0	100
309-00-02	Aldrin	ND	1.0	100
1024-57-3	Heptachlor Epoxide	ND	1.0	100
959-98-8	Endosulfan I	ND	1.0	100
72-55-9	4,4'-DDE	ND	1.0	100
60-57-1	Dieldrin	ND	1.0	100
72-20-8	Endrin	ND	1.0	100
72-54-8	4,4'-DDD	ND	1.0	100
33213-65-9	Endosulfan II	ND	3.0	100
50-29-3	4,4'-DDT	ND	2.0	100
7421-93-4	Endrin Aldehyde	ND	2.0	100
1031-07-8	Endosulfan Sulphate	ND	5.0	100
53494-70-5	Endrin Ketone	ND	5.0	100
72-43-5	Methoxychlor	ND	5.0	100
57-74-9	Chlordane	ND	5.0	100
8001-35-2	Toxaphene	ND	50	100
12674-11-2	PCB-1016	ND	51	510
11104-28-2	PCB-1221	ND	100	510
11141-16-5	PCB-1232	ND	100	510
53469-21-9	PCB-1242	ND	51	510
12672-29-6	PCB-1248	ND	51	510
11097-69-1	PCB-1254	ND	20	100
11096-82-5	PCB-1260	ND	20	100

SURROGATE 1770-80-5 Dibutylchlorendate 108 % Recovery

SAMPLE ID CAR8-02-076 FRACTION 04A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/19/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/22/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-069

SAMPLE ID CAR8-02-077

SAMPLE # 05 FRACTIONS: A,B

Date & Time Collected 02/19/88

Category

EXPEST 02/22/88
DATE COMPLETED

SAMPLE ID CAR8-02-077 FRACTION 05A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/22/88 FILE # 118022446 VERIFIED JD
INSTRMT 1 INJECTD 02/24/88 FACTOR 100 UNITS UG/KG

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	5.0	500
58-89-9	gamma-BHC (lindane)	ND	5.0	500
319-85-7	beta-BHC	ND	5.0	500
76-44-8	Heptachlor	ND	5.0	500
319-86-8	delta-BHC	ND	1.0	100
309-00-02	Aldrin	ND	1.0	100
1024-57-3	Heptachlor Epoxide	ND	1.0	100
959-98-8	Endosulfan I	ND	1.0	100
72-55-9	4,4'-DDE	ND	1.0	100
60-57-1	Dieldrin	ND	1.0	100
72-20-8	Endrin	ND	1.0	100
72-54-8	4,4'-DDD	ND	1.0	100
33213-65-9	Endosulfan II	ND	3.0	100
50-29-3	4,4'-DDT	ND	2.0	100
7421-93-4	Endrin Aldehyde	ND	2.0	100
1031-07-8	Endosulfan Sulphate	ND	5.0	100
53494-70-5	Endrin Ketone	ND	5.0	100
72-43-5	Methoxychlor	ND	5.0	100
57-74-9	Chlordane	ND	5.0	100
8001-35-2	Toxaphene	ND	50	100
12674-11-2	PCB-1016	ND	50	500
11104-28-2	PCB-1221	ND	100	500
11141-16-5	PCB-1232	ND	100	500
53469-21-9	PCB-1242	ND	50	500
12672-29-6	PCB-1248	ND	50	500
11097-69-1	PCB-1254	ND	20	100
11096-82-5	PCB-1260	ND	20	100

SURROGATE 1770-80-5 Dibutylchlorendate 93 % Recovery

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069
Continued From Above

SAMPLE ID CAR8-02-077

FRACTION 05A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/19/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

SAMPLE ID CAR8-02-069 MATRIX SPIKE SAMPLE # 07 FRACTIONS: A
Date & Time Collected not specified Category

EXPEST 02/22/88
DATE COMPLETED

SAMPLE ID CAR8-02-069 MATRIX SPIKE FRACTION 07A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/22/88 FILE # 118022433 VERIFIED JD
INSTRMT 1 INJECTD 02/24/88 FACTOR 570 UNITS %

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	NS	5.7	570
58-89-9	gamma-BHC (lindane)	87	5.7	570
319-85-7	beta-BHC	NS	5.7	570
76-44-8	Heptachlor	87	5.7	570
319-86-8	delta-BHC	NS	5.7	570
309-00-02	Aldrin	88	5.7	570
1024-57-3	Heptachlor Epoxide	NS	5.7	570
959-98-8	Endosulfan I	NS	5.7	570
72-55-9	4,4'-DDE	NS	5.7	570
60-57-1	Dieldrin	87	5.7	570
72-20-8	Endrin	101	5.7	570
72-54-8	4,4'-DDD	NS	5.7	570
33213-65-9	Endosulfan II	NS	17	570
50-29-3	4,4'-DDT	76	11	570
7421-93-4	Endrin Aldehyde	NS	11	570
1031-07-8	Endosulfan Sulphate	NS	29	570
53494-70-5	Endrin Ketone	NS	29	570
72-43-5	Methoxychlor	NS	29	570
57-74-9	Chlordane	NS	29	570
8001-35-2	Toxaphene	NS	290	570
12674-11-2	PCB-1016	NS	57	570
11104-28-2	PCB-1221	NS	110	570
11141-16-5	PCB-1232	NS	110	570
53469-21-9	PCB-1242	NS	57	570
12672-29-6	PCB-1248	NS	57	570
11097-69-1	PCB-1254	NS	110	570
11096-82-5	PCB-1260	NS	110	570

SURROGATE 1770-80-5 Dibutylchlorendate 103 % Recovery

SAMPLE ID CAR8-02-069 MATRIX SPIKE FRACTION 07A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069

SAMPLE ID CAR8-02-069 MS DUP

SAMPLE # 07 FRACTIONS: B

Date & Time Collected not specified Category

EXPEST 02/22/88
DATE COMPLETED

Received: 02/22/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-069

SAMPLE ID CAR8-02-069 MS DUP FRACTION 07B TEST CODE 8080 NAME SW846-Pest/PCB's Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/22/88 FILE # 118022434 VERIFIED JD

INSTRMT 1 INJECTD 02/24/88 FACTOR 580 UNITS %

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	NS	5.8	580
58-89-9	gamma-BHC (lindane)	92	5.8	580
319-85-7	beta-BHC	NS	5.8	580
76-44-8	Heptachlor	91	5.8	580
319-86-8	delta-BHC	NS	5.8	580
309-00-02	Aldrin	91	5.8	580
1024-57-3	Heptachlor Epoxide	NS	5.8	580
959-98-8	Endosulfan I	NS	5.8	580
72-55-9	4,4'-DDE	NS	5.8	580
60-57-1	Dieldrin	93	5.8	580
72-20-8	Endrin	105	5.8	580
72-54-8	4,4'-DDD	NS	5.8	580
33213-65-9	Endosulfan II	NS	17	580
50-29-3	4,4'-DDT	93	12	580
7421-93-4	Endrin Aldehyde	NS	12	580
1031-07-8	Endosulfan Sulphate	NS	29	580
53494-70-5	Endrin Ketone	NS	29	580
72-43-5	Methoxychlor	NS	29	580
57-74-9	Chlordane	NS	29	580
8001-35-2	Toxaphene	NS	290	580
12674-11-2	PCB-1016	NS	58	580
11104-28-2	PCB-1221	NS	120	580
11141-16-5	PCB-1232	NS	120	580
53469-21-9	PCB-1242	NS	58	580
12672-29-6	PCB-1248	NS	58	580
11097-69-1	PCB-1254	NS	120	580
11096-82-5	PCB-1260	NS	120	580

SURROGATE 1770-80-5 Dibutylchlorendate 127 % Recovery

SAMPLE ID CAR8-02-069 MS DUP FRACTION 07B TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069

SAMPLE ID REAGENT BLANK 8080CL

SAMPLE # 08 FRACTIONS: A

Date & Time Collected not specified Category

EXPEST 02/22/88
DATE COMPLETED

SAMPLE ID REAGENT BLANK 8080CL FRACTION 08A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/22/88 FILE # 118022428 VERIFIED JD
INSTRMT 1 INJECTD 02/24/88 FACTOR 100 UNITS UG/KG

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	5.0	500
58-89-9	gamma-BHC (lindane)	ND	5.0	500
319-85-7	beta-BHC	ND	5.0	500
76-44-8	Heptachlor	ND	5.0	500
319-86-8	delta-BHC	ND	1.0	100
309-00-02	Aldrin	ND	1.0	100
1024-57-3	Heptachlor Epoxide	ND	1.0	100
959-98-8	Endosulfan I	ND	1.0	100
72-55-9	4,4'-DDE	ND	1.0	100
60-57-1	Dieldrin	ND	1.0	100
72-20-8	Endrin	ND	1.0	100
72-54-8	4,4'-DDD	ND	1.0	100
33213-65-9	Endosulfan II	ND	3.0	100
50-29-3	4,4'-DDT	ND	2.0	100
7421-93-4	Endrin Aldehyde	ND	2.0	100
1031-07-8	Endosulfan Sulphate	ND	5.0	100
53494-70-5	Endrin Ketone	ND	5.0	100
72-43-5	Methoxychlor	ND	5.0	100
57-74-9	Chlordane	ND	5.0	100
8001-35-2	Toxaphene	ND	50	100
12674-11-2	PCB-1016	ND	50	500
11104-28-2	PCB-1221	ND	100	500
11141-16-5	PCB-1232	ND	100	500
53469-21-9	PCB-1242	ND	50	500
12672-29-6	PCB-1248	ND	50	500
11097-69-1	PCB-1254	ND	20	100
11096-82-5	PCB-1260	ND	20	100

SURROGATE 1770-80-5 Dibutylchlorendate 102 % Recovery

SAMPLE ID REAGENT BLANK 8080CL FRACTION 08A TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

SAMPLE ID CAR8-02-071 MATRIX SPIKE SAMPLE # 09 FRACTIONS: A
Date & Time Collected not specified Category

EXHERB 02/24/88
DATE COMPLETED

SAMPLE ID CAR8-02-071 MATRIX SPIKE FRACTION 09A TEST CODE 8150 NAME Herbicides in soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
HERBICIDES

ANALYST AL
INSTRMT 7

EXTRCTD 02/24/88
INJECTD 03/16/88

FILE # 71803164 VERIFIED JD
FACTOR 160 UNITS %

CAS #	COMPOUND	RESULT	DET. LIMIT	FACTOR
94-75-7	2,4-D	44	80	160
93-72-1	2,4,5-TP (Silvex)	24 QC	16	160
93-76-5	2,4,5-T	0 QC	16	160

SURROGATE

2,4-Dichlorophenyl Acetic Acid 25 QC % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-069

SAMPLE ID CAR8-02-071 MS DUP

SAMPLE # 09 FRACTIONS: B

Date & Time Collected not specified Category

EXHERB 02/24/88
DATE COMPLETED

SAMPLE ID CAR8-02-071 MS DUP

FRACTION 09B TEST CODE 8150 NAME Herbicides in soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
HERBICIDES

ANALYST AL
INSTRMT 7

EXTRCTD 02/24/88
INJECTD 03/16/88

FILE # 71803165 VERIFIED JD
FACTOR 200 UNITS %

CAS #	COMPOUND	RESULT	DET. LIMIT	FACTOR
94-75-7	2,4-D	74	100	200
93-72-1	2,4,5-TP (Silvex)	77	20	200
93-76-5	2,4,5-T	44	20	200

SURROGATE

2,4-Dichlorophenyl Acetic Acid 33 QC % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01B	I	DUPQC			
02B	I	DUPQC			
03B	I	DUPQC			
04B	I	DUPQC			
05B	I	DUPQC			
06A	I	DUPQC	06B	I	DUPQC

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT

03/09/88 08:53:14

Work Order # S8-02-070

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 7
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: Stage II Site 10
TAKEN: 02/19/88
TRANS: Federal 5910117894
TYPE: Soil-8240 & 8270
P.O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

CERTIFIED BY

CONTACT: LARRY FRENCH

GC CHECK STANDARD RUN ON 2/27/88 DUE TO MATRIX EFFECT FOR TOLUENE IN MATRIX SPIKES.
GC = OUTSIDE CONTROL LIMITS.

SAMPLE IDENTIFICATION

01 CARS-02-083 VOA
02 CARS-02-084 BNA
03 CARS-02-080 VOA
04 CARS-02-081 BNA
05 CARS-02-083 MATRIX SPIKE
05 CARS-02-083 MS DUP
06 REAGENT BLANK VOA
07 REAGENT BLANK BNA

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT

Results By Test

Work Order # S8-02-070

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 07 (entered units)
BNA_S date completed		02/22/88 DATE COMPLETED		02/22/88 DATE COMPLETED	
DRY_WT % moisture		14 % MOISTURE		3 % MOISTURE	
EX_BNA date completed		02/23/88 DATE COMPLETED		02/23/88 DATE COMPLETED	02/23/88 DATE COMPLETED
GPC date completed		02/23/88 DATE COMPLETED		02/23/88 DATE COMPLETED	02/23/88 DATE COMPLETED
VOA_S date completed	02/22/88 DATE COMPLETED		02/22/88 DATE COMPLETED		

KADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-070

Received: 02/22/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR8-02-083 VOA					02/22/88 DATE COMPLETED
02 CAR8-02-084 BNA	02/22/88 DATE COMPLETED	14 % MOISTURE	02/23/88 DATE COMPLETED	02/23/88 DATE COMPLETED	
03 CAR8-02-080 VOA					02/22/88 DATE COMPLETED
04 CAR8-02-081 BNA	02/22/88 DATE COMPLETED	3 % MOISTURE	02/23/88 DATE COMPLETED	02/23/88 DATE COMPLETED	
07 REAGENT BLANK B			02/23/88 DATE COMPLETED	02/23/88 DATE COMPLETED	

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070

SAMPLE ID CARB-02-083 VOA

SAMPLE # 01 FRACTIONS: A,B,C
Date & Time Collected 02/19/88 Category

VOA S 02/22/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-070

Received: 02/22/88 Results by Sample

SAMPLE ID CARB-02-083 VOA FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0207001A

INSTRMT F4 INJECTD 02/27/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.9
	74-83-9	bromomethane	ND	5.9
	75-01-4	vinyl chloride	ND	5.9
	75-00-3	chloroethane	ND	5.9
	75-09-2	methylene chloride	ND	3.3
149	67-64-1	acetone	14 B	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.9
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.3
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.1
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.9
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	5.9
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	5.9
	110-75-8	2-chloroethylvinyl ether	ND	5.9
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID CAR8-02-083 VOA FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/19/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	54
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.1
410	108-88-3	toluene	29	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.5
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.4

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	97 %
407	Toluene-d8	107 %
515	BFB	104 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070

SAMPLE ID CAR8-02-084 BNA

SAMPLE # 02 FRACTIONS: A
Date & Time Collected 02/19/88 Category

BNA_S 02/22/88 (DATE COMPLETED) DRY_WT 14 (% MOISTURE) EX_BNA 02/23/88 (DATE COMPLETED) GPC 02/23/88 (DATE COMPLETED)

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070

SAMPLE ID CARB-02-084 BNA

FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/23/88 FILE # 0207002A VERIFIED LAK
INSTRMT F2 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	770
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	770
	111-44-4	bis(2-chloroethyl) ether	ND	440
	95-57-8	2-chlorophenol	ND	250
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	340
	100-51-6	benzyl alcohol	ND	3900
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	770
	108-60-1	bis(2-chloroisopropyl)ether	ND	440
	106-44-5	4-methylphenol	ND	770
	621-64-7	n-nitroso-di-n-propylamine	ND	930
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	280
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	3900
	111-91-1	bis(2-chloroethoxy)methane	ND	410
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	770
	87-68-3	hexachlorobutadiene	ND	69
	59-50-7	4-chloro-3-methylphenol	ND	230
	91-57-6	2-methylnaphthalene	ND	770

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID CAR8-02-084 BNA FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/19/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	460
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	770
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	3900
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	270
	99-09-2	3-nitroaniline	ND	3900
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3200
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	770
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	440
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	320
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	3900
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	280
	85-01-8	phenanthrene	ND	420
	120-12-7	anthracene	ND	150
1221	84-74-2	di-n-butylphthalate	96 J	190
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3400
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	600
1547	117-81-7	bis(2-ethylhexyl)phthalate	150 BJ	190

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID CAR8-02-084 BNA

FRACTION 02A TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/19/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
	117-84-0	di-n-octyl phthalate	ND	190
	205-99-2	benzo(b)fluoranthene	ND	370
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	290
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
245	2-fluorophenol	83 %
395	d5-phenol	81 %
519	d5-nitrobenzene	81 %
793	2-fluorobiphenyl	73 %
1009	2,4,6-tribromophenol	77 %
1362	d14-terphenyl	86 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070

SAMPLE ID CAR8-02-080 VOA

SAMPLE # 03 FRACTIONS: A,B,C
Date & Time Collected 02/19/88 Category

VOA S 02/22/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070

SAMPLE ID CAR8-02-080 VOA

FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0207003A
INSTRMT F4 INJECTD 02/27/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.3
	74-83-9	bromomethane	ND	5.3
	75-01-4	vinyl chloride	ND	5.3
	75-00-3	chloroethane	ND	5.3
	75-09-2	methylene chloride	ND	3.0
145	67-64-1	acetone	11 B	8.0
	75-15-0	carbon disulfide	ND	1.8
	75-69-4	trichlorofluoromethane	ND	5.3
	75-35-4	1,1-dichloroethene	ND	5.0
	75-34-3	1,1-dichloroethane	ND	3.0
	156-60-5	trans-1,2-dichloroethene	ND	1.7
	67-66-3	chloroform	ND	1.7
	107-06-2	1,2-dichloroethane	ND	3.0
	78-93-3	2-butanone	ND	27
	71-55-6	1,1,1-trichloroethane	ND	4.0
	56-23-5	carbon tetrachloride	ND	3.0
	108-05-4	vinyl acetate	ND	7.3
	75-27-4	bromodichloromethane	ND	2.3
	78-87-5	1,2-dichloropropane	ND	6.4
	10061-01-5	cis-1,3-dichloropropene	ND	5.3
	79-01-6	trichloroethene	ND	2.0
	124-48-1	dibromochloromethane	ND	3.3
	79-00-5	1,1,2-trichloroethane	ND	5.3
	71-43-2	benzene	ND	4.7
	10061-02-6	trans-1,3-dichloropropene	ND	5.3
	110-75-8	2-chloroethylvinyl ether	ND	5.3
	75-25-2	bromoform	ND	5.0
	591-78-6	2-hexanone	ND	38

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID CAR8-02-080 VOA FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/19/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	49
	127-18-4	tetrachloroethene	ND	4.3
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.3
	108-88-3	toluene	ND	6.4
	108-90-7	chlorobenzene	ND	6.4
	100-41-4	ethylbenzene	ND	7.6
	100-42-5	styrene	ND	3.2
	95-47-6	total xylenes	ND	4.9

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	96 %
406	Toluene-d8	100 %
514	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR8-02-081 BNA SAMPLE # 04 FRACTIONS: A
Date & Time Collected 02/19/88 Category

BNA_S 02/22/88 DRY_WT 3 EX_BNA 02/23/88 GPC 02/23/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070

SAMPLE ID CAR8-02-081 BNA FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/19/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/23/88 FILE # 0207004A VERIFIED LAK
INSTRMT F2 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	680
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	680
	111-44-4	bis(2-chloroethyl) ether	ND	390
	95-57-8	2-chlorophenol	ND	230
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	300
	100-51-6	benzyl alcohol	ND	3400
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	680
	108-60-1	bis(2-chloroisopropyl)ether	ND	390
	106-44-5	4-methylphenol	ND	680
	621-64-7	n-nitroso-di-n-propylamine	ND	820
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	250
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3400
	111-91-1	bis(2-chloroethoxy)methane	ND	360
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	680
	87-68-3	hexachlorobutadiene	ND	62
	59-50-7	4-chloro-3-methylphenol	ND	210
	91-57-6	2-methylnaphthalene	ND	680

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID CAR8-02-081 BNA FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/19/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	410
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	680
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3400
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	240
	99-09-2	3-nitroaniline	ND	3400
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2900
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	680
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	390
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	290
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3400
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	250
	85-01-8	phenanthrene	ND	370
	120-12-7	anthracene	ND	130
1220	84-74-2	di-n-butylphthalate	210	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	3000
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	530
	117-81-7	bis(2-ethylhexyl)phthalate	ND	170

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID CARB-02-081 BNA FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/19/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	330
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	280

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
255	2-fluorophenol	77 %
399	d5-phenol	76 %
520	d5-nitrobenzene	77 %
792	2-fluorobiphenyl	71 %
1007	2,4,6-tribromophenol	73 %
1361	d14-terphenyl	74 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070

SAMPLE ID CAR8-02-083 MATRIX SPIKE FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0207005A
INSTRMT F4 INJECTD 02/27/88 UNITS% recove

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	NA	10
	74-83-9	bromomethane	NA	10
	75-01-4	vinyl chloride	NA	10
	75-00-3	chloroethane	NA	10
	75-09-2	methylene chloride	NA	5.6
	67-64-1	acetone	NA	15
	75-15-0	carbon disulfide	NA	3.4
	75-69-4	trichlorofluoromethane	NA	10
181	75-35-4	1,1-dichloroethene	100	9.4
	75-34-3	1,1-dichloroethane	NA	5.6
	156-60-5	trans-1,2-dichloroethene	NA	3.2
	67-66-3	chloroform	NA	3.2
	107-06-2	1,2-dichloroethane	NA	5.6
	78-93-3	2-butanone	NA	50
	71-55-6	1,1,1-trichloroethane	NA	7.6
	56-23-5	carbon tetrachloride	NA	5.6
	108-05-4	vinyl acetate	NA	14
	75-27-4	bromodichloromethane	NA	4.4
	78-87-5	1,2-dichloropropane	NA	12
	10061-01-5	cis-1,3-dichloropropene	NA	10
299	79-01-6	trichloroethene	89	3.8
	124-48-1	dibromochloromethane	NA	6.2
	79-00-5	1,1,2-trichloroethane	NA	10
309	71-43-2	benzene	88	8.8
	10061-02-6	trans-1,3-dichloropropene	NA	10
	110-75-8	2-chloroethylvinyl ether	NA	10
	75-25-2	bromoform	NA	9.4
	591-78-6	2-hexanone	NA	72

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-070
Continued From Above

SAMPLE ID CARB-02-083 MATRIX SPIKE FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	NA	92
	127-18-4	tetrachloroethene	NA	8.2
	79-34-5	1,1,2,2-tetrachloroethane	NA	14
409	108-88-3	toluene	50 QC	12
427	108-90-7	chlorobenzene	90	12
	100-41-4	ethylbenzene	NA	14
	100-42-5	styrene	NA	6.0
	95-47-6	total xylenes	NA	9.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	96 %
406	Toluene-d8	99 %
515	BFB	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # 88-02-070

Received: 02/22/88 Results by Sample

SAMPLE ID CAR8-02-083 MS DUP FRACTION 05B TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0207005B

INSTRMT F4 INJECTD 02/27/88 UNITS% recove

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	NA	10
	74-83-9	bromomethane	NA	10
	75-01-4	vinyl chloride	NA	10
	75-00-3	chloroethane	NA	10
	75-09-2	methylene chloride	NA	5.6
	67-64-1	acetone	NA	15
	75-15-0	carbon disulfide	NA	3.4
	75-69-4	trichlorofluoromethane	NA	10
180	75-35-4	1,1-dichloroethene	110	9.4
	75-34-3	1,1-dichloroethane	NA	5.6
	156-60-5	trans-1,2-dichloroethene	NA	3.2
	67-66-3	chloroform	NA	3.2
	107-06-2	1,2-dichloroethane	NA	5.6
	78-93-3	2-butanone	NA	50
	71-55-6	1,1,1-trichloroethane	NA	7.6
	56-23-5	carbon tetrachloride	NA	5.6
	108-05-4	vinyl acetate	NA	14
	75-27-4	bromodichloromethane	NA	4.4
	78-87-5	1,2-dichloropropane	NA	12
	10061-01-5	cis-1,3-dichloropropene	NA	10
298	79-01-6	trichloroethene	94	3.8
	124-48-1	dibromochloromethane	NA	6.2
	79-00-5	1,1,2-trichloroethane	NA	10
308	71-43-2	benzene	93	8.8
	10061-02-6	trans-1,3-dichloropropene	NA	10
	110-75-8	2-chloroethylvinyl ether	NA	10
	75-25-2	bromoform	NA	9.4
	591-78-6	2-hexanone	NA	72

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID CAR8-02-083 MS DUP FRACTION 05B TEST CODE CLB240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	NA	92
	127-18-4	tetrachloroethene	NA	8.2
	79-34-5	1,1,2,2-tetrachloroethane	NA	14
408	108-88-3	toluene	56 GC	12
426	108-90-7	chlorobenzene	95	12
	100-41-4	ethylbenzene	NA	14
	100-42-5	styrene	NA	6.0
	95-47-6	total xylenes	NA	9.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	96 %
405	Toluene-d8	99 %
513	BFB	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID REAGENT BLANK VOA FRACTION 06A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0207006A
INSTRMT F4 INJECTD 02/27/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
134	75-09-2	methylene chloride	2.5 J	2.8
146	67-64-1	acetone	7.4 J	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID REAGENT BLANK VOA FRACTION 06A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	94 %
406	Toluene-d8	102 %
513	BFB	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 07 FRACTIONS: A
Date & Time Collected not specified Category

EX BNA 02/23/88 GPC 02/23/88
DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # SB-02-070

Received: 02/22/88 Results by Sample

SAMPLE ID REAGENT BLANK BNA FRACTION 07A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/23/88 FILE # 0207007A VERIFIED LAK

INSTRMT F2 INJECTD 02/26/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-070
Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 07A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1544	117-81-7	bis(2-ethylhexyl)phthalate	170 J	170

RADIAN CORPORATION

Received: 02/22/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-070
Continued From Above

SAMPLE ID REAGENT BLANK BNA

FRACTION 07A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
1635	117-84-0	di-n-octyl phthalate	320	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
276	2-fluorophenol	44 %
402	d5-phenol	83 %
521	d5-nitrobenzene	85 %
791	2-fluorobiphenyl	76 %
1006	2,4,6-tribromophenol	74 %
1359	d14-terphenyl	89 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/22/88

RAS Sacramento REPORT
NonReported Work

Work Order # S8-02-070

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C | DUP624
03C | DUP624

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT

04/11/88 14:14:51

Work Order # 88-02-072

REPORT TO: Radian
Bl. 4
Austin

ATTEN: Larry French

CLIENT: CARSWELL DO4 SAMPLES: 7
COMPANY: Carswell AFB
FACILITY: IRP

PREPARED BY: Radian Analytical Services
8501 Mo-pac Bl.
PO Box 201088
Austin, TX 78720-1088

ATTEN:
PHONE: 512-454-4797

CERTIFIED BY

CONTACT: SMITH

WORK ID: sites 4&5 soils
TAKEN: GC
TRANS: Fed Ex
TYPE:
P.O. #: 227-005-04-40
INVOICE: under separate cover

Footnotes and Comments

* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between 50 and 100%.

@ Indicates that spike recovery for this analysis on the specific matrix was not within acceptable limits indicating an interferent present.

SAMPLE IDENTIFICATION

01	Car8-02-012
02	Car8-02-015
03	Car8-02-018
04	Car8-02-021
05	Car8-02-024
06	Car8-02-029
07	Car8-02-030

TEST CODES and NAMES used on this report

AS G	Arsenic, graphite AA
D3050F	Digestion, meth.3050, AA
D3050P	Digestion,method 3050, ICP
HG C	Mercury, cold vapor
ICP200	ICPES, EPA 200.7 elements
ONG IR	Oil and grease, infrared
PREP W	Special preparation
SE G	Selenium, graphite AA

RAS - Austin REPORT

Work Order # 88-02-072

Received: 02/11/88

Results By Test

SAMPLE Sample Id	Test: AS G ug/ml	Test: D3050F date complete	Test: D3050P date complete	Test: ONG IR mg/L	Test: PREP W date complete
01 Car8-02-012	4.3R ug/g	02/18/88	02/23/88	<5 ug/g	02/19/88
02 Car8-02-015	9.4 ug/g	02/18/88	02/23/88	15* ug/g	02/19/88
03 Car8-02-018	13 ug/g	02/18/88	02/23/88	<5 ug/g	02/19/88
04 Car8-02-021	0.81* ug/g	02/18/88	02/23/88	<5 ug/g	02/19/88
05 Car8-02-024	0.79* ug/g	02/18/88	02/23/88	<5 ug/g	02/19/88
06 Car8-02-029	0.91* ug/g	02/18/88	02/23/88	<5 ug/g	02/19/88
07 Car8-02-030	0.85* ug/g	02/18/88	02/23/88	<5 ug/g	02/19/88

SAMPLE Sample Id	Test: SE G ug/ml
01 Car8-02-012	<0.3R ug/g
02 Car8-02-015	<0.3 ug/g
03 Car8-02-018	<0.3 ug/g
04 Car8-02-021	<0.3 ug/g
05 Car8-02-024	<0.3 ug/g

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results By Test

Work Order # 88-02-072
Continued From Above

SAMPLE Sample Id	Test: SE G ug/ml
06 Car8-02-029	<0.3 ug/g
07 Car8-02-030	<0.3 ug/g

RADIAN CORPORATION

RAS - Austin REPORT

Work Order # 88-02-072

Received: 02/11/88

Results by Sample

SAMPLE ID Car8-02-012 FRACTION 01A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 02/08/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-012

FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/08/88 Category

ANALYST DES

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.87	Mg	Magnesium	700	9.7
Al	Aluminum	1900	19	Mn	Manganese	82	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	58	Na	Sodium	70E	7.8
Ba	Barium	13	0.87	Ni	Nickel	4*	1.9
Be	Beryllium	ND	0.097	Pb	Lead	ND	4.9
Ca	Calcium	60000	5.8	Sb	Antimony	14*	5.8
Cd	Cadmium	ND	0.29	Se	Selenium	ND	29
Co	Cobalt	ND	0.97	Si	Silicon	260	29
Cr	Chromium	5.2E	0.87	Tl	Thallium	11*	8.7
Cu	Copper	1.6*	0.97	V	Vanadium	11E	1.9
Fe	Iron	4600	2.9	Zn	Zinc	6.0	0.58
K	Potassium	200	29				

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072
Continued From Above

SAMPLE ID Car8-02-012 FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/08/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-015

FRACTION 02A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 02/09/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-02-072

Received: 02/11/88 Results by Sample

SAMPLE ID Car8-02-015 FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/09/88 Category

ANALYST DES VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.88	Mg	Magnesium	1700	9.8
Al	Aluminum	8000	20	Mn	Manganese	240	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	59	Na	Sodium	290E	7.8
Ba	Barium	46	0.88	Ni	Nickel	9*	2.0
Be	Beryllium	0.23*	0.098	Pb	Lead	ND	4.9
Ca	Calcium	89000	12	Sb	Antimony	25*	5.9
Cd	Cadmium	ND	0.29	Se	Selenium	ND	59
Co	Cobalt	1.7*	0.98	Si	Silicon	240	29
Cr	Chromium	24E	0.88	Tl	Thallium	12*	8.8
Cu	Copper	9.8	0.98	V	Vanadium	24E	2.0
Fe	Iron	11000	2.9	Zn	Zinc	12	0.59
K	Potassium	950	29				

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072
Continued From Above

SAMPLE ID Car8-02-015

FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/09/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-018

FRACTION 03A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 02/09/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

KADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-018 FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/09/88 Category

ANALYST DES

VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	1.8*	0.87	Mg	Magnesium	2300	9.7
Al	Aluminum	10000	19	Mn	Manganese	270	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	58	Na	Sodium	120E	7.8
Ba	Barium	51	0.87	Ni	Nickel	8*	1.9
Be	Beryllium	0.47*	0.097	Pb	Lead	ND	4.9
Ca	Calcium	90000	47	Sb	Antimony	23*	5.8
Cd	Cadmium	ND	0.29	Se	Selenium	ND	58
Co	Cobalt	1.9*	0.97	Si	Silicon	300	29
Cr	Chromium	12E	0.87	Tl	Thallium	12*	8.7
Cu	Copper	4.0*	0.97	V	Vanadium	22E	1.9
Fe	Iron	9200	2.9	Zn	Zinc	18	0.58
K	Potassium	1300	29				

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072
Continued From Above

SAMPLE ID Car8-02-018

FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/09/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-021

FRACTION 04A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 02/09/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-021

FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/09/88 Category

ANALYST DES

VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	1.3*	0.87	Mg	Magnesium	130	9.7
Al	Aluminum	470	19	Mn	Manganese	34	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	58	Na	Sodium	56E	7.8
Ba	Barium	3.1*	0.87	Ni	Nickel	ND	1.9
Be	Beryllium	0.16*	0.097	Pb	Lead	ND	4.9
Ca	Calcium	7700	5.8	Sb	Antimony	ND	5.8
Cd	Cadmium	ND	0.29	Se	Selenium	ND	29
Co	Cobalt	ND	0.97	Si	Silicon	150	29
Cr	Chromium	2.5*E	0.87	Tl	Thallium	10*	8.7
Cu	Copper	ND	0.97	V	Vanadium	8*E	1.9
Fe	Iron	2200	2.9	Zn	Zinc	2.3*	0.58
K	Potassium	50*	29				

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072
Continued From Above

SAMPLE ID Car8-02-021

FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/09/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-024

FRACTION 05A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 02/10/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-024 FRACTION 05A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/10/88 Category

ANALYST DES

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	1.9*	0.89	Mg	Magnesium	100	9.9
Al	Aluminum	600	20	Mn	Manganese	42	0.30
As	Arsenic	ND	30	Mo	Molybdenum	ND	5.0
B	Boron	ND	59	Na	Sodium	35*E	7.9
Ba	Barium	6.3	0.89	Ni	Nickel	ND	2.0
Be	Beryllium	0.22*	0.099	Pb	Lead	ND	5.0
Ca	Calcium	3600	5.9	Sb	Antimony	9*	5.9
Cd	Cadmium	ND	0.30	Se	Selenium	ND	30
Co	Cobalt	ND	0.99	Si	Silicon	260	30
Cr	Chromium	2.6*E	0.89	Tl	Thallium	ND	8.9
Cu	Copper	ND	0.99	V	Vanadium	6*E	2.0
Fe	Iron	2200	3.0	Zn	Zinc	2.7*	0.59
K	Potassium	70*	30				

SAMPLE ID Car8-02-024 FRACTION 05A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/10/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-029 FRACTION 06A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 02/10/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403 ANALYZED 02/29/88 UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-029 FRACTION 06A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/10/88 Category

ANALYST DES

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	1.8*	0.89	Mg	Magnesium	130	9.9
Al	Aluminum	460	20	Mn	Manganese	32	0.30
As	Arsenic	ND	30	Mo	Molybdenum	ND	9.0
B	Boron	ND	59	Na	Sodium	36*E	7.9
Ba	Barium	3.3*	0.89	Ni	Nickel	ND	2.0
Be	Beryllium	0.20*	0.099	Pb	Lead	ND	5.0
Ca	Calcium	13000	5.9	Sb	Antimony	7*	5.9
Cd	Cadmium	ND	0.30	Se	Selenium	ND	30
Co	Cobalt	ND	0.99	Si	Silicon	290	30
Cr	Chromium	2.5*E	0.89	Tl	Thallium	ND	8.9
Cu	Copper	1.6*	0.99	V	Vanadium	9*E	2.0
Fe	Iron	2700	3.0	Zn	Zinc	3.4	0.59
K	Potassium	50*	30				

CORPORATION

Received: 02/11/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-029

FRACTION 06A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/10/88 Category

ANALYST DES

VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	1.8*	0.89	Mg	Magnesium	130	9.9
Al	Aluminum	460	20	Mn	Manganese	32	0.30
As	Arsenic	ND	30	Mo	Molybdenum	ND	5.0
B	Boron	ND	59	Na	Sodium	36*E	7.9
Ba	Barium	3.3*	0.89	Ni	Nickel	ND	2.0
Be	Beryllium	0.20*	0.099	Pb	Lead	ND	5.0
Ca	Calcium	13000	5.9	Sb	Antimony	7*	5.9
Cd	Cadmium	ND	0.30	Se	Selenium	ND	30
Co	Cobalt	ND	0.99	Si	Silicon	290	30
Cr	Chromium	2.5*E	0.89	Tl	Thallium	ND	8.9
Cu	Copper	1.6*	0.99	V	Vanadium	9*E	2.0
Fe	Iron	2700	3.0	Zn	Zinc	3.4	0.59
K	Potassium	50*	30				

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-030

FRACTION 07A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 02/10/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/11/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-072

SAMPLE ID Car8-02-030

FRACTION 07A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/10/88 Category

ANALYST DES

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	1.4*	0.87	Mg	Magnesium	120	9.7
Al	Aluminum	420	19	Mn	Manganese	29	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	58	Na	Sodium	51E	7.8
Ba	Barium	3.2*	0.87	Ni	Nickel	ND	1.9
Be	Beryllium	0.22*	0.097	Pb	Lead	ND	4.9
Ca	Calcium	13000	5.8	Sb	Antimony	6*	5.8
Cd	Cadmium	ND	0.29	Se	Selenium	ND	29
Co	Cobalt	ND	0.97	Si	Silicon	260	29
Cr	Chromium	2.5*E	0.87	Tl	Thallium	ND	8.7
Cu	Copper	1.6*	0.97	V	Vanadium	6*E	1.9
Fe	Iron	2400	2.9	Zn	Zinc	3.2	0.58
K	Potassium	70*	29				

SAMPLE ID Car8-02-030 FRACTION 07A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/10/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT
04/13/88 07:38:54

Work Order # 88-02-084

REPORT TO: Radian
Bl. 4
Austin

ATTEN: Larry French

CLIENT: CARSWELL D04 SAMPLES: 11
COMPANY: Carswell AFB
FACILITY: IRP

PREPARED BY: Radian Analytical Services
8501 Mo-pac Bl.
PO Box 201088
Austin, TX 78720-1088

ATTEN:
PHONE: 512-454-4797

CERTIFIED BY

CONTACT: SMITH

WORK ID: soils
TAKEN: GC
TRANS: Fed Ex
TYPE:
P.O. #: 227-005-04-40
INVOICE: under separate cover

Footnotes and Comments

* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between 50 and 100%.

@ Indicates that spike recovery for this analysis on the specific matrix was not within acceptable limits indicating an interferent present.

SAMPLE IDENTIFICATION

01	Car8-02-033
02	Car8-02-036
03	Car8-02-039
04	Car8-02-042
05	Car8-02-044
06	Car8-02-046
07	Car8-02-048
08	Car8-02-050
09	Car8-02-052
10	Car8-02-054
11	Car8-02-056

TEST CODES and NAMES used on this report

AS G	Arsenic, graphite AA
D3050F	Digestion, meth.3050, AA
D3050P	Digestion,method 3050, ICP
HC IR	Hydrocarbons
HG C	Mercury, cold vapor
ICP200	ICPES, EPA 200.7 elements
ONG IR	Oil and grease, infrared
PB G	Lead, graphite AA
PREP W	Special preparation
SE G	Selenium, graphite AA

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-02-084

Received: 02/16/88 Results By Test

SAMPLE Sample Id	Test: AS G ug/ml	Test: D3050F date complete	Test: D3050P date complete	Test: HC IR mg/L	Test: ONG IR mg/L
01 Car8-02-033	6.9 ug/g	02/24/88	02/25/88		<5 ug/g
02 Car8-02-036	5.1R ug/g	02/24/88	02/25/88		<5 ug/g
03 Car8-02-039	3.9 ug/g	02/24/88	02/25/88		<5 ug/g
04 Car8-02-042	7.6 ug/g	02/24/88	02/25/88		<5 ug/g
05 Car8-02-044		02/24/88		<5 ug/g	
06 Car8-02-046		02/24/88		<5 ug/g	
07 Car8-02-048		02/24/88		1800 ug/g	
08 Car8-02-050		02/24/88		15* ug/g	
09 Car8-02-052		02/24/88		520 ug/g	
10 Car8-02-054		02/24/88		240 ug/g	
11 Car8-02-056		02/24/88		1100 ug/g	

SAMPLE Sample Id	Test: PB G ug/ml	Test: PREP W date complete	Test: SE G ug/ml
01 Car8-02-033		02/19/88	<0.3 ug/g

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT
Results By Test

Work Order # 88-02-084
Continued From Above

SAMPLE Sample Id	Test: PB G ug/ml	Test: PREP W date complete	Test: SE G ug/ml
02 Car8-02-036		02/19/88	<0.3R ug/g
03 Car8-02-039		02/19/88	<0.3 ug/g
04 Car8-02-042		02/19/88	<0.3 ug/g
05 Car8-02-044	3.1 ug/g	02/19/88	
06 Car8-02-046	11 ug/g	02/19/88	
07 Car8-02-048	4.2 ug/g	02/19/88	
08 Car8-02-050	3.3 ug/g	02/19/88	
09 Car8-02-052	3.8 ug/g	02/19/88	
10 Car8-02-054	4.1 ug/g	02/19/88	
11 Car8-02-056	9.6 ug/g	02/19/88	

RADIAN CORPORATION

RAS - Austin REPORT

Work Order # 88-02-084

Received: 02/16/88

Results by Sample

SAMPLE ID Car8-02-033 FRACTION 01A TEST CODE HG C NAME Mercury, cold vapor

Date & Time Collected 02/14/88 Category

VERIFIED RHH

ANALYST KCP

INSTRMT 403 ANALYZED 02/29/88 UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-084

SAMPLE ID Car8-02-033 FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/14/88 Category

ANALYST DES VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	1.8*	0.87	Mg	Magnesium	1000	9.7
Al	Aluminum	5800	19	Mn	Manganese	170	0.29
As	Arsenic	40*	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	58	Na	Sodium	46	7.8
Ba	Barium	54	0.87	Ni	Nickel	8*	1.9
Be	Beryllium	0.45*	0.097	Pb	Lead	11*	4.9
Ca	Calcium	29000	5.8	Sb	Antimony	ND	5.8
Cd	Cadmium	0.4*	0.29	Se	Selenium	ND	29
Co	Cobalt	2.4*	0.97	Si	Silicon	340	29
Cr	Chromium	9.2	0.87	Tl	Thallium	ND	8.7
Cu	Copper	4.7*	0.97	V	Vanadium	18	1.9
Fe	Iron	11000	2.9	Zn	Zinc	14	0.58
K	Potassium	710	29				

SAMPLE ID Car8-02-033 FRACTION 01A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/14/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-084

SAMPLE ID Car8-02-036

FRACTION 02A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 02/14/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

 RAS - Austin REPORT Work Order # 88-02-084

Received: 02/16/88 Results by Sample

SAMPLE ID Car8-02-036 FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/14/88 Category

ANALYST DES VERIFIED RHH

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.88	Mg	Magnesium	910	9.8
Al	Aluminum	4800	20	Mn	Manganese	140	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	59	Na	Sodium	75	7.8
Ba	Barium	39	0.88	Ni	Nickel	5*	2.0
Be	Beryllium	0.31*	0.098	Pb	Lead	ND	4.9
Ca	Calcium	35000	5.9	Sb	Antimony	ND	5.9
Cd	Cadmium	ND	0.29	Se	Selenium	ND	29
Co	Cobalt	1.9*	0.98	Si	Silicon	400	29
Cr	Chromium	8.4	0.88	Tl	Thallium	ND	8.8
Cu	Copper	3.4*	0.98	V	Vanadium	18	2.0
Fe	Iron	7000	2.9	Zn	Zinc	13	0.59
K	Potassium	640	29				

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-084
Continued From Above

SAMPLE ID Car8-02-036

FRACTION 02A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/14/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-084

SAMPLE ID Car8-02-039

FRACTION 03A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 02/14/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-084

SAMPLE ID Car8-02-039 FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/14/88 Category

ANALYST DES

VERIFIED RHH
UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.88	Mg	Magnesium	1100	9.8
Al	Aluminum	5100	20	Mn	Manganese	110	0.29
As	Arsenic	ND	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	59	Na	Sodium	83	7.8
Ba	Barium	36	0.88	Ni	Nickel	5*	2.0
Be	Beryllium	0.30*	0.098	Pb	Lead	5*	4.9
Ca	Calcium	32000	5.9	Sb	Antimony	ND	5.9
Cd	Cadmium	ND	0.29	Se	Selenium	ND	29
Co	Cobalt	1.4*	0.98	Si	Silicon	380	29
Cr	Chromium	7.8	0.88	Tl	Thallium	ND	8.8
Cu	Copper	3.0*	0.98	V	Vanadium	12	2.0
Fe	Iron	5800	2.9	Zn	Zinc	10	0.59
K	Potassium	700	29				

SAMPLE ID Car8-02-039 FRACTION 03A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/14/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-084

SAMPLE ID Car8-02-042

FRACTION 04A TEST CODE HG C NAME Mercury, cold vapor
Date & Time Collected 02/14/88 Category

VERIFIED RHH

ANALYST KCP
INSTRMT 403

ANALYZED 02/29/88

UNITS ug/g

ANALYTE	RESULT	DET LIMIT
Mercury	ND	0.045

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit
N\A = not available

RADIAN CORPORATION

Received: 02/16/88

RAS - Austin REPORT

Results by Sample

Work Order # 88-02-084

SAMPLE ID Car8-02-042 FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements

Date & Time Collected 02/14/88 Category

ANALYST DES

VERIFIED RHM

UNITS ug/g

CODE	METAL	RESULT	DET LIMIT	CODE	METAL	RESULT	DET LIMIT
Ag	Silver	ND	0.87	Mg	Magnesium	1100	9.7
Al	Aluminum	5900	19	Mn	Manganese	140	0.29
As	Arsenic	30*	29	Mo	Molybdenum	ND	4.9
B	Boron	ND	58	Na	Sodium	97	7.8
Ba	Barium	55	0.87	Ni	Nickel	7*	1.9
Be	Beryllium	0.40*	0.097	Pb	Lead	8*	4.9
Ca	Calcium	30000	5.8	Sb	Antimony	6*	5.8
Cd	Cadmium	0.5*	0.29	Se	Selenium	ND	29
Co	Cobalt	2.8*	0.97	Si	Silicon	350	29
Cr	Chromium	9.1	0.87	Tl	Thallium	ND	8.7
Cu	Copper	5.6	0.97	V	Vanadium	17	1.9
Fe	Iron	9200	2.9	Zn	Zinc	16	0.58
K	Potassium	830	29				

Received: 02/16/88

RADIAN CORPORATION

RAS - Austin REPORT
Results by Sample

Work Order # 88-02-084
Continued From Above

SAMPLE ID Car8-02-042

FRACTION 04A TEST CODE ICP200 NAME ICPES, EPA 200.7 elements
Date & Time Collected 02/14/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
ND = not detected at detection limit
NA = not analyzed
* = less than 5 times the detection limit.
N\A = not available

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-084

Received: 02/24/88 03/30/88 22:12:41

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 20
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: Stage II, Site 12
TAKEN: 02/20-02/23/88
TRANS: Federal 5910117920
TYPE: Soil-8240/8270
P.O. #: 227-005-04-40
INV. #: 5002024

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

Lucia Petersen
CERTIFIED BY

CONTACT: LARRY FRENCH

SAMPLE IDENTIFICATION

01 CAR8-02-086
02 CAR8-02-087
03 CAR8-02-089
04 CAR8-02-090
05 CAR8-02-092
06 CAR8-02-094
07 CAR8-02-095
08 CAR8-02-097
09 CAR8-02-098
10 CAR8-02-100
11 CAR8-02-101
12 CAR8-02-102
13 CAR8-02-103
14 CAR8-02-105
15 CAR8-02-106
16 CAR8-02-108
17 CAR8-02-109
18 CAR8-02-111
19 REAGENT BLANK VOA
20 REAGENT BLANK BNA

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # 58-02-084

Received: 02/24/88

Results By Test

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed		02/26/88 DATE COMPLETED		02/26/88 DATE COMPLETED	
DRY_WT % moisture		28 % MOISTURE		16 % MOISTURE	
EX_BNA date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	
GPC date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	
VOA_S date completed	02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED

TEST CODE default units	Sample 06 (entered units)	Sample 07 (entered units)	Sample 08 (entered units)	Sample 09 (entered units)	Sample 10 (entered units)
BNA_S date completed	02/26/88 DATE COMPLETED		02/26/88 DATE COMPLETED		02/26/88 DATE COMPLETED
DRY_WT % moisture	27 % MOISTURE		16 % MOISTURE		26 % MOISTURE
EX_BNA date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
GPC date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
VOA_S date completed		02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED	

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT

Results By Test

Work Order # S8-02-084

TEST CODE default units	Sample 11 (entered units)	Sample 12 (entered units)	Sample 13 (entered units)	Sample 14 (entered units)	Sample 15 (entered units)
BNA_S date completed			02/26/88 DATE COMPLETED		02/26/88 DATE COMPLETED
DRY_WT % moisture			29 % MOISTURE		27 % MOISTURE
EX_BNA date completed			02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
GPC date completed			02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
VOA_S date completed	02/25/88 DATE COMPLETED	02/25/88		02/25/88	

TEST CODE default units	Sample 16 (entered units)	Sample 17 (entered units)	Sample 18 (entered units)	Sample 20 (entered units)
BNA_S date completed		02/26/88 DATE COMPLETED		
DRY_WT % moisture		27 % MOISTURE		
EX_BNA date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
GPC date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
VOA_S date completed	02/25/88		02/25/88	

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # SB-02-084

Received: 02/24/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR8-02-086					02/25/88 DATE COMPLETED
02 CAR8-02-087	02/26/88 DATE COMPLETED	28 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
03 CAR8-02-089					02/25/88 DATE COMPLETED
04 CAR8-02-090	02/26/88 DATE COMPLETED	16 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
05 CAR8-02-092					02/25/88 DATE COMPLETED
06 CAR8-02-094	02/26/88 DATE COMPLETED	27 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
07 CAR8-02-095					02/25/88 DATE COMPLETED
08 CAR8-02-097	02/26/88 DATE COMPLETED	16 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
09 CAR8-02-098					02/25/88 DATE COMPLETED
10 CAR8-02-100	02/26/88 DATE COMPLETED	26 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
11 CAR8-02-101					02/25/88 DATE COMPLETED
12 CAR8-02-102					02/25/88
13 CAR8-02-103	02/26/88 DATE COMPLETED	29 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
14 CAR8-02-105					02/25/88

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results By Test

Work Order # S8-02-084
Continued From Above

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
15 CAR8-02-106	02/26/88 DATE COMPLETED	27 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
16 CAR8-02-108					02/25/88
17 CAR8-02-109	02/26/88 DATE COMPLETED	27 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
18 CAR8-02-111					02/25/88
20 REAGENT BLANK B			02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-086

SAMPLE # 01 FRACTIONS: A,B,C
Date & Time Collected 02/20/88 Category

VOA S 02/25/88
DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT Work Order # S8-02-084

Received: 02/24/88

Results by Sample

SAMPLE ID CAR8-02-086 FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/20/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208401A

INSTRMT F4 INJECTD 02/27/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.8
	74-83-9	bromomethane	ND	5.8
	75-01-4	vinyl chloride	ND	5.8
	75-00-3	chloroethane	ND	5.8
	75-09-2	methylene chloride	ND	3.2
147	67-64-1	acetone	15 B	8.6
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.8
	75-35-4	1,1-dichloroethene	ND	5.4
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.8
	67-66-3	chloroform	ND	1.8
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.4
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	7.9
	75-27-4	bromodichloromethane	ND	2.5
	78-87-5	1,2-dichloropropane	ND	6.9
	10061-01-5	cis-1,3-dichloropropene	ND	5.8
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.6
	79-00-5	1,1,2-trichloroethane	ND	5.8
	71-43-2	benzene	ND	5.1
	10061-02-6	trans-1,3-dichloropropene	ND	5.8
	110-75-8	2-chloroethylvinyl ether	ND	5.8
	75-25-2	bromoform	ND	5.4
	591-78-6	2-hexanone	ND	41

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-086 FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/20/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	53
	127-18-4	tetrachloroethene	ND	4.7
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.9
409	108-88-3	toluene	19	6.9
	108-90-7	chlorobenzene	ND	6.9
	100-41-4	ethylbenzene	ND	8.3
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	96 %
406	Toluene-d8	100 %
513	BFB	95 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-087

SAMPLE # 02 FRACTIONS: A

Date & Time Collected 02/20/88

Category

BNA S 02/26/88 DATE COMPLETED

DRY WT 28 % MOISTURE

EX BNA 02/29/88 DATE COMPLETED

GPC 02/29/88 DATE COMPLETED

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CARB-02-087 FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/20/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208402A VERIFIED LAK
INSTRMT F2 INJECTD 03/03/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	920
	108-95-2	phenol	ND	140
	62-53-3	aniline	ND	920
	111-44-4	bis(2-chloroethyl) ether	ND	530
	95-57-8	2-chlorophenol	ND	300
	541-73-1	1,3-dichlorobenzene	ND	180
	106-46-7	1,4-dichlorobenzene	ND	410
	100-51-6	benzyl alcohol	ND	4600
	95-50-1	1,2-dichlorobenzene	ND	180
	95-48-7	2-methylphenol	ND	920
	108-60-1	bis(2-chloroisopropyl)ether	ND	530
	106-44-5	4-methylphenol	ND	920
	621-64-7	n-nitroso-di-n-propylamine	ND	1100
	67-72-1	hexachloroethane	ND	150
	98-95-3	nitrobenzene	ND	180
	78-59-1	isophorone	ND	200
	88-75-5	2-nitrophenol	ND	330
	105-67-9	2,4-dimethylphenol	ND	250
	65-85-0	benzoic acid	ND	4600
	111-91-1	bis(2-chloroethoxy)methane	ND	490
	120-83-2	2,4-dichlorophenol	ND	250
	120-82-1	1,2,4-trichlorobenzene	ND	180
	91-20-3	naphthalene	ND	150
	106-47-8	4-chloroaniline	ND	920
	87-68-3	hexachlorobutadiene	ND	83
	59-50-7	4-chloro-3-methylphenol	ND	280
	91-57-6	2-methylnaphthalene	ND	920

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-087 FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/20/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	550
	88-06-2	2,4,6-trichlorophenol	ND	250
	95-95-4	2,4,5-trichlorophenol	ND	920
	91-58-7	2-chloronaphthalene	ND	180
	88-74-4	2-nitroaniline	ND	4600
	131-11-3	dimethyl phthalate	ND	150
	208-96-8	acenaphthylene	ND	320
	99-09-2	3-nitroaniline	ND	4600
	83-32-9	acenaphthene	ND	180
	51-28-5	2,4-dinitrophenol	ND	3900
	100-02-7	4-nitrophenol	ND	220
	132-64-9	dibenzofuran	ND	920
	606-20-2	2,6-dinitrotoluene	ND	180
	121-14-2	2,4-dinitrotoluene	ND	530
	84-66-2	diethylphthalate	ND	180
	7005-72-3	4-chlorophenyl-phenylether	ND	390
	86-73-7	fluorene	ND	180
	100-01-06	4-nitroaniline	ND	4600
	534-52-1	4,6-dinitro-2-methylphenol	ND	2200
	86-30-6	n-nitrosodiphenylamine	ND	180
	101-55-3	4-bromophenyl-phenylether	ND	180
	118-74-1	hexachlorobenzene	ND	180
	87-86-5	pentachlorophenol	ND	330
	85-01-8	phenanthrene	ND	500
	120-12-7	anthracene	ND	180
1218	84-74-2	di-n-butylphthalate	310 B	230
	206-44-0	fluoranthene	ND	200
	92-87-5	benzidine	ND	4100
	129-00-0	pyrene	ND	180
	85-68-7	butylbenzylphthalate	ND	230
	91-94-1	3,3'-dichlorobenzidine	ND	1500
	56-55-3	benzo(a)anthracene	ND	720
1544	117-81-7	bis(2-ethylhexyl)phthalate	190 J	230

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CARB-02-087

FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/20/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	230
1635	117-84-0	di-n-octyl phthalate	180 J	230
	205-99-2	benzo(b)fluoranthene	ND	440
	207-08-9	benzo(k)fluoranthene	ND	230
	50-32-8	benzo(a)pyrene	ND	230
	193-39-5	indeno(1,2,3-cd)pyrene	ND	340
	53-70-3	dibenz(a,h)anthracene	ND	230
	191-24-2	benzo(ghi)perylene	ND	380

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
283	2-fluorophenol	76 %
410	d5-phenol	66 %
525	d5-nitrobenzene	72 %
791	2-fluorobiphenyl	66 %
1006	2,4,6-tribromophenol	66 %
1359	d14-terphenyl	72 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-089 SAMPLE # 03 FRACTIONS: A, B, C
Date & Time Collected 02/20/88 Category

VOA S 02/25/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-089 FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/20/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208403A
INSTRMT F4 INJECTD 02/27/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.3
	74-83-9	bromomethane	ND	5.3
	75-01-4	vinyl chloride	ND	5.3
	75-00-3	chloroethane	ND	5.3
	75-09-2	methylene chloride	ND	2.9
147	67-64-1	acetone	13 B	7.9
	75-15-0	carbon disulfide	ND	1.8
	75-69-4	trichlorofluoromethane	ND	5.3
	75-35-4	1,1-dichloroethene	ND	4.9
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.7
	67-66-3	chloroform	ND	1.7
	107-06-2	1,2-dichloroethane	ND	2.9
224	78-93-3	2-butanone	34	26
	71-55-6	1,1,1-trichloroethane	ND	4.0
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.2
	75-27-4	bromodichloromethane	ND	2.3
	78-87-5	1,2-dichloropropane	ND	6.3
	10061-01-5	cis-1,3-dichloropropene	ND	5.3
	79-01-6	trichloroethene	ND	2.0
	124-48-1	dibromochloromethane	ND	3.3
	79-00-5	1,1,2-trichloroethane	ND	5.3
	71-43-2	benzene	ND	4.6
	10061-02-6	trans-1,3-dichloropropene	ND	5.3
	110-75-8	2-chloroethylvinyl ether	ND	5.3
	75-25-2	bromoform	ND	4.9
	591-78-6	2-hexanone	ND	38

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-089 FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/20/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	48
	127-18-4	tetrachloroethene	ND	4.3
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.2
409	108-88-3	toluene	1.1 J	6.3
	108-90-7	chlorobenzene	ND	6.3
	100-41-4	ethylbenzene	ND	7.6
	100-42-5	styrene	ND	3.2
	95-47-6	total xylenes	ND	4.8

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	95 %
406	Toluene-d8	99 %
515	BFB	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-090 SAMPLE # 04 FRACTIONS: A
Date & Time Collected 02/20/88 Category

BNA_S 02/26/88 (DATE COMPLETED) DRY_WT 16 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-090 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/20/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208404A VERIFIED LAK
INSTRMT F2 INJECTD 03/03/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	790
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	790
	111-44-4	bis(2-chloroethyl) ether	ND	450
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	3900
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	790
	108-60-1	bis(2-chloroisopropyl)ether	ND	450
	106-44-5	4-methylphenol	ND	790
	621-64-7	n-nitroso-di-n-propylamine	ND	940
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	280
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	3900
	111-91-1	bis(2-chloroethoxy)methane	ND	420
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	130
	106-47-8	4-chloroaniline	ND	790
	87-68-3	hexachlorobutadiene	ND	71
	59-50-7	4-chloro-3-methylphenol	ND	240
	91-57-6	2-methylnaphthalene	ND	790

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-090

FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/20/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	470
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	790
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	3900
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	280
	99-09-2	3-nitroaniline	ND	3900
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3300
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	790
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	450
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	330
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	3900
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	280
	85-01-8	phenanthrene	ND	420
	120-12-7	anthracene	ND	150
	84-74-2	di-n-butylphthalate	ND	200
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	610
1545	117-81-7	bis(2-ethylhexyl)phthalate	120 J	200

SAMPLE ID CAR8-02-090 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/20/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
	117-84-0	di-n-octyl phthalate	ND	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	290
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
237	2-fluorophenol	77 %
390	d5-phenol	71 %
516	d5-nitrobenzene	73 %
791	2-fluorobiphenyl	69 %
1007	2,4,6-tribromophenol	65 %
1360	d14-terphenyl	80 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-092

SAMPLE # 05 FRACTIONS: A,B,C
Date & Time Collected 02/23/88 Category

VOA S 02/25/88
DATE COMPLETED

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # 88-02-084

SAMPLE ID CAR8-02-092 FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208405A
INSTRMT F4 INJECTD 02/27/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.8
	74-83-9	bromomethane	ND	5.8
	75-01-4	vinyl chloride	ND	5.8
	75-00-3	chloroethane	ND	5.8
	75-09-2	methylene chloride	ND	3.2
145	67-64-1	acetone	12 B	8.7
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.8
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.4
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	8.0
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.8
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.6
	79-00-5	1,1,2-trichloroethane	ND	5.8
	71-43-2	benzene	ND	5.1
	10061-02-6	trans-1,3-dichloropropene	ND	5.8
	110-75-8	2-chloroethylvinyl ether	ND	5.8
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-092

FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	53
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.0
409	108-88-3	toluene	18	7.0
	108-90-7	chlorobenzene	ND	7.0
	100-41-4	ethylbenzene	ND	8.4
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	96 %
406	Toluene-d8	100 %
514	BFB	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-084

SAMPLE ID CAR8-02-094 SAMPLE # 06 FRACTIONS: A
Date & Time Collected 02/23/88 Category

BNA_S 02/26/88 DRY_WT 27 EX_BNA 02/29/88 GPC 02/29/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-094 FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208406A VERIFIED LAK
INSTRMT F2 INJECTD 03/03/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	910
	108-95-2	phenol	ND	140
	62-53-3	aniline	ND	910
	111-44-4	bis(2-chloroethyl) ether	ND	520
	95-57-8	2-chlorophenol	ND	300
	541-73-1	1,3-dichlorobenzene	ND	170
	106-46-7	1,4-dichlorobenzene	ND	400
	100-51-6	benzyl alcohol	ND	4600
	95-50-1	1,2-dichlorobenzene	ND	170
	95-48-7	2-methylphenol	ND	910
	108-60-1	bis(2-chloroisopropyl)ether	ND	520
	106-44-5	4-methylphenol	ND	910
	621-64-7	n-nitroso-di-n-propylamine	ND	1100
	67-72-1	hexachloroethane	ND	150
	98-95-3	nitrobenzene	ND	170
	78-59-1	isophorone	ND	200
	88-75-5	2-nitrophenol	ND	330
	105-67-9	2,4-dimethylphenol	ND	250
	65-85-0	benzoic acid	ND	4600
	111-91-1	bis(2-chloroethoxy)methane	ND	480
	120-83-2	2,4-dichlorophenol	ND	250
	120-82-1	1,2,4-trichlorobenzene	ND	170
	91-20-3	naphthalene	ND	150
	106-47-8	4-chloroaniline	ND	910
	87-68-3	hexachlorobutadiene	ND	82
	59-50-7	4-chloro-3-methylphenol	ND	270
	91-57-6	2-methylnaphthalene	ND	910

SAMPLE ID CAR8-02-094 FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	550
	88-06-2	2,4,6-trichlorophenol	ND	250
	95-95-4	2,4,5-trichlorophenol	ND	910
	91-58-7	2-chloronaphthalene	ND	170
	88-74-4	2-nitroaniline	ND	4600
	131-11-3	dimethyl phthalate	ND	150
	208-96-8	acenaphthylene	ND	320
	99-09-2	3-nitroaniline	ND	4600
	83-32-9	acenaphthene	ND	170
	51-28-5	2,4-dinitrophenol	ND	3800
	100-02-7	4-nitrophenol	ND	220
	132-64-9	dibenzofuran	ND	910
	606-20-2	2,6-dinitrotoluene	ND	170
	121-14-2	2,4-dinitrotoluene	ND	520
	84-66-2	diethylphthalate	ND	170
	7005-72-3	4-chlorophenyl-phenylether	ND	380
	86-73-7	fluorene	ND	170
	100-01-06	4-nitroaniline	ND	4600
	534-52-1	4,6-dinitro-2-methylphenol	ND	2200
	86-30-6	n-nitrosodiphenylamine	ND	170
	101-55-3	4-bromophenyl-phenylether	ND	170
	118-74-1	hexachlorobenzene	ND	170
	87-86-5	pentachlorophenol	ND	330
	85-01-8	phenanthrene	ND	490
	120-12-7	anthracene	ND	170
1220	84-74-2	di-n-butylphthalate	150 BJ	230
	206-44-0	fluoranthene	ND	200
	92-87-5	benzidine	ND	4000
	129-00-0	pyrene	ND	170
	85-68-7	butylbenzylphthalate	ND	230
	91-94-1	3,3'-dichlorobenzidine	ND	1500
	56-55-3	benzo(a)anthracene	ND	710
1546	117-81-7	bis(2-ethylhexyl)phthalate	110 J	230

SAMPLE ID CAR8-02-094 FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	230
1637	117-84-0	di-n-octyl phthalate	100 J	230
	205-99-2	benzo(b)fluoranthene	ND	440
	207-08-9	benzo(k)fluoranthene	ND	230
	50-32-8	benzo(a)pyrene	ND	230
	193-39-5	indeno(1,2,3-cd)pyrene	ND	340
	53-70-3	dibenz(a,h)anthracene	ND	230
	191-24-2	benzo(ghi)perylene	ND	370

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
227	2-fluorophenol	71 %
388	d5-phenol	65 %
514	d5-nitrobenzene	67 %
791	2-fluorobiphenyl	64 %
1007	2,4,6-tribromophenol	65 %
1361	d14-terphenyl	67 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-095

SAMPLE # 07 FRACTIONS: A,B,C
Date & Time Collected 02/23/88 Category

VOA S 02/25/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-095

FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208407A
INSTRMT F4 INJECTD 02/28/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.2
	74-83-9	bromomethane	ND	5.2
	75-01-4	vinyl chloride	ND	5.2
	75-00-3	chloroethane	ND	5.2
	75-09-2	methylene chloride	ND	2.9
146	67-64-1	acetone	15 B	7.7
	75-15-0	carbon disulfide	ND	1.8
	75-69-4	trichlorofluoromethane	ND	5.2
	75-35-4	1,1-dichloroethene	ND	4.8
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.9
	78-93-3	2-butanone	ND	26
	71-55-6	1,1,1-trichloroethane	ND	3.9
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.1
	75-27-4	bromodichloromethane	ND	2.3
	78-87-5	1,2-dichloropropane	ND	6.2
	10061-01-5	cis-1,3-dichloropropene	ND	5.2
	79-01-6	trichloroethene	ND	2.0
	124-48-1	dibromochloromethane	ND	3.2
	79-00-5	1,1,2-trichloroethane	ND	5.2
	71-43-2	benzene	ND	4.5
	10061-02-6	trans-1,3-dichloropropene	ND	5.2
	110-75-8	2-chloroethylvinyl ether	ND	5.2
	75-25-2	bromoform	ND	4.8
	591-78-6	2-hexanone	ND	37

SAMPLE ID CAR8-02-095 FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	47
	127-18-4	tetrachloroethene	ND	4.2
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.1
408	108-88-3	toluene	1.9 J	6.2
	108-90-7	chlorobenzene	ND	6.2
	100-41-4	ethylbenzene	ND	7.4
	100-42-5	styrene	ND	3.1
	95-47-6	total xylenes	ND	4.7

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
228	1,2-dichloroethane-d4	94 %
405	Toluene-d8	97 %
514	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-084

SAMPLE ID CAR8-02-097 SAMPLE # 08 FRACTIONS: A
Date & Time Collected 02/23/88 Category

BNA_S 02/26/88 DRY_WT 16 EX_BNA 02/29/88 GPC 02/29/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-097 FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208408A VERIFIED LAK
INSTRMT F2 INJECTD 03/03/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	790
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	790
	111-44-4	bis(2-chloroethyl) ether	ND	450
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	4000
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	790
	108-60-1	bis(2-chloroisopropyl)ether	ND	450
	106-44-5	4-methylphenol	ND	790
	621-64-7	n-nitroso-di-n-propylamine	ND	950
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	290
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	4000
	111-91-1	bis(2-chloroethoxy)methane	ND	420
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	130
	106-47-8	4-chloroaniline	ND	790
	87-68-3	hexachlorobutadiene	ND	71
	59-50-7	4-chloro-3-methylphenol	ND	240
	91-57-6	2-methylnaphthalene	ND	790

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-097

FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	480
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	790
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	4000
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	280
	99-09-2	3-nitroaniline	ND	4000
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3300
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	790
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	450
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	330
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	4000
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	290
	85-01-8	phenanthrene	ND	430
	120-12-7	anthracene	ND	150
1220	84-74-2	di-n-butylphthalate	250 B	200
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	620
1546	117-81-7	bis(2-ethylhexyl)phthalate	160 J	200

SAMPLE ID CARB-02-097 FRACTION OBA TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
	117-84-0	di-n-octyl phthalate	ND	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	290
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
235	2-fluorophenol	85 %
390	d5-phenol	81 %
518	d5-nitrobenzene	79 %
792	2-fluorobiphenyl	78 %
1007	2,4,6-tribromophenol	77 %
1360	d14-terphenyl	79 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-084

Received: 02/24/88

Results by Sample

SAMPLE ID CAR8-02-098

SAMPLE # 09 FRACTIONS: A,B,C

Date & Time Collected 02/23/88 Category

VOA S 02/25/88
DATE COMPLETED

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-098 FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208409A
INSTRMT F4 INJECTD 02/28/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.3
	74-83-9	bromomethane	ND	5.3
	75-01-4	vinyl chloride	ND	5.3
	75-00-3	chloroethane	ND	5.3
	75-09-2	methylene chloride	ND	2.9
146	67-64-1	acetone	29 B	7.9
	75-15-0	carbon disulfide	ND	1.8
	75-69-4	trichlorofluoromethane	ND	5.3
	75-35-4	1,1-dichloroethene	ND	4.9
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.7
	67-66-3	chloroform	ND	1.7
	107-06-2	1,2-dichloroethane	ND	2.9
	78-93-3	2-butanone	ND	26
	71-55-6	1,1,1-trichloroethane	ND	4.0
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.2
	75-27-4	bromodichloromethane	ND	2.3
	78-87-5	1,2-dichloropropane	ND	6.3
	10061-01-5	cis-1,3-dichloropropene	ND	5.3
	79-01-6	trichloroethene	ND	2.0
	124-48-1	dibromochloromethane	ND	3.3
	79-00-5	1,1,2-trichloroethane	ND	5.3
	71-43-2	benzene	ND	4.6
	10061-02-6	trans-1,3-dichloropropene	ND	5.3
	110-75-8	2-chloroethylvinyl ether	ND	5.3
	75-25-2	bromoform	ND	4.9
	591-78-6	2-hexanone	ND	38

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-098 FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	48
	127-18-4	tetrachloroethene	ND	4.3
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.2
410	108-88-3	toluene	4.2 J	6.3
	108-90-7	chlorobenzene	ND	6.3
	100-41-4	ethylbenzene	ND	7.6
	100-42-5	styrene	ND	3.2
	95-47-6	total xylenes	ND	4.8

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	93 %
407	Toluene-d8	100 %
515	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-100 SAMPLE # 10 FRACTIONS: A
Date & Time Collected 02/23/88 Category

BNA_S 02/26/88 DATE COMPLETED
DRY_WT 26 % MOISTURE
EX_BNA 02/29/88 DATE COMPLETED
GPC 02/29/88 DATE COMPLETED

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-100 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208410A VERIFIED LAK
INSTRMT F2 INJECTD 03/03/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	890
	108-95-2	phenol	ND	130
	62-53-3	aniline	ND	890
	111-44-4	bis(2-chloroethyl) ether	ND	510
	95-57-8	2-chlorophenol	ND	300
	541-73-1	1,3-dichlorobenzene	ND	170
	106-46-7	1,4-dichlorobenzene	ND	390
	100-51-6	benzyl alcohol	ND	4500
	95-50-1	1,2-dichlorobenzene	ND	170
	95-48-7	2-methylphenol	ND	890
	108-60-1	bis(2-chloroisopropyl)ether	ND	510
	106-44-5	4-methylphenol	ND	890
	621-64-7	n-nitroso-di-n-propylamine	ND	1100
	67-72-1	hexachloroethane	ND	140
	98-95-3	nitrobenzene	ND	170
	78-59-1	isophorone	ND	200
	88-75-5	2-nitrophenol	ND	320
	105-67-9	2,4-dimethylphenol	ND	240
	65-85-0	benzoic acid	ND	4500
	111-91-1	bis(2-chloroethoxy)methane	ND	470
	120-83-2	2,4-dichlorophenol	ND	240
	120-82-1	1,2,4-trichlorobenzene	ND	170
	91-20-3	naphthalene	ND	140
	106-47-8	4-chloroaniline	ND	890
	87-68-3	hexachlorobutadiene	ND	80
	59-50-7	4-chloro-3-methylphenol	ND	270
	91-57-6	2-methylnaphthalene	ND	890

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-100 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	540
	88-06-2	2,4,6-trichlorophenol	ND	240
	95-95-4	2,4,5-trichlorophenol	ND	890
	91-58-7	2-chloronaphthalene	ND	170
	88-74-4	2-nitroaniline	ND	4500
	131-11-3	dimethyl phthalate	ND	140
	208-96-8	acenaphthylene	ND	310
	99-09-2	3-nitroaniline	ND	4500
	83-32-9	acenaphthene	ND	170
	51-28-5	2,4-dinitrophenol	ND	3800
	100-02-7	4-nitrophenol	ND	210
	132-64-9	dibenzofuran	ND	890
	606-20-2	2,6-dinitrotoluene	ND	170
	121-14-2	2,4-dinitrotoluene	ND	510
	84-66-2	diethylphthalate	ND	170
	7005-72-3	4-chlorophenyl-phenylether	ND	380
	86-73-7	fluorene	ND	170
	100-01-06	4-nitroaniline	ND	4500
	534-52-1	4,6-dinitro-2-methylphenol	ND	2100
	86-30-6	n-nitrosodiphenylamine	ND	170
	101-55-3	4-bromophenyl-phenylether	ND	170
	118-74-1	hexachlorobenzene	ND	170
	87-86-5	pentachlorophenol	ND	320
	85-01-8	phenanthrene	ND	480
	120-12-7	anthracene	ND	170
1218	84-74-2	di-n-butylphthalate	240 B	220
	206-44-0	fluoranthene	ND	200
	92-87-5	benzidine	ND	3900
	129-00-0	pyrene	ND	170
	85-68-7	butylbenzylphthalate	ND	220
	91-94-1	3,3'-dichlorobenzidine	ND	1500
	56-55-3	benzo(a)anthracene	ND	700
1543	117-81-7	bis(2-ethylhexyl)phthalate	94 J	220

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-100 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	220
1635	117-84-0	di-n-octyl phthalate	92 J	220
	205-99-2	benzo(b)fluoranthene	ND	430
	207-08-9	benzo(k)fluoranthene	ND	220
	50-32-8	benzo(a)pyrene	ND	220
	193-39-5	indeno(1,2,3-cd)pyrene	ND	330
	53-70-3	dibenz(a,h)anthracene	ND	220
	191-24-2	benzo(ghi)perylene	ND	370

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	2-fluorophenol	76 %
385	d5-phenol	74 %
514	d5-nitrobenzene	70 %
790	2-fluorobiphenyl	67 %
1006	2,4,6-tribromophenol	71 %
1359	d14-terphenyl	65 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-101 SAMPLE # 11 FRACTIONS: A,B,C
Date & Time Collected 02/23/88 Category

VOA S 02/25/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-101

FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208411A
INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
	75-09-2	methylene chloride	ND	2.8
	67-64-1	acetone	ND	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

SAMPLE ID CAR8-02-101 FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	93 %
407	Toluene-d8	100 %
515	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR8-02-102 SAMPLE # 12 FRACTIONS: A,B,C
Date & Time Collected 02/23/88 Category

VOA S 02/25/88
date completed

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-102 FRACTION 12A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208412R
INSTRMT 5100 INJECTD 03/06/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	1300
	74-83-9	bromomethane	ND	1300
	75-01-4	vinyl chloride	ND	1300
	75-00-3	chloroethane	ND	1300
	75-09-2	methylene chloride	ND	700
114	67-64-1	acetone	740 BJ	1900
	75-15-0	carbon disulfide	ND	430
	75-69-4	trichlorofluoromethane	ND	1300
	75-35-4	1,1-dichloroethene	ND	1200
	75-34-3	1,1-dichloroethane	ND	700
	156-60-5	trans-1,2-dichloroethene	ND	400
	67-66-3	chloroform	ND	400
	107-06-2	1,2-dichloroethane	ND	700
206	78-93-3	2-butanone	3600 BJ	6300
	71-55-6	1,1,1-trichloroethane	ND	950
	56-23-5	carbon tetrachloride	ND	700
	108-05-4	vinyl acetate	ND	1700
	75-27-4	bromodichloromethane	ND	550
	78-87-5	1,2-dichloropropane	ND	1500
	10061-01-5	cis-1,3-dichloropropene	ND	1300
	79-01-6	trichloroethene	ND	480
	124-48-1	dibromochloromethane	ND	780
	79-00-5	1,1,2-trichloroethane	ND	1300
288	71-43-2	benzene	370 J	1100
	10061-02-6	trans-1,3-dichloropropene	ND	1300
	110-75-8	2-chloroethylvinyl ether	ND	1300
	75-25-2	bromoform	ND	1200
	591-78-6	2-hexanone	ND	9000

SAMPLE ID CAR8-02-102 FRACTION 12A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	12000
	127-18-4	tetrachloroethene	ND	1000
	79-34-5	1,1,2,2-tetrachloroethane	ND	1700
395	108-88-3	toluene	11000	1500
	108-90-7	chlorobenzene	ND	1500
446	100-41-4	ethylbenzene	4100	1800
	100-42-5	styrene	ND	750
517	95-47-6	total xylenes	32000	1200

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
203	1,2-dichloroethane-d4	85 %
392	Toluene-d8	98 %
486	BFB	109 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR8-02-103 SAMPLE # 13 FRACTIONS: A
Date & Time Collected 02/23/88 Category

BNA_S 02/26/88 DRY_WT 29 EX_BNA 02/29/88 GPC 02/29/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-103 FRACTION 13A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208413A VERIFIED LAK
INSTRMT F2 INJECTD 03/07/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	1200
412	108-95-2	phenol	500	180
	62-53-3	aniline	ND	1200
	111-44-4	bis(2-chloroethyl) ether	ND	670
	95-57-8	2-chlorophenol	ND	390
	541-73-1	1,3-dichlorobenzene	ND	220
	106-46-7	1,4-dichlorobenzene	ND	510
	100-51-6	benzyl alcohol	ND	5800
	95-50-1	1,2-dichlorobenzene	ND	220
	95-48-7	2-methylphenol	ND	1200
	108-60-1	bis(2-chloroisopropyl)ether	ND	670
515	106-44-5	4-methylphenol	4200	1200
	621-64-7	n-nitroso-di-n-propylamine	ND	1400
	67-72-1	hexachloroethane	ND	190
	98-95-3	nitrobenzene	ND	220
	78-59-1	isophorone	ND	260
	88-75-5	2-nitrophenol	ND	420
	105-67-9	2,4-dimethylphenol	ND	320
	65-85-0	benzoic acid	ND	5800
	111-91-1	bis(2-chloroethoxy)methane	ND	620
	120-83-2	2,4-dichlorophenol	ND	320
	120-82-1	1,2,4-trichlorobenzene	ND	220
628	91-20-3	naphthalene	3900	190
	106-47-8	4-chloroaniline	ND	1200
	87-68-3	hexachlorobutadiene	ND	110
	59-50-7	4-chloro-3-methylphenol	ND	350
732	91-57-6	2-methylnaphthalene	8700	1200

SAMPLE ID CAR8-02-103 FRACTION 13A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	700
	88-06-2	2,4,6-trichlorophenol	ND	320
	95-95-4	2,4,5-trichlorophenol	ND	1200
	91-58-7	2-chloronaphthalene	ND	220
	88-74-4	2-nitroaniline	ND	5800
	131-11-3	dimethyl phthalate	ND	190
	208-96-8	acenaphthylene	ND	410
	99-09-2	3-nitroaniline	ND	5800
	83-32-9	acenaphthene	ND	220
	51-28-5	2,4-dinitrophenol	ND	4900
	100-02-7	4-nitrophenol	ND	280
917	132-64-9	dibenzofuran	170 J	1200
	606-20-2	2,6-dinitrotoluene	ND	220
	121-14-2	2,4-dinitrotoluene	ND	670
	84-66-2	diethylphthalate	ND	220
	7005-72-3	4-chlorophenyl-phenylether	ND	490
	86-73-7	fluorene	ND	220
	100-01-06	4-nitroaniline	ND	5800
	534-52-1	4,6-dinitro-2-methylphenol	ND	2800
	86-30-6	n-nitrosodiphenylamine	ND	220
	101-55-3	4-bromophenyl-phenylether	ND	220
	118-74-1	hexachlorobenzene	ND	220
	87-86-5	pentachlorophenol	ND	420
	85-01-8	phenanthrene	ND	630
	120-12-7	anthracene	ND	220
1218	84-74-2	di-n-butylphthalate	620 B	290
	206-44-0	fluoranthene	ND	260
	92-87-5	benzidine	ND	5100
	129-00-0	pyrene	ND	220
	85-68-7	butylbenzylphthalate	ND	290
	91-94-1	3,3'-dichlorobenzidine	ND	1900
	56-55-3	benzo(a)anthracene	ND	910
1546	117-81-7	bis(2-ethylhexyl)phthalate	530	290

SAMPLE ID CAR8-02-103 FRACTION 13A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	290
1636	117-84-0	di-n-octyl phthalate	150 J	290
	205-99-2	benzo(b)fluoranthene	ND	560
	207-08-9	benzo(k)fluoranthene	ND	290
	50-32-8	benzo(a)pyrene	ND	290
	193-39-5	indeno(1,2,3-cd)pyrene	ND	430
	53-70-3	dibenz(a,h)anthracene	ND	290
	191-24-2	benzo(ghi)perylene	ND	480

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
283	2-fluorophenol	88 %
410	d5-phenol	89 %
526	d5-nitrobenzene	130 QC %
792	2-fluorobiphenyl	95 %
1007	2,4,6-tribromophenol	109 %
1360	d14-terphenyl	104 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-105 SAMPLE # 14 FRACTIONS: A,B,C
Date & Time Collected 02/23/88 Category

VOA S 02/25/88
date completed

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-084

Received: 02/24/88 Results by Sample

SAMPLE ID CAR8-02-105 FRACTION 14A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208414A

INSTRMT 5100 INJECTD 03/06/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	1300
	74-83-9	bromomethane	ND	1300
	75-01-4	vinyl chloride	ND	1300
	75-00-3	chloroethane	ND	1300
	75-09-2	methylene chloride	ND	700
98	67-64-1	acetone	4000 B	1900
	75-15-0	carbon disulfide	ND	430
	75-69-4	trichlorofluoromethane	ND	1300
	75-35-4	1,1-dichloroethene	ND	1200
	75-34-3	1,1-dichloroethane	ND	700
	156-60-5	trans-1,2-dichloroethene	ND	400
	67-66-3	chloroform	ND	400
	107-06-2	1,2-dichloroethane	ND	700
200	78-93-3	2-butanone	4300 BJ	6300
	71-55-6	1,1,1-trichloroethane	ND	950
	56-23-5	carbon tetrachloride	ND	700
	108-05-4	vinyl acetate	ND	1700
	75-27-4	bromodichloromethane	ND	550
	78-87-5	1,2-dichloropropane	ND	1500
	10061-01-5	cis-1,3-dichloropropene	ND	1300
	79-01-6	trichloroethene	ND	480
	124-48-1	dibromochloromethane	ND	780
	79-00-5	1,1,2-trichloroethane	ND	1300
	71-43-2	benzene	ND	1100
	10061-02-6	trans-1,3-dichloropropene	ND	1300
	110-75-8	2-chloroethylvinyl ether	ND	1300
	75-25-2	bromoform	ND	1200
	591-78-6	2-hexanone	ND	9000

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-105

FRACTION 14A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	12000
	127-18-4	tetrachloroethene	ND	1000
	79-34-5	1,1,2,2-tetrachloroethane	ND	1700
395	108-88-3	toluene	8800	1500
	108-90-7	chlorobenzene	ND	1500
446	100-41-4	ethylbenzene	4800	1800
	100-42-5	styrene	ND	750
516	95-47-6	total xylenes	31000	1200

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
198	1,2-dichloroethane-d4	87 %
391	Toluene-d8	103 %
485	BFB	117 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-084

Received: 02/24/88 Results by Sample

SAMPLE ID CAR8-02-106 SAMPLE # 15 FRACTIONS: A

Date & Time Collected 02/23/88 Category

BNA_S 02/26/88 (DATE COMPLETED) DRY_WT 27 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-084

Received: 02/24/88

Results by Sample

SAMPLE ID CAR8-02-106 FRACTION 15A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208415A VERIFIED LAK

INSTRMT F2 INJECTD 03/07/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	920
397	108-95-2	phenol	330	140
	62-53-3	aniline	ND	920
	111-44-4	bis(2-chloroethyl) ether	ND	520
	95-57-8	2-chlorophenol	ND	300
	541-73-1	1,3-dichlorobenzene	ND	170
	106-46-7	1,4-dichlorobenzene	ND	400
	100-51-6	benzyl alcohol	ND	4600
	95-50-1	1,2-dichlorobenzene	ND	170
	95-48-7	2-methylphenol	ND	920
	108-60-1	bis(2-chloroisopropyl)ether	ND	520
509	106-44-5	4-methylphenol	540 J	920
	621-64-7	n-nitroso-di-n-propylamine	ND	1100
	67-72-1	hexachloroethane	ND	150
	98-95-3	nitrobenzene	ND	170
	78-59-1	isophorone	ND	200
	88-75-5	2-nitrophenol	ND	330
	105-67-9	2,4-dimethylphenol	ND	250
	65-85-0	benzoic acid	ND	4600
	111-91-1	bis(2-chloroethoxy)methane	ND	480
	120-83-2	2,4-dichlorophenol	ND	250
	120-82-1	1,2,4-trichlorobenzene	ND	170
626	91-20-3	naphthalene	2100	150
	106-47-8	4-chloroaniline	ND	920
	87-68-3	hexachlorobutadiene	ND	82
	59-50-7	4-chloro-3-methylphenol	ND	270
731	91-57-6	2-methylnaphthalene	4000	920

KADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-106

FRACTION 15A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	550
	88-06-2	2,4,6-trichlorophenol	ND	250
	95-95-4	2,4,5-trichlorophenol	ND	920
	91-58-7	2-chloronaphthalene	ND	170
	88-74-4	2-nitroaniline	ND	4600
	131-11-3	dimethyl phthalate	ND	150
	208-96-8	acenaphthylene	ND	320
	99-09-2	3-nitroaniline	ND	4600
	83-32-9	acenaphthene	ND	170
	51-28-5	2,4-dinitrophenol	ND	3800
	100-02-7	4-nitrophenol	ND	220
	132-64-9	dibenzofuran	ND	920
	606-20-2	2,6-dinitrotoluene	ND	170
	121-14-2	2,4-dinitrotoluene	ND	520
	84-66-2	diethylphthalate	ND	170
	7005-72-3	4-chlorophenyl-phenylether	ND	380
	86-73-7	fluorene	ND	170
	100-01-06	4-nitroaniline	ND	4600
	534-52-1	4,6-dinitro-2-methylphenol	ND	2200
	86-30-6	n-nitrosodiphenylamine	ND	170
	101-55-3	4-bromophenyl-phenylether	ND	170
	118-74-1	hexachlorobenzene	ND	170
	87-86-5	pentachlorophenol	ND	330
	85-01-8	phenanthrene	ND	490
	120-12-7	anthracene	ND	170
1222	84-74-2	di-n-butylphthalate	280 B	230
	206-44-0	fluoranthene	ND	200
	92-87-5	benzidine	ND	4000
	129-00-0	pyrene	ND	170
	85-68-7	butylbenzylphthalate	ND	230
	91-94-1	3,3'-dichlorobenzidine	ND	1500
	56-55-3	benzo(a)anthracene	ND	710
1549	117-81-7	bis(2-ethylhexyl)phthalate	280	230

SAMPLE ID CAR8-02-106 FRACTION 15A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	230
1640	117-84-0	di-n-octyl phthalate	100 J	230
	205-99-2	benzo(b)fluoranthene	ND	440
	207-08-9	benzo(k)fluoranthene	ND	230
	50-32-8	benzo(a)pyrene	ND	230
	193-39-5	indeno(1,2,3-cd)pyrene	ND	340
	53-70-3	dibenz(a,h)anthracene	ND	230
	191-24-2	benzo(ghi)perylene	ND	380

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
246	2-fluorophenol	85 %
395	d5-phenol	89 %
519	d5-nitrobenzene	111 %
793	2-fluorobiphenyl	93 %
1009	2,4,6-tribromophenol	108 %
1363	d14-terphenyl	110 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-108

SAMPLE # 16 FRACTIONS: A,B,C

Date & Time Collected 02/23/88 Category

VOA S 02/25/88
date completed

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-084

Received: 02/24/88

Results by Sample

SAMPLE ID CAR8-02-108 FRACTION 16A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208416A

INSTRMT 5100 INJECTD 03/02/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	730
	74-83-9	bromomethane	ND	730
	75-01-4	vinyl chloride	ND	730
	75-00-3	chloroethane	ND	730
	75-09-2	methylene chloride	ND	410
106	67-64-1	acetone	2600 B	1100
	75-15-0	carbon disulfide	ND	250
	75-69-4	trichlorofluoromethane	ND	730
	75-35-4	1,1-dichloroethene	ND	680
	75-34-3	1,1-dichloroethane	ND	410
	156-60-5	trans-1,2-dichloroethene	ND	230
	67-66-3	chloroform	ND	230
	107-06-2	1,2-dichloroethane	ND	410
202	78-93-3	2-butanone	5100 B	3600
	71-55-6	1,1,1-trichloroethane	ND	550
	56-23-5	carbon tetrachloride	ND	410
	108-05-4	vinyl acetate	ND	1000
	75-27-4	bromodichloromethane	ND	320
	78-87-5	1,2-dichloropropane	ND	870
	10061-01-5	cis-1,3-dichloropropene	ND	730
	79-01-6	trichloroethene	ND	280
	124-48-1	dibromochloromethane	ND	450
	79-00-5	1,1,2-trichloroethane	ND	730
	71-43-2	benzene	ND	640
	10061-02-6	trans-1,3-dichloropropene	ND	730
	110-75-8	2-chloroethylvinyl ether	ND	730
	75-25-2	bromoform	ND	680
	591-78-6	2-hexanone	ND	5200

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-108 FRACTION 16A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	6700
	127-18-4	tetrachloroethene	ND	590
	79-34-5	1,1,2,2-tetrachloroethane	ND	1000
395	108-88-3	toluene	7500	870
	108-90-7	chlorobenzene	ND	870
446	100-41-4	ethylbenzene	3600	1000
	100-42-5	styrene	ND	440
516	95-47-6	total xylenes	23000	670

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
200	1,2-dichloroethane-d4	72 %
391	Toluene-d8	99 %
486	BFB	111 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/24/88

Results by Sample

SAMPLE ID CAR8-02-109 SAMPLE # 17 FRACTIONS: A

Date & Time Collected 02/23/88 Category

BNA S 02/26/88 DRY WT 27 EX BNA 02/29/88 GPC 02/29/88

DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-109 FRACTION 17A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD FILE # 0208417A VERIFIED LAK
INSTRMT F2 INJECTD 03/07/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	910
394	108-95-2	phenol	360	140
	62-53-3	aniline	ND	910
	111-44-4	bis(2-chloroethyl) ether	ND	520
	95-57-8	2-chlorophenol	ND	300
	541-73-1	1,3-dichlorobenzene	ND	170
	106-46-7	1,4-dichlorobenzene	ND	400
	100-51-6	benzyl alcohol	ND	4600
	95-50-1	1,2-dichlorobenzene	ND	170
	95-48-7	2-methylphenol	ND	910
	108-60-1	bis(2-chloroisopropyl)ether	ND	520
507	106-44-5	4-methylphenol	760 J	910
	621-64-7	n-nitroso-di-n-propylamine	ND	1100
	67-72-1	hexachloroethane	ND	150
	98-95-3	nitrobenzene	ND	170
	78-59-1	isophorone	ND	200
	88-75-5	2-nitrophenol	ND	330
	105-67-9	2,4-dimethylphenol	ND	250
	65-85-0	benzoic acid	ND	4600
	111-91-1	bis(2-chloroethoxy)methane	ND	480
	120-83-2	2,4-dichlorophenol	ND	250
	120-82-1	1,2,4-trichlorobenzene	ND	170
624	91-20-3	naphthalene	2700	150
	106-47-8	4-chloroaniline	ND	910
	87-68-3	hexachlorobutadiene	ND	82
	59-50-7	4-chloro-3-methylphenol	ND	270
730	91-57-6	2-methylnaphthalene	4800	910

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # 88-02-084
Continued From Above

SAMPLE ID CAR8-02-109

FRACTION 17A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	550
	88-06-2	2,4,6-trichlorophenol	ND	250
	95-95-4	2,4,5-trichlorophenol	ND	910
	91-58-7	2-chloronaphthalene	ND	170
	88-74-4	2-nitroaniline	ND	4600
	131-11-3	dimethyl phthalate	ND	150
	208-96-8	acenaphthylene	ND	320
	99-09-2	3-nitroaniline	ND	4600
	83-32-9	acenaphthene	ND	170
	51-28-5	2,4-dinitrophenol	ND	3800
	100-02-7	4-nitrophenol	ND	220
	132-64-9	dibenzofuran	ND	910
	606-20-2	2,6-dinitrotoluene	ND	170
	121-14-2	2,4-dinitrotoluene	ND	520
	84-66-2	diethylphthalate	ND	170
	7005-72-3	4-chlorophenyl-phenylether	ND	380
	86-73-7	fluorene	ND	170
	100-01-06	4-nitroaniline	ND	4600
	534-52-1	4,6-dinitro-2-methylphenol	ND	2200
	86-30-6	n-nitrosodiphenylamine	ND	170
	101-55-3	4-bromophenyl-phenylether	ND	170
	118-74-1	hexachlorobenzene	ND	170
	87-86-5	pentachlorophenol	ND	330
	85-01-8	phenanthrene	ND	490
	120-12-7	anthracene	ND	170
1221	84-74-2	di-n-butylphthalate	610 B	230
	206-44-0	fluoranthene	ND	200
	92-87-5	benzidine	ND	4000
	129-00-0	pyrene	ND	170
	85-68-7	butylbenzylphthalate	ND	230
	91-94-1	3,3'-dichlorobenzidine	ND	1500
	56-55-3	benzo(a)anthracene	ND	710
1546	117-81-7	bis(2-ethylhexyl)phthalate	330	230

ND = None

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID CAR8-02-109

FRACTION 17A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	230
1637	117-84-0	di-n-octyl phthalate	220 J	230
	205-99-2	benzo(b)fluoranthene	ND	440
	207-08-9	benzo(k)fluoranthene	ND	230
	50-32-8	benzo(a)pyrene	ND	230
	193-39-5	indeno(1,2,3-cd)pyrene	ND	340
	53-70-3	dibenz(a,h)anthracene	ND	230
	191-24-2	benzo(ghi)perylene	ND	370

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
241	2-fluorophenol	91 %
393	d5-phenol	94 %
517	d5-nitrobenzene	123 QC %
792	2-fluorobiphenyl	98 %
1008	2,4,6-tribromophenol	115 %
1362	d14-terphenyl	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/24/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID CAR8-02-111

SAMPLE # 18 FRACTIONS: A,B,C
Date & Time Collected 02/23/88 Category

VOA S 02/25/88
date completed

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-084

SAMPLE ID CAR8-02-111

FRACTION 18A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

ANALYST RY EXTRCTD FILE # 0208418A VERIFIED LAK
INSTRMT F4 INJECTD 03/07/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	740
	74-83-9	bromomethane	ND	740
	75-01-4	vinyl chloride	ND	740
	75-00-3	chloroethane	ND	740
	75-09-2	methylene chloride	ND	410
150	67-64-1	acetone	2500 B	1100
	75-15-0	carbon disulfide	ND	250
	75-69-4	trichlorofluoromethane	ND	740
	75-35-4	1,1-dichloroethene	ND	690
	75-34-3	1,1-dichloroethane	ND	410
	156-60-5	trans-1,2-dichloroethene	ND	240
	67-66-3	chloroform	ND	240
	107-06-2	1,2-dichloroethane	ND	410
231	78-93-3	2-butanone	8000 B	3700
	71-55-6	1,1,1-trichloroethane	ND	560
	56-23-5	carbon tetrachloride	ND	410
	108-05-4	vinyl acetate	ND	1000
	75-27-4	bromodichloromethane	ND	320
	78-87-5	1,2-dichloropropane	ND	880
	10061-01-5	cis-1,3-dichloropropene	ND	740
	79-01-6	trichloroethene	ND	280
	124-48-1	dibromochloromethane	ND	460
	79-00-5	1,1,2-trichloroethane	ND	740
	71-43-2	benzene	ND	650
	10061-02-6	trans-1,3-dichloropropene	ND	740
	110-75-8	2-chloroethylvinyl ether	ND	740
	75-25-2	bromoform	ND	690
	591-78-6	2-hexanone	ND	5300

SAMPLE ID CAR8-02-111 FRACTION 18A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	6800
	127-18-4	tetrachloroethene	ND	600
	79-34-5	1,1,2,2-tetrachloroethane	ND	1000
410	108-88-3	toluene	1900	880
	108-90-7	chlorobenzene	ND	880
466	100-41-4	ethylbenzene	1100 J	1100
	100-42-5	styrene	ND	440
556	95-47-6	total xylenes	6400	680

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	92 %
407	Toluene-d8	100 %
516	BFB	103 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID REAGENT BLANK VOA FRACTION 19A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208419A
INSTRMT F4 INJECTD 02/28/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
	75-09-2	methylene chloride	ND	2.8
142	67-64-1	acetone	11	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID REAGENT BLANK VOA

FRACTION 19B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

ANALYST RY EXTRCTD FILE # 5EB0306V000 VERIFIED LAK
INSTRMT 5100 INJECTD 03/06/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	630
	74-83-9	bromomethane	ND	630
	75-01-4	vinyl chloride	ND	630
	75-00-3	chloroethane	ND	630
	75-09-2	methylene chloride	ND	350
115	67-64-1	acetone	300 J	940
	75-15-0	carbon disulfide	ND	210
	75-69-4	trichlorofluoromethane	ND	630
	75-35-4	1,1-dichloroethene	ND	590
	75-34-3	1,1-dichloroethane	ND	350
	156-60-5	trans-1,2-dichloroethene	ND	200
	67-66-3	chloroform	ND	200
	107-06-2	1,2-dichloroethane	ND	350
206	78-93-3	2-butanone	3500	3100
	71-55-6	1,1,1-trichloroethane	ND	480
	56-23-5	carbon tetrachloride	ND	350
	108-05-4	vinyl acetate	ND	860
	75-27-4	bromodichloromethane	ND	280
	78-87-5	1,2-dichloropropane	ND	750
	10061-01-5	cis-1,3-dichloropropene	ND	630
	79-01-6	trichloroethene	ND	240
	124-48-1	dibromochloromethane	ND	390
	79-00-5	1,1,2-trichloroethane	ND	630
	71-43-2	benzene	ND	550
	10061-02-6	trans-1,3-dichloropropene	ND	630
	110-75-8	2-chloroethylvinyl ether	ND	630
	75-25-2	bromoform	ND	590
	591-78-6	2-hexanone	ND	4500

SAMPLE ID REAGENT BLANK VOA FRACTION 19A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	92 %
407	Toluene-d8	100 %
516	BFB	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID REAGENT BLANK VOA FRACTION 19B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	5800
	127-18-4	tetrachloroethene	ND	510
	79-34-5	1,1,2,2-tetrachloroethane	ND	860
	108-88-3	toluene	ND	750
	108-90-7	chlorobenzene	ND	750
	100-41-4	ethylbenzene	ND	900
	100-42-5	styrene	ND	380
	95-47-6	total xylenes	ND	580

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
203	1,2-dichloroethane-d4	106 %
392	Toluene-d8	112 %
486	BFB	107 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID REAGENT BLANK VOA

FRACTION 19C TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 4EB0307V002
INSTRMT F4 INJECTD 03/07/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	630
	74-83-9	bromomethane	ND	630
	75-01-4	vinyl chloride	ND	630
	75-00-3	chloroethane	ND	630
137	75-09-2	methylene chloride	390	350
151	67-64-1	acetone	2900	940
	75-15-0	carbon disulfide	ND	210
	75-69-4	trichlorofluoromethane	ND	630
	75-35-4	1,1-dichloroethene	ND	590
	75-34-3	1,1-dichloroethane	ND	350
	156-60-5	trans-1,2-dichloroethene	ND	200
	67-66-3	chloroform	ND	200
	107-06-2	1,2-dichloroethane	ND	350
231	78-93-3	2-butanone	19000	3100
	71-55-6	1,1,1-trichloroethane	ND	480
	56-23-5	carbon tetrachloride	ND	350
	108-05-4	vinyl acetate	ND	860
	75-27-4	bromodichloromethane	ND	280
	78-87-5	1,2-dichloropropane	ND	750
	10061-01-5	cis-1,3-dichloropropene	ND	630
	79-01-6	trichloroethene	ND	240
	124-48-1	dibromochloromethane	ND	390
	79-00-5	1,1,2-trichloroethane	ND	630
	71-43-2	benzene	ND	550
	10061-02-6	trans-1,3-dichloropropene	ND	630
	110-75-8	2-chloroethylvinyl ether	ND	630
	75-25-2	bromoform	ND	590
	591-78-6	2-hexanone	ND	4500

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084
Continued From Above

SAMPLE ID REAGENT BLANK VOA FRACTION 19C TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	5800
	127-18-4	tetrachloroethene	ND	510
	79-34-5	1,1,2,2-tetrachloroethane	ND	860
	108-88-3	toluene	ND	750
	108-90-7	chlorobenzene	ND	750
	100-41-4	ethylbenzene	ND	900
	100-42-5	styrene	ND	380
	95-47-6	total xylenes	ND	580

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	93 %
407	Toluene-d8	98 %
516	BFB	99 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/24/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-084

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 20 FRACTIONS: A

Date & Time Collected not specified Category

EX_BNA 02/29/88 GPC 02/29/88
DATE COMPLETED DATE COMPLETED

SAMPLE ID REAGENT BLANK BNA FRACTION 20A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208420A VERIFIED LAK
INSTRMT F2 INJECTD 03/03/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

SAMPLE ID REAGENT BLANK BNA FRACTION 20A TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
1219	84-74-2	di-n-butylphthalate	190	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
	117-81-7	bis(2-ethylhexyl)phthalate	ND	170

SAMPLE ID REAGENT BLANK BNA FRACTION 20A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
235	2-fluorophenol	81 %
389	d5-phenol	78 %
516	d5-nitrobenzene	79 %
791	2-fluorobiphenyl	72 %
1007	2,4,6-tribromophenol	72 %
1360	d14-terphenyl	73 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C	!	DUP624
03C	!	DUP624
05C	!	DUP624
07C	!	DUP624
09C	!	DUP624
11C	!	DUP624
12C	!	DUP624
14C	!	DUP624
16C	!	DUP624
18C	!	DUP624

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-085

Received: 02/24/88 03/17/88 09:20:29

REPORT TO
Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN Larry French

CLIENT CARSWELL AFB SAMPLES 7
COMPANY Carswell AFB.
FACILITY Headquarters, SAC
Offutt, Nebraska 68113

WORK ID Cont. from S8-02-084
TAKEN 02/23/88
TRANS Federal 5910117920
TYPE Soil-8240/8270
P. O. # 227-005-04-40
INVOICE under separate cover

PREPARED BY
Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN
PHONE 916-362-5332

Lucas Petkovsek
CERTIFIED BY

CONTACT LARRY FRENCH

SAMPLE IDENTIFICATION

01	CAR8-02-112
02	CAR8-02-114
03	CAR8-02-115
04	CAR8-02-117
05	CAR8-02-118
06	REAGENT BLANK BNA
07	REAGENT BLANK VOA

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-085

Received: 02/24/88

Results By Test

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed	02/26/88 DATE COMPLETED		02/26/88 DATE COMPLETED		02/26/88 DATE COMPLETED
DRY_WT % moisture	25 % MOISTURE		27 % MOISTURE		16 % MOISTURE
EX_BNA date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
GPC date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
VOA_S date completed		02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED	

TEST CODE default units	Sample 06 (entered units)
EX_BNA date completed	02/29/88 DATE COMPLETED
GPC date completed	02/29/88 DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-085

Received: 02/24/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR8-02-112	02/26/88 DATE COMPLETED	25 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
02 CAR8-02-114					02/25/88 DATE COMPLETED
03 CAR8-02-115	02/26/88 DATE COMPLETED	27 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
04 CAR8-02-117					02/25/88 DATE COMPLETED
05 CAR8-02-118	02/26/88 DATE COMPLETED	16 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
06 REAGENT BLANK B			02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085

SAMPLE ID CAR8-02-112 SAMPLE # 01 FRACTIONS: A
Date & Time Collected 02/23/88 Category

BNA_S 02/26/88 DRY_WT 25 EX_BNA 02/29/88 GPC 02/29/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085

SAMPLE ID CAR8-02-112 FRACTION 01A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208501R VERIFIED LAK
INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	890
	108-95-2	phenol	ND	130
	62-53-3	aniline	ND	890
	111-44-4	bis(2-chloroethyl) ether	ND	510
	95-57-8	2-chlorophenol	ND	290
	541-73-1	1,3-dichlorobenzene	ND	170
	106-46-7	1,4-dichlorobenzene	ND	390
	100-51-6	benzyl alcohol	ND	4400
	95-50-1	1,2-dichlorobenzene	ND	170
	95-48-7	2-methylphenol	ND	890
	108-60-1	bis(2-chloroisopropyl)ether	ND	510
	106-44-5	4-methylphenol	ND	890
	621-64-7	n-nitroso-di-n-propylamine	ND	1100
	67-72-1	hexachloroethane	ND	140
	98-95-3	nitrobenzene	ND	170
	78-59-1	isophorone	ND	200
	88-75-5	2-nitrophenol	ND	320
	105-67-9	2,4-dimethylphenol	ND	240
	65-85-0	benzoic acid	ND	4400
	111-91-1	bis(2-chloroethoxy)methane	ND	470
	120-83-2	2,4-dichlorophenol	ND	240
	120-82-1	1,2,4-trichlorobenzene	ND	170
748	91-20-3	naphthalene	310	140
	106-47-8	4-chloroaniline	ND	890
	87-68-3	hexachlorobutadiene	ND	80
	59-50-7	4-chloro-3-methylphenol	ND	270
853	91-57-6	2-methylnaphthalene	660 J	890

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085
Continued From Above

SAMPLE ID CAR8-02-112 FRACTION 01A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	530
	88-06-2	2,4,6-trichlorophenol	ND	240
	95-95-4	2,4,5-trichlorophenol	ND	890
	91-58-7	2-chloronaphthalene	ND	170
	88-74-4	2-nitroaniline	ND	4400
	131-11-3	dimethyl phthalate	ND	140
	208-96-8	acenaphthylene	ND	310
	99-09-2	3-nitroaniline	ND	4400
	83-32-9	acenaphthene	ND	170
	51-28-5	2,4-dinitrophenol	ND	3700
	100-02-7	4-nitrophenol	ND	210
	132-64-9	dibenzofuran	ND	890
	606-20-2	2,6-dinitrotoluene	ND	170
	121-14-2	2,4-dinitrotoluene	ND	510
	84-66-2	diethylphthalate	ND	170
	7005-72-3	4-chlorophenyl-phenylether	ND	370
	86-73-7	fluorene	ND	170
	100-01-06	4-nitroaniline	ND	4400
	534-52-1	4,6-dinitro-2-methylphenol	ND	2100
	86-30-6	n-nitrosodiphenylamine	ND	170
	101-55-3	4-bromophenyl-phenylether	ND	170
	118-74-1	hexachlorobenzene	ND	170
	87-86-5	pentachlorophenol	ND	320
	85-01-8	phenanthrene	ND	480
	120-12-7	anthracene	ND	170
	84-74-2	di-n-butylphthalate	ND	220
	206-44-0	fluoranthene	ND	200
	92-87-5	benzidine	ND	3900
	129-00-0	pyrene	ND	170
	85-68-7	butylbenzylphthalate	ND	220
	91-94-1	3,3'-dichlorobenzidine	ND	1500
	56-55-3	benzo(a)anthracene	ND	690
1661	117-81-7	bis(2-ethylhexyl)phthalate	1100 B	220

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-085
Continued From Above

SAMPLE ID CAR8-02-112 FRACTION 01A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	220
1775	117-84-0	di-n-octyl phthalate	140 BJ	220
	205-99-2	benzo(b)fluoranthene	ND	430
	207-08-9	benzo(k)fluoranthene	ND	220
	50-32-8	benzo(a)pyrene	ND	220
	193-39-5	indeno(1,2,3-cd)pyrene	ND	330
	53-70-3	dibenz(a,h)anthracene	ND	220
	191-24-2	benzo(ghi)perylene	ND	360

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
392	2-fluorophenol	97 %
517	d5-phenol	91 %
641	d5-nitrobenzene	99 %
912	2-fluorobiphenyl	96 %
1135	2,4,6-tribromophenol	89 %
1487	d14-terphenyl	89 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085

SAMPLE ID CAR8-02-114

SAMPLE # 02 FRACTIONS: A,B,C
Date & Time Collected 02/23/88 Category

VOA S 02/25/88
DATE COMPLETED

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085

SAMPLE ID CAR8-02-114 FRACTION 02A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208502A
INSTRMT 5100 INJECTD 03/02/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	740
	74-83-9	bromomethane	ND	740
	75-01-4	vinyl chloride	ND	740
	75-00-3	chloroethane	ND	740
	75-09-2	methylene chloride	ND	410
108	67-64-1	acetone	11000 B	1100
	75-15-0	carbon disulfide	ND	250
	75-69-4	trichlorofluoromethane	ND	740
	75-35-4	1,1-dichloroethene	ND	690
	75-34-3	1,1-dichloroethane	ND	410
	156-60-5	trans-1,2-dichloroethene	ND	240
	67-66-3	chloroform	ND	240
	107-06-2	1,2-dichloroethane	ND	410
203	78-93-3	2-butanone	5700 B	3700
	71-55-6	1,1,1-trichloroethane	ND	560
	56-23-5	carbon tetrachloride	ND	410
	108-05-4	vinyl acetate	ND	1000
	75-27-4	bromodichloromethane	ND	320
	78-87-5	1,2-dichloropropane	ND	880
	10061-01-5	cis-1,3-dichloropropene	ND	740
	79-01-6	trichloroethene	ND	280
	124-48-1	dibromochloromethane	ND	460
	79-00-5	1,1,2-trichloroethane	ND	740
	71-43-2	benzene	ND	650
	10061-02-6	trans-1,3-dichloropropene	ND	740
	110-75-8	2-chloroethylvinyl ether	ND	740
	75-25-2	bromoform	ND	690
	591-78-6	2-hexanone	ND	5300

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085
Continued From Above

SAMPLE ID CAR8-02-114 FRACTION 02A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	6800
	127-18-4	tetrachloroethene	ND	600
	79-34-5	1,1,2,2-tetrachloroethane	ND	1000
395	108-88-3	toluene	240 J	880
	108-90-7	chlorobenzene	ND	880
446	100-41-4	ethylbenzene	890 J	1100
	100-42-5	styrene	ND	440
515	95-47-6	total xylenes	4000	680

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
201	1,2-dichloroethane-d4	113 %
391	Toluene-d8	108 %
485	BFB	112 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085

SAMPLE ID CAR8-02-115 SAMPLE # 03 FRACTIONS: A
Date & Time Collected 02/23/88 Category

BNA_S 02/26/88 (DATE COMPLETED) DRY_WT 27 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-085

Received: 02/24/88 Results by Sample

SAMPLE ID CAR8-02-115 FRACTION 03A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208503A VERIFIED LAK

INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	920
	108-95-2	phenol	ND	140
	62-53-3	aniline	ND	920
	111-44-4	bis(2-chloroethyl) ether	ND	520
	95-57-8	2-chlorophenol	ND	300
	541-73-1	1,3-dichlorobenzene	ND	170
	106-46-7	1,4-dichlorobenzene	ND	400
	100-51-6	benzyl alcohol	ND	4600
	95-50-1	1,2-dichlorobenzene	ND	170
	95-48-7	2-methylphenol	ND	920
	108-60-1	bis(2-chloroisopropyl)ether	ND	520
	106-44-5	4-methylphenol	ND	920
	621-64-7	n-nitroso-di-n-propylamine	ND	1100
	67-72-1	hexachloroethane	ND	150
	98-95-3	nitrobenzene	ND	170
	78-59-1	isophorone	ND	200
	88-75-5	2-nitrophenol	ND	330
	105-67-9	2,4-dimethylphenol	ND	250
	65-85-0	benzoic acid	ND	4600
	111-91-1	bis(2-chloroethoxy)methane	ND	490
	120-83-2	2,4-dichlorophenol	ND	250
	120-82-1	1,2,4-trichlorobenzene	ND	170
748	91-20-3	naphthalene	370	150
	106-47-8	4-chloroaniline	ND	920
	87-68-3	hexachlorobutadiene	ND	83
	59-50-7	4-chloro-3-methylphenol	ND	280
852	91-57-6	2-methylnaphthalene	950	920

SAMPLE ID CAR8-02-115 FRACTION 03A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	550
	88-06-2	2,4,6-trichlorophenol	ND	250
	95-95-4	2,4,5-trichlorophenol	ND	920
	91-58-7	2-chloronaphthalene	ND	170
	88-74-4	2-nitroaniline	ND	4600
	131-11-3	dimethyl phthalate	ND	150
	208-96-8	acenaphthylene	ND	320
	99-09-2	3-nitroaniline	ND	4600
	83-32-9	acenaphthene	ND	170
	51-28-5	2,4-dinitrophenol	ND	3900
	100-02-7	4-nitrophenol	ND	220
	132-64-9	dibenzofuran	ND	920
	606-20-2	2,6-dinitrotoluene	ND	170
	121-14-2	2,4-dinitrotoluene	ND	520
	84-66-2	diethylphthalate	ND	170
	7005-72-3	4-chlorophenyl-phenylether	ND	390
	86-73-7	fluorene	ND	170
	100-01-06	4-nitroaniline	ND	4600
	534-52-1	4,6-dinitro-2-methylphenol	ND	2200
	86-30-6	n-nitrosodiphenylamine	ND	170
	101-55-3	4-bromophenyl-phenylether	ND	170
	118-74-1	hexachlorobenzene	ND	170
	87-86-5	pentachlorophenol	ND	330
	85-01-8	phenanthrene	ND	500
	120-12-7	anthracene	ND	170
	84-74-2	di-n-butylphthalate	ND	230
	206-44-0	fluoranthene	ND	200
	92-87-5	benzidine	ND	4000
	129-00-0	pyrene	ND	170
	85-68-7	butylbenzylphthalate	ND	230
	91-94-1	3,3'-dichlorobenzidine	ND	1500
	56-55-3	benzo(a)anthracene	ND	720
1659	117-81-7	bis(2-ethylhexyl)phthalate	1400 B	230

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085
Continued From Above

SAMPLE ID CAR8-02-115 FRACTION 03A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	230
	117-84-0	di-n-octyl phthalate	ND	230
	205-99-2	benzo(b)fluoranthene	ND	440
	207-08-9	benzo(k)fluoranthene	ND	230
	50-32-8	benzo(a)pyrene	ND	230
	193-39-5	indeno(1,2,3-cd)pyrene	ND	340
	53-70-3	dibenz(a,h)anthracene	ND	230
	191-24-2	benzo(ghi)perylene	ND	380

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
397	2-fluorophenol	99 %
519	d5-phenol	86 %
642	d5-nitrobenzene	98 %
911	2-fluorobiphenyl	97 %
1133	2,4,6-tribromophenol	95 %
1485	d14-terphenyl	107 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085

SAMPLE ID CAR8-02-117

SAMPLE # 04 FRACTIONS: A,B,C
Date & Time Collected 02/23/88 Category

VOA_S 02/25/88
DATE COMPLETED

Received: 02/24/88 Results by Sample

SAMPLE ID CAR8-02-117 FRACTION 04A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 0208504R

INSTRMT 5100 INJECTD 03/06/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	3100
	74-83-9	bromomethane	ND	3100
	75-01-4	vinyl chloride	ND	3100
	75-00-3	chloroethane	ND	3100
	75-09-2	methylene chloride	ND	1800
105	67-64-1	acetone	870 BJ	4700
	75-15-0	carbon disulfide	ND	1100
	75-69-4	trichlorofluoromethane	ND	3100
	75-35-4	1,1-dichloroethene	ND	2900
	75-34-3	1,1-dichloroethane	ND	1800
	156-60-5	trans-1,2-dichloroethene	ND	1000
	67-66-3	chloroform	ND	1000
	107-06-2	1,2-dichloroethane	ND	1800
	78-93-3	2-butanone	ND	16000
	71-55-6	1,1,1-trichloroethane	ND	2400
	56-23-5	carbon tetrachloride	ND	1800
	108-05-4	vinyl acetate	ND	4300
	75-27-4	bromodichloromethane	ND	1400
	78-87-5	1,2-dichloropropane	ND	3800
	10061-01-5	cis-1,3-dichloropropene	ND	3100
	79-01-6	trichloroethene	ND	1200
	124-48-1	dibromochloromethane	ND	1900
	79-00-5	1,1,2-trichloroethane	ND	3100
	71-43-2	benzene	ND	2800
	10061-02-6	trans-1,3-dichloropropene	ND	3100
	110-75-8	2-chloroethylvinyl ether	ND	3100
	75-25-2	bromoform	ND	2900
	591-78-6	2-hexanone	ND	23000

SAMPLE ID CAR8-02-117 FRACTION 04A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	29000
	127-18-4	tetrachloroethene	ND	2600
370	79-34-5	1,1,2,2-tetrachloroethane	1300 J	4300
395	108-88-3	toluene	3700 J	3800
	108-90-7	chlorobenzene	ND	3800
446	100-41-4	ethylbenzene	5000	4500
	100-42-5	styrene	ND	1900
516	95-47-6	total xylenes	32000	2900

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
203	1,2-dichloroethane-d4	113 %
392	Toluene-d8	116 %
486	BFB	118 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085

SAMPLE ID CAR8-02-118 SAMPLE # 05 FRACTIONS: A
Date & Time Collected 02/23/88 Category

BNA_S 02/26/88 (DATE COMPLETED) DRY_WT 16 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

Received: 02/24/88 Results by Sample

SAMPLE ID CAR8-02-118 FRACTION 05A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 02/23/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208505A VERIFIED LAK

INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	7600
	108-95-2	phenol	ND	1100
	62-53-3	aniline	ND	7600
	111-44-4	bis(2-chloroethyl) ether	ND	4300
	95-57-8	2-chlorophenol	ND	2500
	541-73-1	1,3-dichlorobenzene	ND	1400
	106-46-7	1,4-dichlorobenzene	ND	3300
	100-51-6	benzyl alcohol	ND	38000
	95-50-1	1,2-dichlorobenzene	ND	1400
	95-48-7	2-methylphenol	ND	7600
	108-60-1	bis(2-chloroisopropyl)ether	ND	4300
	106-44-5	4-methylphenol	ND	7600
	621-64-7	n-nitroso-di-n-propylamine	ND	9100
	67-72-1	hexachloroethane	ND	1200
	98-95-3	nitrobenzene	ND	1400
	78-59-1	isophorone	ND	1700
	88-75-5	2-nitrophenol	ND	2700
	105-67-9	2,4-dimethylphenol	ND	2000
	65-85-0	benzoic acid	ND	38000
	111-91-1	bis(2-chloroethoxy)methane	ND	4000
	120-83-2	2,4-dichlorophenol	ND	2000
	120-82-1	1,2,4-trichlorobenzene	ND	1400
748	91-20-3	naphthalene	4700	1200
	106-47-8	4-chloroaniline	ND	7600
	87-68-3	hexachlorobutadiene	ND	680
	59-50-7	4-chloro-3-methylphenol	ND	2300
852	91-57-6	2-methylnaphthalene	11000	7600

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085
Continued From Above

SAMPLE ID CAR8-02-118 FRACTION 05A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	4500
	88-06-2	2,4,6-trichlorophenol	ND	2000
	95-95-4	2,4,5-trichlorophenol	ND	7600
	91-58-7	2-chloronaphthalene	ND	1400
	88-74-4	2-nitroaniline	ND	38000
	131-11-3	dimethyl phthalate	ND	1200
	208-96-8	acenaphthylene	ND	2600
	99-09-2	3-nitroaniline	ND	38000
	83-32-9	acenaphthene	ND	1400
	51-28-5	2,4-dinitrophenol	ND	32000
	100-02-7	4-nitrophenol	ND	1800
	132-64-9	dibenzofuran	ND	7600
	606-20-2	2,6-dinitrotoluene	ND	1400
	121-14-2	2,4-dinitrotoluene	ND	4300
	84-66-2	diethylphthalate	ND	1400
	7005-72-3	4-chlorophenyl-phenylether	ND	3200
	86-73-7	fluorene	ND	1400
	100-01-06	4-nitroaniline	ND	38000
	534-52-1	4,6-dinitro-2-methylphenol	ND	18000
	86-30-6	n-nitrosodiphenylamine	ND	1400
	101-55-3	4-bromophenyl-phenylether	ND	1400
	118-74-1	hexachlorobenzene	ND	1400
	87-86-5	pentachlorophenol	ND	2700
	85-01-8	phenanthrene	ND	4100
	120-12-7	anthracene	ND	1400
	84-74-2	di-n-butylphthalate	ND	1900
	206-44-0	fluoranthene	ND	1700
	92-87-5	benzidine	ND	33000
	129-00-0	pyrene	ND	1400
	85-68-7	butylbenzylphthalate	ND	1900
	91-94-1	3,3'-dichlorobenzidine	ND	12000
	56-55-3	benzo(a)anthracene	ND	5900
1661	117-81-7	bis(2-ethylhexyl)phthalate	12000 B	1900

SAMPLE ID CAR8-02-118 FRACTION 05A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/23/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	1900
	117-84-0	di-n-octyl phthalate	ND	1900
	205-99-2	benzo(b)fluoranthene	ND	3600
	207-08-9	benzo(k)fluoranthene	ND	1900
	50-32-8	benzo(a)pyrene	ND	1900
	193-39-5	indeno(1,2,3-cd)pyrene	ND	2800
	53-70-3	dibenz(a,h)anthracene	ND	1900
	191-24-2	benzo(ghi)perylene	ND	3100

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
393	2-fluorophenol	105 %
518	d5-phenol	98 %
641	d5-nitrobenzene	107 %
912	2-fluorobiphenyl	97 %
1134	2,4,6-tribromophenol	95 %
1487	d14-terphenyl	103 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 06 FRACTIONS: A
Date & Time Collected not specified Category

EX_BNA 02/29/88 GPC 02/29/88
DATE COMPLETED DATE COMPLETED

SAMPLE ID REAGENT BLANK BNA FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208506A VERIFIED LAK
INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

RADIAN CORPORATION

Received: 02/24/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-085
Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1660	117-81-7	bis(2-ethylhexyl)phthalate	470	170

SAMPLE ID REAGENT BLANK BNA FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
1776	117-84-0	di-n-octyl phthalate	75 J	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
403	2-fluorophenol	103 %
522	d5-phenol	86 %
644	d5-nitrobenzene	103 %
912	2-fluorobiphenyl	101 %
1134	2,4,6-tribromophenol	92 %
1487	d14-terphenyl	92 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-085

Received: 02/24/88 Results by Sample

SAMPLE ID REAGENT BLANK VOA FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208818A

INSTRMT 5100 INJECTD 03/02/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	630
	74-83-9	bromomethane	ND	630
	75-01-4	vinyl chloride	ND	630
	75-00-3	chloroethane	ND	630
	75-09-2	methylene chloride	ND	350
114	67-64-1	acetone	3700	940
	75-15-0	carbon disulfide	ND	210
	75-69-4	trichlorofluoromethane	ND	630
	75-35-4	1,1-dichloroethene	ND	590
	75-34-3	1,1-dichloroethane	ND	350
	156-60-5	trans-1,2-dichloroethene	ND	200
	67-66-3	chloroform	ND	200
	107-06-2	1,2-dichloroethane	ND	350
205	78-93-3	2-butanone	5200	3100
	71-55-6	1,1,1-trichloroethane	ND	480
	56-23-5	carbon tetrachloride	ND	350
	108-05-4	vinyl acetate	ND	860
	75-27-4	bromodichloromethane	ND	280
	78-87-5	1,2-dichloropropane	ND	750
	10061-01-5	cis-1,3-dichloropropene	ND	630
	79-01-6	trichloroethene	ND	240
	124-48-1	dibromochloromethane	ND	390
	79-00-5	1,1,2-trichloroethane	ND	630
	71-43-2	benzene	ND	550
	10061-02-6	trans-1,3-dichloropropene	ND	630
	110-75-8	2-chloroethylvinyl ether	ND	630
	75-25-2	bromoform	ND	590
	591-78-6	2-hexanone	ND	4500

SAMPLE ID REAGENT BLANK VOA FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	5800
	127-18-4	tetrachloroethene	ND	510
	79-34-5	1,1,2,2-tetrachloroethane	ND	860
	108-88-3	toluene	ND	750
	108-90-7	chlorobenzene	ND	750
	100-41-4	ethylbenzene	ND	900
	100-42-5	styrene	ND	380
	95-47-6	total xylenes	ND	580

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
202	1,2-dichloroethane-d4	96 %
391	Toluene-d8	104 %
485	BFB	112 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-085

Received: 02/24/88 Results by Sample

SAMPLE ID REAGENT BLANK VOA FRACTION 07B TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST RY EXTRCTD FILE # 5EB0306V

INSTRMT 5100 INJECTD 03/06/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	630
	74-83-9	bromomethane	ND	630
	75-01-4	vinyl chloride	ND	630
	75-00-3	chloroethane	ND	630
	75-09-2	methylene chloride	ND	350
115	67-64-1	acetone	300 J	940
	75-15-0	carbon disulfide	ND	210
	75-69-4	trichlorofluoromethane	ND	630
	75-35-4	1,1-dichloroethene	ND	590
	75-34-3	1,1-dichloroethane	ND	350
	156-60-5	trans-1,2-dichloroethene	ND	200
	67-66-3	chloroform	ND	200
	107-06-2	1,2-dichloroethane	ND	350
206	78-93-3	2-butanone	3500	3100
	71-55-6	1,1,1-trichloroethane	ND	480
	56-23-5	carbon tetrachloride	ND	350
	108-05-4	vinyl acetate	ND	860
	75-27-4	bromodichloromethane	ND	280
	78-87-5	1,2-dichloropropane	ND	750
	10061-01-5	cis-1,3-dichloropropene	ND	630
	79-01-6	trichloroethene	ND	240
	124-48-1	dibromochloromethane	ND	390
	79-00-5	1,1,2-trichloroethane	ND	630
	71-43-2	benzene	ND	550
	10061-02-6	trans-1,3-dichloropropene	ND	630
	110-75-8	2-chloroethylvinyl ether	ND	630
	75-25-2	bromoform	ND	590
	591-78-6	2-hexanone	ND	4500

SAMPLE ID REAGENT BLANK VOA FRACTION 07B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	5800
	127-18-4	tetrachloroethene	ND	510
	79-34-5	1,1,2,2-tetrachloroethane	ND	860
	108-88-3	toluene	ND	750
	108-90-7	chlorobenzene	ND	750
	100-41-4	ethylbenzene	ND	900
	100-42-5	styrene	ND	380
	95-47-6	total xylenes	ND	580

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
203	1,2-dichloroethane-d4	106 %
392	Toluene-d8	112 %
486	BFB	107 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

02C | DUP624
04C | DUP624

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-088

Received: 02/25/88

03/30/88 14:40:50

REPORT TO
Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN Larry French

CLIENT CARSWELL AFB SAMPLES 18
COMPANY Carswell AFB.
FACILITY Headquarters, SAC
Offutt, Nebraska 68113

WORK ID Stage II Site 12
TAKEN 02/24/88
TRANS Federal 5910117931
TYPE Soil-8240/8270
P.O. # 227-005-04-40
INVOICE under separate cover

PREPARED BY
Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN

PHONE 916-362-5332

Paul H Hale
CERTIFIED BY

CONTACT LARRY FRENCH

SAMPLE IDENTIFICATION

01 CAR8-02-120
02 CAR8-02-121
03 CAR8-02-123
04 CAR8-02-124
05 CAR8-02-126
06 CAR8-02-127
07 CAR8-02-129
08 CAR8-02-130
09 CAR8-02-132
10 CAR8-02-133
11 CAR8-02-135
12 CAR8-02-136
13 CAR8-02-138
14 CAR8-02-139
15 CAR8-02-139 MATRIX SPIKE
15 CAR8-02-139 MS DUP
16 REAGENT BLANK BNA
17 CAR8-02-138 MATRIX SPIKE
17 CAR8-02-138 MS DUP
18 REAGENT BLANK VOA

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed		02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED	
DRY_WT % moisture		16 % MOISTURE		15 % MOISTURE	
EX_BNA date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	
GPC date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	
VOA_S date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED

TEST CODE default units	Sample 06 (entered units)	Sample 07 (entered units)	Sample 08 (entered units)	Sample 09 (entered units)	Sample 10 (entered units)
BNA_S date completed	02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED
DRY_WT % moisture	4 % MOISTURE		15 % MOISTURE		14 % MOISTURE
EX_BNA date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
GPC date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED
VOA_S date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results By Test

Work Order # 88-02-088

TEST CODE default units	Sample 11 (entered units)	Sample 12 (entered units)	Sample 13 (entered units)	Sample 14 (entered units)	Sample 15 (entered units)
BNA_S date completed		02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED	
DRY_WT % moisture		17 % MOISTURE		4 % MOISTURE	
EX_BNA date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED
GPC date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED
VOA_S date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		

TEST CODE default units	Sample 16 (entered units)
EX_BNA date completed	02/29/88 DATE COMPLETED
GPC date completed	02/29/88 DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-088

Received: 02/25/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR8-02-120					02/29/88 DATE COMPLETED
02 CAR8-02-121	02/25/88 DATE COMPLETED	16 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
03 CAR8-02-123					02/29/88 DATE COMPLETED
04 CAR8-02-124	02/25/88 DATE COMPLETED	15 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
05 CAR8-02-126					02/29/88 DATE COMPLETED
06 CAR8-02-127	02/25/88 DATE COMPLETED	4 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
07 CAR8-02-129					02/29/88 DATE COMPLETED
08 CAR8-02-130	02/25/88 DATE COMPLETED	15 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
09 CAR8-02-132					02/29/88 DATE COMPLETED
10 CAR8-02-133	02/25/88 DATE COMPLETED	14 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
11 CAR8-02-135					02/29/88 DATE COMPLETED
12 CAR8-02-136	02/25/88 DATE COMPLETED	17 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
13 CAR8-02-138					02/29/88 DATE COMPLETED
14 CAR8-02-139	02/25/88 DATE COMPLETED	4 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	

Received: 02/25/88

RAS Sacramento REPORT
Results By Test

Work Order # 88-02-088
Continued From Above

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
15 CARB-02-139 MAT			02/29/88 DATE COMPLETED 02/29/88 DATE COMPLETED		
16 REAGENT BLANK B			02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-120

SAMPLE # 01 FRACTIONS: A, B, C

Date & Time Collected 02/24/88

Category

VOA_S 02/29/88
DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-088

Received: 02/25/88

Results by Sample

SAMPLE ID CAR8-02-120 FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208801A

INSTRMT 5100 INJECTD 03/02/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	730
	74-83-9	bromomethane	ND	730
	75-01-4	vinyl chloride	ND	730
	75-00-3	chloroethane	ND	730
	75-09-2	methylene chloride	ND	410
111	67-64-1	acetone	8200 B	1100
	75-15-0	carbon disulfide	ND	250
	75-69-4	trichlorofluoromethane	ND	730
	75-35-4	1,1-dichloroethene	ND	680
	75-34-3	1,1-dichloroethane	ND	410
	156-60-5	trans-1,2-dichloroethene	ND	230
	67-66-3	chloroform	ND	230
	107-06-2	1,2-dichloroethane	ND	410
204	78-93-3	2-butanone	5000 B	3600
	71-55-6	1,1,1-trichloroethane	ND	550
	56-23-5	carbon tetrachloride	ND	410
	108-05-4	vinyl acetate	ND	1000
	75-27-4	bromodichloromethane	ND	320
	78-87-5	1,2-dichloropropane	ND	870
	10061-01-5	cis-1,3-dichloropropene	ND	730
	79-01-6	trichloroethene	ND	280
	124-48-1	dibromochloromethane	ND	450
	79-00-5	1,1,2-trichloroethane	ND	730
	71-43-2	benzene	ND	640
	10061-02-6	trans-1,3-dichloropropene	ND	730
	110-75-8	2-chloroethylvinyl ether	ND	730
	75-25-2	bromoform	ND	680
	591-78-6	2-hexanone	ND	5200

SAMPLE ID CAR8-02-120 FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	6700
	127-18-4	tetrachloroethene	ND	590
	79-34-5	1,1,2,2-tetrachloroethane	ND	1000
394	108-88-3	toluene	1700	870
	108-90-7	chlorobenzene	ND	870
446	100-41-4	ethylbenzene	1300	1000
	100-42-5	styrene	ND	440
515	95-47-6	total xylenes	8600	670

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
201	1,2-dichloroethane-d4	74 %
391	Toluene-d8	98 %
485	BFB	104 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-121 SAMPLE # 02 FRACTIONS: A

Date & Time Collected 02/24/88 Category

BNA_S 02/25/88 (DATE COMPLETED) DRY_WT 16 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-121

FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0208802A VERIFIED LAK
INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	800
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	800
	111-44-4	bis(2-chloroethyl) ether	ND	450
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	4000
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	800
	108-60-1	bis(2-chloroisopropyl)ether	ND	450
623	106-44-5	4-methylphenol	1400	800
	621-64-7	n-nitroso-di-n-propylamine	ND	960
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	180
	88-75-5	2-nitrophenol	ND	290
	105-67-9	2,4-dimethylphenol	ND	220
	65-85-0	benzoic acid	ND	4000
	111-91-1	bis(2-chloroethoxy)methane	ND	420
	120-83-2	2,4-dichlorophenol	ND	220
	120-82-1	1,2,4-trichlorobenzene	ND	150
748	91-20-3	naphthalene	950	130
	106-47-8	4-chloroaniline	ND	800
	87-68-3	hexachlorobutadiene	ND	72
	59-50-7	4-chloro-3-methylphenol	ND	240
853	91-57-6	2-methylnaphthalene	2000	800

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088
Continued From Above

SAMPLE ID CAR8-02-121 FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	480
	88-06-2	2,4,6-trichlorophenol	ND	220
	95-95-4	2,4,5-trichlorophenol	ND	800
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	4000
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	280
	99-09-2	3-nitroaniline	ND	4000
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3400
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	800
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	450
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	340
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	4000
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	290
	85-01-8	phenanthrene	ND	430
	120-12-7	anthracene	ND	150
	84-74-2	di-n-butylphthalate	ND	200
	206-44-0	fluoranthene	ND	180
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	620
1661	117-81-7	bis(2-ethylhexyl)phthalate	1400 B	200

SAMPLE ID CAR8-02-121 FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
1776	117-84-0	di-n-octyl phthalate	210	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	300
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	330

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
392	2-fluorophenol	95 %
518	d5-phenol	88 %
642	d5-nitrobenzene	98 %
913	2-fluorobiphenyl	92 %
1135	2,4,6-tribromophenol	94 %
1487	d14-terphenyl	103 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-123

SAMPLE # 03 FRACTIONS: A,B,C

Date & Time Collected 02/24/88 Category

VOA_S 02/29/88
DATE COMPLETED

Received: 02/25/88

Results by Sample

SAMPLE ID CAR8-02-123 FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208803A

INSTRMT 5100 INJECTD 03/02/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	720
	74-83-9	bromomethane	ND	720
	75-01-4	vinyl chloride	ND	720
	75-00-3	chloroethane	ND	720
	75-09-2	methylene chloride	ND	400
109	67-64-1	acetone	5400 B	1100
	75-15-0	carbon disulfide	ND	240
	75-69-4	trichlorofluoromethane	ND	720
	75-35-4	1,1-dichloroethene	ND	680
	75-34-3	1,1-dichloroethane	ND	400
	156-60-5	trans-1,2-dichloroethene	ND	230
	67-66-3	chloroform	ND	230
	107-06-2	1,2-dichloroethane	ND	400
203	78-93-3	2-butanone	6000 B	3600
	71-55-6	1,1,1-trichloroethane	ND	550
	56-23-5	carbon tetrachloride	ND	400
	108-05-4	vinyl acetate	ND	990
	75-27-4	bromodichloromethane	ND	320
	78-87-5	1,2-dichloropropane	ND	860
	10061-01-5	cis-1,3-dichloropropene	ND	720
	79-01-6	trichloroethene	ND	270
	124-48-1	dibromochloromethane	ND	450
	79-00-5	1,1,2-trichloroethane	ND	720
287	71-43-2	benzene	540 J	630
	10061-02-6	trans-1,3-dichloropropene	ND	720
	110-75-8	2-chloroethylvinyl ether	ND	720
	75-25-2	bromoform	ND	680
	591-78-6	2-hexanone	ND	5200

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-088
Continued From Above

SAMPLE ID CAR8-02-123

FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	6600
	127-18-4	tetrachloroethene	ND	590
	79-34-5	1,1,2,2-tetrachloroethane	ND	990
394	108-88-3	toluene	2200	860
	108-90-7	chlorobenzene	ND	860
445	100-41-4	ethylbenzene	5600	1000
	100-42-5	styrene	ND	430
515	95-47-6	total xylenes	35000	660

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
201	1,2-dichloroethane-d4	112 %
391	Toluene-d8	107 %
485	BFB	121 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-124 SAMPLE # 04 FRACTIONS: A
Date & Time Collected 02/24/88 Category

BNA_S 02/25/88 (DATE COMPLETED) DRY_WT 15 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-088

SAMPLE ID CAR8-02-124 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208804A VERIFIED LAK
INSTRMT F1 INJECTD 03/09/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	790
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	790
	111-44-4	bis(2-chloroethyl) ether	ND	450
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	3900
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	790
	108-60-1	bis(2-chloroisopropyl)ether	ND	450
620	106-44-5	4-methylphenol	260 J	790
	621-64-7	n-nitroso-di-n-propylamine	ND	940
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	280
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	3900
	111-91-1	bis(2-chloroethoxy)methane	ND	420
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
743	91-20-3	naphthalene	940	130
	106-47-8	4-chloroaniline	ND	790
	87-68-3	hexachlorobutadiene	ND	71
	59-50-7	4-chloro-3-methylphenol	ND	240
846	91-57-6	2-methylnaphthalene	2000	790

SAMPLE ID CAR8-02-124 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	470
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	790
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	3900
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	270
	99-09-2	3-nitroaniline	ND	3900
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3300
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	790
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	450
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	330
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	3900
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	280
	85-01-8	phenanthrene	ND	420
	120-12-7	anthracene	ND	150
	84-74-2	di-n-butylphthalate	ND	200
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	610
1654	117-81-7	bis(2-ethylhexyl)phthalate	580 B	200

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088
Continued From Above

SAMPLE ID CAR8-02-124

FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
1756	117-84-0	di-n-octyl phthalate	470	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	290
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
395	2-fluorophenol	95 %
516	d5-phenol	94 %
637	d5-nitrobenzene	98 %
906	2-fluorobiphenyl	90 %
1126	2,4,6-tribromophenol	100 %
1480	d14-terphenyl	109 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-126

SAMPLE # 05 FRACTIONS: A,B,C

Date & Time Collected 02/24/88 Category

VOA S 02/29/88
DATE COMPLETED

SAMPLE ID CAR8-02-126 FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208805A
INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.1
	74-83-9	bromomethane	ND	5.1
	75-01-4	vinyl chloride	ND	5.1
	75-00-3	chloroethane	ND	5.1
134	75-09-2	methylene chloride	5.0	2.9
146	67-64-1	acetone	57 B	7.7
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.1
	75-35-4	1,1-dichloroethene	ND	4.8
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.9
	78-93-3	2-butanone	ND	26
	71-55-6	1,1,1-trichloroethane	ND	3.9
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.0
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.1
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.2
	79-00-5	1,1,2-trichloroethane	ND	5.1
	71-43-2	benzene	ND	4.5
	10061-02-6	trans-1,3-dichloropropene	ND	5.1
	110-75-8	2-chloroethylvinyl ether	ND	5.1
	75-25-2	bromoform	ND	4.8
	591-78-6	2-hexanone	ND	37

SAMPLE ID CAR8-02-126 FRACTION 05A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	47
	127-18-4	tetrachloroethene	ND	4.2
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.0
409	108-88-3	toluene	16	6.1
	108-90-7	chlorobenzene	ND	6.1
	100-41-4	ethylbenzene	ND	7.3
	100-42-5	styrene	ND	3.1
556	95-47-6	total xylenes	6.3	4.7

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	94 %
406	Toluene-d8	101 %
515	BFB	107 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR8-02-127 FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208806A VERIFIED LAK
INSTRMT F1 INJECTD 03/09/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	690
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	690
	111-44-4	bis(2-chloroethyl) ether	ND	390
	95-57-8	2-chlorophenol	ND	230
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	300
	100-51-6	benzyl alcohol	ND	3400
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	690
	108-60-1	bis(2-chloroisopropyl)ether	ND	390
619	106-44-5	4-methylphenol	160 J	690
	621-64-7	n-nitroso-di-n-propylamine	ND	820
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	250
	105-67-9	2,4-dimethylphenol	ND	190
	65-85-0	benzoic acid	ND	3400
	111-91-1	bis(2-chloroethoxy)methane	ND	360
	120-83-2	2,4-dichlorophenol	ND	190
	120-82-1	1,2,4-trichlorobenzene	ND	130
742	91-20-3	naphthalene	280	110
	106-47-8	4-chloroaniline	ND	690
	87-68-3	hexachlorobutadiene	ND	62
	59-50-7	4-chloro-3-methylphenol	ND	210
847	91-57-6	2-methylnaphthalene	840	690

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088
Continued From Above

SAMPLE ID CARB-02-127 FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	410
	88-06-2	2,4,6-trichlorophenol	ND	190
	95-95-4	2,4,5-trichlorophenol	ND	690
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3400
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	240
	99-09-2	3-nitroaniline	ND	3400
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2900
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	690
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	390
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	290
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3400
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	250
	85-01-8	phenanthrene	ND	370
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	3000
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	540
1656	117-81-7	bis(2-ethylhexyl)phthalate	860 B	170

SAMPLE ID CAR8-02-127 FRACTION 06A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
1767	117-84-0	di-n-octyl phthalate	95 J	170
	205-99-2	benzo(b)fluoranthene	ND	330
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	280

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
387	2-fluorophenol	90 %
511	d5-phenol	88 %
636	d5-nitrobenzene	86 %
907	2-fluorobiphenyl	82 %
1128	2,4,6-tribromophenol	89 %
1481	d14-terphenyl	92 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-129

SAMPLE # 07 FRACTIONS: A,B,C

Date & Time Collected 02/24/88

Category

VOA S 02/29/88
DATE COMPLETED

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # 88-02-088

SAMPLE ID CAR8-02-129

FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

ANALYST REM EXTRCTD FILE # 0208807A VERIFIED LAK
INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.9
	74-83-9	bromomethane	ND	5.9
	75-01-4	vinyl chloride	ND	5.9
	75-00-3	chloroethane	ND	5.9
137	75-09-2	methylene chloride	120	3.3
	67-64-1	acetone	ND	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.9
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.3
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.1
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.9
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	5.9
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	5.9
	110-75-8	2-chloroethylvinyl ether	ND	5.9
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

SAMPLE ID CAR8-02-129 FRACTION 07A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
359	108-10-1	4-methyl-2-pentanone	23 J	54
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.1
409	108-88-3	toluene	6.2 J	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.5
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.4

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	95 %
407	Toluene-d8	87 %
515	BFB	90 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR8-02-130 SAMPLE # 08 FRACTIONS: A
Date & Time Collected 02/24/88 Category

BNA_S	DRY_WT	EX_BNA	GPC
02/25/88	15	02/29/88	02/29/88
DATE COMPLETED	% MOISTURE	DATE COMPLETED	DATE COMPLETED

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-130 FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208808A VERIFIED LAK

INSTRMT F1 INJECTD 03/09/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	790
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	790
	111-44-4	bis(2-chloroethyl) ether	ND	450
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	3900
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	790
	108-60-1	bis(2-chloroisopropyl)ether	ND	450
	106-44-5	4-methylphenol	ND	790
	621-64-7	n-nitroso-di-n-propylamine	ND	940
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	280
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	3900
	111-91-1	bis(2-chloroethoxy)methane	ND	420
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	130
	106-47-8	4-chloroaniline	ND	790
	87-68-3	hexachlorobutadiene	ND	71
	59-50-7	4-chloro-3-methylphenol	ND	240
	91-57-6	2-methylnaphthalene	ND	790

SAMPLE ID CAR8-02-130 FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	470
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	790
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	3900
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	270
	99-09-2	3-nitroaniline	ND	3900
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3300
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	790
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	450
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	330
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	3900
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	280
	85-01-8	phenanthrene	ND	420
	120-12-7	anthracene	ND	150
	84-74-2	di-n-butylphthalate	ND	200
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	610
	117-81-7	bis(2-ethylhexyl)phthalate	ND	200

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # 88-02-088
Continued From Above

SAMPLE ID CAR8-02-130

FRACTION 08A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
	117-84-0	di-n-octyl phthalate	ND	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	290
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
396	2-fluorophenol	81 %
515	d5-phenol	79 %
636	d5-nitrobenzene	79 %
905	2-fluorobiphenyl	80 %
1126	2,4,6-tribromophenol	84 %
1479	d14-terphenyl	84 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-132 SAMPLE # 09 FRACTIONS: A,B,C
Date & Time Collected 02/24/88 Category

VOA S 02/29/88
DATE COMPLETED

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-132 FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208809A
INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.8
	74-83-9	bromomethane	ND	5.8
	75-01-4	vinyl chloride	ND	5.8
	75-00-3	chloroethane	ND	5.8
126	75-09-2	methylene chloride	18	3.2
139	67-64-1	acetone	35 B	8.7
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.8
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.4
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	8.0
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.8
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.6
	79-00-5	1,1,2-trichloroethane	ND	5.8
	71-43-2	benzene	ND	5.1
	10061-02-6	trans-1,3-dichloropropene	ND	5.8
	110-75-8	2-chloroethylvinyl ether	ND	5.8
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

SAMPLE ID CAR8-02-132 FRACTION 09A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	53
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.0
409	108-88-3	toluene	13	7.0
	108-90-7	chlorobenzene	ND	7.0
	100-41-4	ethylbenzene	ND	8.4
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
226	1,2-dichloroethane-d4	94 %
406	Toluene-d8	99 %
515	BFB	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR8-02-133 SAMPLE # 10 FRACTIONS: A
Date & Time Collected 02/24/88 Category

BNA_S 02/25/88 (DATE COMPLETED) DRY_WT 14 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

SAMPLE ID CAR8-02-133 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208810A VERIFIED LAK
INSTRMT F1 INJECTD 03/09/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	770
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	770
	111-44-4	bis(2-chloroethyl) ether	ND	440
	95-57-8	2-chlorophenol	ND	250
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	340
	100-51-6	benzyl alcohol	ND	3900
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	770
	108-60-1	bis(2-chloroisopropyl)ether	ND	440
	106-44-5	4-methylphenol	ND	770
	621-64-7	n-nitroso-di-n-propylamine	ND	920
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	280
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	3900
	111-91-1	bis(2-chloroethoxy)methane	ND	410
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	770
	87-68-3	hexachlorobutadiene	ND	69
	59-50-7	4-chloro-3-methylphenol	ND	230
	91-57-6	2-methylnaphthalene	ND	770

SAMPLE ID CAR8-02-133 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	460
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	770
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	3900
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	270
	99-09-2	3-nitroaniline	ND	3900
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3200
	100-02-7	4-nitrophenol	ND	180
	132-64-9	dibenzofuran	ND	770
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	440
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	320
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	3900
	534-52-1	4,6-dinitro-2-methylphenol	ND	1800
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	280
	85-01-8	phenanthrene	ND	420
	120-12-7	anthracene	ND	150
	84-74-2	di-n-butylphthalate	ND	190
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3400
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	600
	117-81-7	bis(2-ethylhexyl)phthalate	ND	190

SAMPLE ID CAR8-02-133 FRACTION 10A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
	117-84-0	di-n-octyl phthalate	ND	190
	205-99-2	benzo(b)fluoranthene	ND	370
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	280
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
394	2-fluorophenol	88 %
514	d5-phenol	86 %
637	d5-nitrobenzene	82 %
906	2-fluorobiphenyl	84 %
1127	2,4,6-tribromophenol	81 %
1480	d14-terphenyl	81 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-135 SAMPLE # 11 FRACTIONS: A,B,C
Date & Time Collected 02/24/88 Category

VOA S 02/29/88
DATE COMPLETED

KADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-135

FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208811A
INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.9
	74-83-9	bromomethane	ND	5.9
	75-01-4	vinyl chloride	ND	5.9
	75-00-3	chloroethane	ND	5.9
137	75-09-2	methylene chloride	3.9	3.3
148	67-64-1	acetone	16 B	8.9
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.9
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.3
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.3
	78-93-3	2-butanone	ND	30
	71-55-6	1,1,1-trichloroethane	ND	4.5
	56-23-5	carbon tetrachloride	ND	3.3
	108-05-4	vinyl acetate	ND	8.1
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.9
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.7
	79-00-5	1,1,2-trichloroethane	ND	5.9
	71-43-2	benzene	ND	5.2
	10061-02-6	trans-1,3-dichloropropene	ND	5.9
	110-75-8	2-chloroethylvinyl ether	ND	5.9
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-088
Continued From Above

SAMPLE ID CAR8-02-135 FRACTION 11A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	54
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.1
	108-88-3	toluene	ND	7.1
	108-90-7	chlorobenzene	ND	7.1
	100-41-4	ethylbenzene	ND	8.5
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.4

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	91 %
406	Toluene-d8	100 %
515	BFB	98 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID CAR8-02-136 SAMPLE # 12 FRACTIONS: A
Date & Time Collected 02/24/88 Category

BNA S 02/25/88 DRY WT 17 EX BNA 02/29/88 GPC 02/29/88
DATE COMPLETED % MOISTURE DATE COMPLETED DATE COMPLETED

SAMPLE ID CAR8-02-136 FRACTION 12A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208812A VERIFIED LAK
INSTRMT F1 INJECTD 03/09/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	800
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	800
	111-44-4	bis(2-chloroethyl) ether	ND	460
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	350
	100-51-6	benzyl alcohol	ND	4000
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	800
	108-60-1	bis(2-chloroisopropyl)ether	ND	460
	106-44-5	4-methylphenol	ND	800
	621-64-7	n-nitroso-di-n-propylamine	ND	960
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	180
	88-75-5	2-nitrophenol	ND	290
	105-67-9	2,4-dimethylphenol	ND	220
	65-85-0	benzoic acid	ND	4000
	111-91-1	bis(2-chloroethoxy)methane	ND	420
	120-83-2	2,4-dichlorophenol	ND	220
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	130
	106-47-8	4-chloroaniline	ND	800
	87-68-3	hexachlorobutadiene	ND	72
	59-50-7	4-chloro-3-methylphenol	ND	240
	91-57-6	2-methylnaphthalene	ND	800

SAMPLE ID CAR8-02-136 FRACTION 12A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	480
	88-06-2	2,4,6-trichlorophenol	ND	220
	95-95-4	2,4,5-trichlorophenol	ND	800
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	4000
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	280
	99-09-2	3-nitroaniline	ND	4000
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3400
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	800
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	460
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	340
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	4000
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	290
	85-01-8	phenanthrene	ND	430
	120-12-7	anthracene	ND	150
	84-74-2	di-n-butylphthalate	ND	200
	206-44-0	fluoranthene	ND	180
	92-87-5	benzidine	ND	3500
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	620
	117-81-7	bis(2-ethylhexyl)phthalate	ND	200

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088
Continued From Above

SAMPLE ID CAR8-02-136

FRACTION 12A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
	117-84-0	di-n-octyl phthalate	ND	200
	205-99-2	benzo(b)fluoranthene	ND	380
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	300
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	330

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
383	2-fluorophenol	98 %
509	d5-phenol	96 %
633	d5-nitrobenzene	93 %
904	2-fluorobiphenyl	92 %
1126	2,4,6-tribromophenol	90 %
1479	d14-terphenyl	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-138

SAMPLE # 13 FRACTIONS: A,B,C

Date & Time Collected 02/24/88 Category

VOA S 02/29/88
DATE COMPLETED

RADIAN CORPORATION

RAS Sacramento REPORT Work Order # S8-02-088

Received: 02/25/88

Results by Sample

SAMPLE ID CAR8-02-138 FRACTION 13A TEST CODE CL8240 NAME Purgeable Organics - Soil

Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208813A

INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.1
	74-83-9	bromomethane	ND	5.1
	75-01-4	vinyl chloride	ND	5.1
	75-00-3	chloroethane	ND	5.1
137	75-09-2	methylene chloride	6.2	2.9
148	67-64-1	acetone	14 B	7.7
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.1
	75-35-4	1,1-dichloroethene	ND	4.8
	75-34-3	1,1-dichloroethane	ND	2.9
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.9
	78-93-3	2-butanone	ND	26
	71-55-6	1,1,1-trichloroethane	ND	3.9
	56-23-5	carbon tetrachloride	ND	2.9
	108-05-4	vinyl acetate	ND	7.0
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.1
	10061-01-5	cis-1,3-dichloropropene	ND	5.1
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.2
	79-00-5	1,1,2-trichloroethane	ND	5.1
	71-43-2	benzene	ND	4.5
	10061-02-6	trans-1,3-dichloropropene	ND	5.1
	110-75-8	2-chloroethylvinyl ether	ND	5.1
	75-25-2	bromoform	ND	4.8
	591-78-6	2-hexanone	ND	37

SAMPLE ID CAR8-02-138 FRACTION 13A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	47
	127-18-4	tetrachloroethene	ND	4.2
	79-34-5	1,1,2,2-tetrachloroethane	ND	7.0
409	108-88-3	toluene	6.4	6.1
	108-90-7	chlorobenzene	ND	6.1
	100-41-4	ethylbenzene	ND	7.3
	100-42-5	styrene	ND	3.1
	95-47-6	total xylenes	ND	4.7

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	91 %
406	Toluene-d8	96 %
514	BFB	98 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-139 SAMPLE # 14 FRACTIONS: A
Date & Time Collected 02/24/88 Category

BNA_S 02/25/88 (DATE COMPLETED) DRY_WT 4 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

SAMPLE ID CAR8-02-139 FRACTION 14A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208814A VERIFIED LAK
INSTRMT F1 INJECTD 03/09/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	690
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	690
	111-44-4	bis(2-chloroethyl) ether	ND	390
	95-57-8	2-chlorophenol	ND	230
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	300
	100-51-6	benzyl alcohol	ND	3500
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	690
	108-60-1	bis(2-chloroisopropyl)ether	ND	390
	106-44-5	4-methylphenol	ND	690
	621-64-7	n-nitroso-di-n-propylamine	ND	830
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	250
	105-67-9	2,4-dimethylphenol	ND	190
	65-85-0	benzoic acid	ND	3500
	111-91-1	bis(2-chloroethoxy)methane	ND	370
	120-83-2	2,4-dichlorophenol	ND	190
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	690
	87-68-3	hexachlorobutadiene	ND	62
	59-50-7	4-chloro-3-methylphenol	ND	210
	91-57-6	2-methylnaphthalene	ND	690

SAMPLE ID CAR8-02-139 FRACTION 14A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	410
	88-06-2	2,4,6-trichlorophenol	ND	190
	95-95-4	2,4,5-trichlorophenol	ND	690
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3500
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	240
	99-09-2	3-nitroaniline	ND	3500
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2900
	100-02-7	4-nitrophenol	ND	170
	132-64-9	dibenzofuran	ND	690
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	390
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	290
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3500
	534-52-1	4,6-dinitro-2-methylphenol	ND	1700
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	250
	85-01-8	phenanthrene	ND	370
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	3000
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	540
1655	117-81-7	bis(2-ethylhexyl)phthalate	320 B	170

SAMPLE ID CAR8-02-139 FRACTION 14A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	330
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	260
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	280

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
389	2-fluorophenol	87 %
512	d5-phenol	86 %
636	d5-nitrobenzene	81 %
906	2-fluorobiphenyl	81 %
1128	2,4,6-tribromophenol	78 %
1480	d14-terphenyl	91 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-139 MATRIX SPIKE SAMPLE # 15 FRACTIONS: A
Date & Time Collected not specified Category

EX BNA 02/29/88
DATE COMPLETED

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # SB-02-088

SAMPLE ID CAR8-02-139 MATRIX SPIKE FRACTION 15A TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208815A VERIFIED LAK

INSTRMT F1 INJECTD 03/09/88 UNITS % recove

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	NA	10
514	108-95-2	phenol	93	1.5
	62-53-3	aniline	NA	10
	111-44-4	bis(2-chloroethyl) ether	NA	5.7
529	95-57-8	2-chlorophenol	94	3.3
	541-73-1	1,3-dichlorobenzene	NA	1.9
556	106-46-7	1,4-dichlorobenzene	87	4.4
	100-51-6	benzyl alcohol	NA	50
	95-50-1	1,2-dichlorobenzene	NA	1.9
	95-48-7	2-methylphenol	NA	10
	108-60-1	bis(2-chloroisopropyl)ether	NA	5.7
	106-44-5	4-methylphenol	NA	10
620	621-64-7	n-nitroso-di-n-propylamine	109	12
	67-72-1	hexachloroethane	NA	1.6
	98-95-3	nitrobenzene	NA	1.9
	78-59-1	isophorone	NA	2.2
	88-75-5	2-nitrophenol	NA	3.6
	105-67-9	2,4-dimethylphenol	NA	2.7
	65-85-0	benzoic acid	NA	50
	111-91-1	bis(2-chloroethoxy)methane	NA	5.3
	120-83-2	2,4-dichlorophenol	NA	2.7
734	120-82-1	1,2,4-trichlorobenzene	91	1.9
	91-20-3	naphthalene	NA	1.6
	106-47-8	4-chloroaniline	NA	10
	87-68-3	hexachlorobutadiene	NA	0.90
829	59-50-7	4-chloro-3-methylphenol	90	3.0
	91-57-6	2-methylnaphthalene	NA	10

SAMPLE ID CAR8-02-139 MATRIX SPIKE FRACTION 15A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	NA	6.0
	88-06-2	2,4,6-trichlorophenol	NA	2.7
	95-95-4	2,4,5-trichlorophenol	NA	10
	91-58-7	2-chloronaphthalene	NA	1.9
	88-74-4	2-nitroaniline	NA	50
	131-11-3	dimethyl phthalate	NA	1.6
	208-96-8	acenaphthylene	NA	3.5
	99-09-2	3-nitroaniline	NA	50
1013	83-32-9	acenaphthene	95	1.9
	51-28-5	2,4-dinitrophenol	NA	42
1031	100-02-7	4-nitrophenol	98	2.4
	132-64-9	dibenzofuran	NA	10
	606-20-2	2,6-dinitrotoluene	NA	1.9
1042	121-14-2	2,4-dinitrotoluene	95	5.7
	84-66-2	diethylphthalate	NA	1.9
	7005-72-3	4-chlorophenyl-phenylether	NA	4.2
	86-73-7	fluorene	NA	1.9
	100-01-06	4-nitroaniline	NA	50
	534-52-1	4,6-dinitro-2-methylphenol	NA	24
	86-30-6	n-nitrosodiphenylamine	NA	1.9
	101-55-3	4-bromophenyl-phenylether	NA	1.9
	118-74-1	hexachlorobenzene	NA	1.9
1214	87-86-5	pentachlorophenol	88	3.6
	85-01-8	phenanthrene	NA	5.4
	120-12-7	anthracene	NA	1.9
	84-74-2	di-n-butylphthalate	NA	2.5
	206-44-0	fluoranthene	NA	2.2
	92-87-5	benzidine	NA	44
1454	129-00-0	pyrene	49	1.9
	85-68-7	butylbenzylphthalate	NA	2.5
	91-94-1	3,3'-dichlorobenzidine	NA	17
	56-55-3	benzo(a)anthracene	NA	7.8
	117-81-7	bis(2-ethylhexyl)phthalate	NA	2.5

SAMPLE ID CAR8-02-139 MATRIX SPIKE FRACTION 15A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category _____

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	NA	2.5
	117-84-0	di-n-octyl phthalate	NA	2.5
	205-99-2	benzo(b)fluoranthene	NA	4.8
	207-08-9	benzo(k)fluoranthene	NA	2.5
	50-32-8	benzo(a)pyrene	NA	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	NA	3.7
	53-70-3	dibenz(a,h)anthracene	NA	2.5
	191-24-2	benzo(ghi)perylene	NA	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
384	2-fluorophenol	100 %
512	d5-phenol	96 %
636	d5-nitrobenzene	92 %
907	2-fluorobiphenyl	93 %
1129	2,4,6-tribromophenol	94 %
1481	d14-terphenyl	101 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-139 MS DUP

SAMPLE # 15 FRACTIONS: B

Date & Time Collected not specified Category

EX BNA 02/29/88
DATE COMPLETED

Received: 02/25/88

Results by Sample

SAMPLE ID CAR8-02-139 MS DUP FRACTION 15B TEST CODE CL8270 NAME Semivolatile Organics-Soil

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208815B VERIFIED LAK

INSTRMT F1 INJECTD 03/09/88 UNITS % recove

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	NA	10
512	108-95-2	phenol	93	1.5
	62-53-3	aniline	NA	10
	111-44-4	bis(2-chloroethyl) ether	NA	5.7
527	95-57-8	2-chlorophenol	92	3.3
	541-73-1	1,3-dichlorobenzene	NA	1.9
554	106-46-7	1,4-dichlorobenzene	82	4.4
	100-51-6	benzyl alcohol	NA	50
	95-50-1	1,2-dichlorobenzene	NA	1.9
	95-48-7	2-methylphenol	NA	10
	108-60-1	bis(2-chloroisopropyl)ether	NA	5.7
	106-44-5	4-methylphenol	NA	10
618	621-64-7	n-nitroso-di-n-propylamine	102	12
	67-72-1	hexachloroethane	NA	1.6
	98-95-3	nitrobenzene	NA	1.9
	78-59-1	isophorone	NA	2.2
	88-75-5	2-nitrophenol	NA	3.6
	105-67-9	2,4-dimethylphenol	NA	2.7
	65-85-0	benzoic acid	NA	50
	111-91-1	bis(2-chloroethoxy)methane	NA	5.3
	120-83-2	2,4-dichlorophenol	NA	2.7
733	120-82-1	1,2,4-trichlorobenzene	85	1.9
	91-20-3	naphthalene	NA	1.6
	106-47-8	4-chloroaniline	NA	10
	87-68-3	hexachlorobutadiene	NA	0.90
827	59-50-7	4-chloro-3-methylphenol	88	3.0
	91-57-6	2-methylnaphthalene	NA	10

RAS Sacramento REPORT
Results by Sample

SAMPLE ID CAR8-02-139 MS DUP FRACTION 15B TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	NA	6.0
	88-06-2	2,4,6-trichlorophenol	NA	2.7
	95-95-4	2,4,5-trichlorophenol	NA	10
	91-58-7	2-chloronaphthalene	NA	1.9
	88-74-4	2-nitroaniline	NA	50
	131-11-3	dimethyl phthalate	NA	1.6
	208-96-8	acenaphthylene	NA	3.5
	99-09-2	3-nitroaniline	NA	50
1011	83-32-9	acenaphthene	93	1.9
	51-28-5	2,4-dinitrophenol	NA	42
1029	100-02-7	4-nitrophenol	103	2.4
	132-64-9	dibenzofuran	NA	10
	606-20-2	2,6-dinitrotoluene	NA	1.9
1041	121-14-2	2,4-dinitrotoluene	91	5.7
	84-66-2	diethylphthalate	NA	1.9
	7005-72-3	4-chlorophenyl-phenylether	NA	4.2
	86-73-7	fluorene	NA	1.9
	100-01-06	4-nitroaniline	NA	50
	534-52-1	4,6-dinitro-2-methylphenol	NA	24
	86-30-6	n-nitrosodiphenylamine	NA	1.9
	101-55-3	4-bromophenyl-phenylether	NA	1.9
	118-74-1	hexachlorobenzene	NA	1.9
1212	87-86-5	pentachlorophenol	83	3.6
	85-01-8	phenanthrene	NA	5.4
	120-12-7	anthracene	NA	1.9
	84-74-2	di-n-butylphthalate	NA	2.5
	206-44-0	fluoranthene	NA	2.2
	92-87-5	benzidine	NA	44
1452	129-00-0	pyrene	45	1.9
	85-68-7	butylbenzylphthalate	NA	2.5
	91-94-1	3,3'-dichlorobenzidine	NA	17
	56-55-3	benzo(a)anthracene	NA	7.8
	117-81-7	bis(2-ethylhexyl)phthalate	NA	2.5

SAMPLE ID CAR8-02-139 MS DUP FRACTION 15B TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	NA	2.5
	117-84-0	di-n-octyl phthalate	NA	2.5
	205-99-2	benzo(b)fluoranthene	NA	4.8
	207-08-9	benzo(k)fluoranthene	NA	2.5
	50-32-8	benzo(a)pyrene	NA	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	NA	3.7
	53-70-3	dibenz(a,h)anthracene	NA	2.5
	191-24-2	benzo(ghi)perylene	NA	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
384	2-fluorophenol	94 %
510	d5-phenol	94 %
635	d5-nitrobenzene	86 %
906	2-fluorobiphenyl	88 %
1127	2,4,6-tribromophenol	92 %
1479	d14-terphenyl	93 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 16 FRACTIONS: A
Date & Time Collected not specified Category

EX BNA 02/29/88 GPC 02/29/88
DATE COMPLETED DATE COMPLETED

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID REAGENT BLANK BNA FRACTION 16A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208905A VERIFIED LAK
INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088
Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 16A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1662	117-81-7	bis(2-ethylhexyl)phthalate	330	170

SAMPLE ID REAGENT BLANK BNA

FRACTION 16A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
397	2-fluorophenol	101 %
521	d5-phenol	98 %
644	d5-nitrobenzene	101 %
914	2-fluorobiphenyl	97 %
1136	2,4,6-tribromophenol	86 %
1489	d14-terphenyl	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

SAMPLE ID CAR8-02-138 MATRIX SPIKE FRACTION 17A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208817A
INSTRMT F4 INJECTD 03/01/88 UNITS% recove

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	NA	10
	74-83-9	bromomethane	NA	10
	75-01-4	vinyl chloride	NA	10
	75-00-3	chloroethane	NA	10
	75-09-2	methylene chloride	NA	5.6
	67-64-1	acetone	NA	15
	75-15-0	carbon disulfide	NA	3.4
	75-69-4	trichlorofluoromethane	NA	10
181	75-35-4	1,1-dichloroethene	110	9.4
	75-34-3	1,1-dichloroethane	NA	5.6
	156-60-5	trans-1,2-dichloroethene	NA	3.2
	67-66-3	chloroform	NA	3.2
	107-06-2	1,2-dichloroethane	NA	5.6
	78-93-3	2-butanone	NA	50
	71-55-6	1,1,1-trichloroethane	NA	7.6
	56-23-5	carbon tetrachloride	NA	5.6
	108-05-4	vinyl acetate	NA	14
	75-27-4	bromodichloromethane	NA	4.4
	78-87-5	1,2-dichloropropane	NA	12
	10061-01-5	cis-1,3-dichloropropene	NA	10
298	79-01-6	trichloroethene	90	3.8
	124-48-1	dibromochloromethane	NA	6.2
	79-00-5	1,1,2-trichloroethane	NA	10
309	71-43-2	benzene	93	8.8
	10061-02-6	trans-1,3-dichloropropene	NA	10
	110-75-8	2-chloroethylvinyl ether	NA	10
	75-25-2	bromoform	NA	9.4
	591-78-6	2-hexanone	NA	72

SAMPLE ID CAR8-02-138 MATRIX SPIKE FRACTION 17A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	NA	92
	127-18-4	tetrachloroethene	NA	8.2
	79-34-5	1,1,2,2-tetrachloroethane	NA	14
409	108-88-3	toluene	97	12
427	108-90-7	chlorobenzene	95	12
	100-41-4	ethylbenzene	NA	14
	100-42-5	styrene	NA	6.0
	95-47-6	total xylenes	NA	9.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	91 %
406	Toluene-d8	98 %
515	BFB	98 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID CAR8-02-138 MS DUP FRACTION 17B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208817B
INSTRMT F4 INJECTD 03/01/88 UNITS% recove

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	NA	10
	74-83-9	bromomethane	NA	10
	75-01-4	vinyl chloride	NA	10
	75-00-3	chloroethane	NA	10
	75-09-2	methylene chloride	NA	5.6
	67-64-1	acetone	NA	15
	75-15-0	carbon disulfide	NA	3.4
	75-69-4	trichlorofluoromethane	NA	10
181	75-35-4	1,1-dichloroethene	110	9.4
	75-34-3	1,1-dichloroethane	NA	5.6
	156-60-5	trans-1,2-dichloroethene	NA	3.2
	67-66-3	chloroform	NA	3.2
	107-06-2	1,2-dichloroethane	NA	5.6
	78-93-3	2-butanone	NA	50
	71-55-6	1,1,1-trichloroethane	NA	7.6
	56-23-5	carbon tetrachloride	NA	5.6
	108-05-4	vinyl acetate	NA	14
	75-27-4	bromodichloromethane	NA	4.4
	78-87-5	1,2-dichloropropane	NA	12
	10061-01-5	cis-1,3-dichloropropene	NA	10
298	79-01-6	trichloroethene	90	3.8
	124-48-1	dibromochloromethane	NA	6.2
	79-00-5	1,1,2-trichloroethane	NA	10
308	71-43-2	benzene	92	8.8
	10061-02-6	trans-1,3-dichloropropene	NA	10
	110-75-8	2-chloroethylvinyl ether	NA	10
	75-25-2	bromoform	NA	9.4
	591-78-6	2-hexanone	NA	72

SAMPLE ID CAR8-02-138 MS DUP FRACTION 17B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	NA	92
	127-18-4	tetrachloroethene	NA	8.2
	79-34-5	1,1,2,2-tetrachloroethane	NA	14
409	108-88-3	toluene	98	12
426	108-90-7	chlorobenzene	94	12
	100-41-4	ethylbenzene	NA	14
	100-42-5	styrene	NA	6.0
	95-47-6	total xylenes	NA	9.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	90 %
406	Toluene-d8	98 %
514	BFB	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID REAGENT BLANK VOA FRACTION 18A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208507A
INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
	75-09-2	methylene chloride	ND	2.8
147	67-64-1	acetone	5.8 J	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
205	78-93-3	2-butanone	5200	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

SAMPLE ID REAGENT BLANK VOA FRACTION 18A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY	
229	1,2-dichloroethane-d4	94	%
406	Toluene-d8	99	%
515	BFB	100	%

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-088

SAMPLE ID REAGENT BLANK VOA FRACTION 18B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208818A
INSTRMT 5100 INJECTD 03/02/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	630
	74-83-9	bromomethane	ND	630
	75-01-4	vinyl chloride	ND	630
	75-00-3	chloroethane	ND	630
	75-09-2	methylene chloride	ND	350
114	67-64-1	acetone	3700	940
	75-15-0	carbon disulfide	ND	210
	75-69-4	trichlorofluoromethane	ND	630
	75-35-4	1,1-dichloroethene	ND	590
	75-34-3	1,1-dichloroethane	ND	350
	156-60-5	trans-1,2-dichloroethene	ND	200
	67-66-3	chloroform	ND	200
	107-06-2	1,2-dichloroethane	ND	350
205	78-93-3	2-butanone	5200	3100
	71-55-6	1,1,1-trichloroethane	ND	480
	56-23-5	carbon tetrachloride	ND	350
	108-05-4	vinyl acetate	ND	860
	75-27-4	bromodichloromethane	ND	280
	78-87-5	1,2-dichloropropane	ND	750
	10061-01-5	cis-1,3-dichloropropene	ND	630
	79-01-6	trichloroethene	ND	240
	124-48-1	dibromochloromethane	ND	390
	79-00-5	1,1,2-trichloroethane	ND	630
	71-43-2	benzene	ND	550
	10061-02-6	trans-1,3-dichloropropene	ND	630
	110-75-8	2-chloroethylvinyl ether	ND	630
	75-25-2	bromoform	ND	590
	591-78-6	2-hexanone	ND	4500

SAMPLE ID REAGENT BLANK VOA FRACTION 18B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	5800
	127-18-4	tetrachloroethene	ND	510
	79-34-5	1,1,2,2-tetrachloroethane	ND	860
	108-88-3	toluene	ND	750
	108-90-7	chlorobenzene	ND	750
	100-41-4	ethylbenzene	ND	900
	100-42-5	styrene	ND	380
	95-47-6	total xylenes	ND	580

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
202	1,2-dichloroethane-d4	96 %
391	Toluene-d8	104 %
485	BFB	112 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C	!	DUP624
03C	!	DUP624
05C	!	DUP624
07C	!	DUP624
09C	!	DUP624
11C	!	DUP624
13C	!	DUP624

RADIAN CORPORATION

Page 1

Received: 02/25/88

RAS Sacramento REPORT

03/29/88 17:46:09

Work Order # S8-02-089

REPORT TO
Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN Larry French

CLIENT CARSWELL AFB SAMPLES 6
COMPANY Carswell AFB.
FACILITY Headquarters, SAC
Offutt, Nebraska 68113

WORK ID Site 17 & Site BSS
TAKEN 02/24/88
TRANS Federal 5910117931
TYPE Soil-8240/8270/EP TOX
P.O. # 227-005-04-40
INVOICE under separate cover

PREPARED BY
Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN
PHONE 916-362-5332

Lucesa Petkovsek
CERTIFIED BY

CONTACT LARRY FRENCH

SAMPLE IDENTIFICATION

01 CAR8-02-141
02 CAR8-02-142
03 CAR8-02-144
04 CAR8-02-145
05 REAGENT BLANK BNA
06 REAGENT BLANK VOA

TEST CODES and NAMES used on this report

BNA S	Semivolatiles Screen
CL8240	Purgeable Organics - Soil
CL8270	Semivolatile Organics-Soil
DRY WT	Dry weight determination
EX BNA	Semivolatiles extraction
GPC	Gel Perm Clean-Up
VOA S	Volatiles Screen Analysis

Received: 02/25/88

RAS Sacramento REPORT

Work Order # 88-02-089

Results By Test

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
BNA_S date completed		02/25/88 DATE COMPLETED		02/25/88 DATE COMPLETED	
DRY_WT % moisture		14 % MOISTURE		18 % MOISTURE	
EX_BNA date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED
GPC date completed		02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED
VOA_S date completed	02/29/88 DATE COMPLETED		02/29/88 DATE COMPLETED		

KADIAN CORPORATION

RAS Sacramento REPORT

Work Order # S8-02-089

Received: 02/25/88

Results By Test

SAMPLE Sample Id	Test: BNA S date completed	Test: DRY WT % moisture	Test: EX BNA date completed	Test: GPC date completed	Test: VOA S date completed
01 CAR8-02-141					02/29/88 DATE COMPLETED
02 CAR8-02-142	02/25/88 DATE COMPLETED	14 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
03 CAR8-02-144					02/29/88 DATE COMPLETED
04 CAR8-02-145	02/25/88 DATE COMPLETED	18 % MOISTURE	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	
05 REAGENT BLANK B			02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	

Received: 02/25/88

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-089

SAMPLE ID CAR8-02-141

SAMPLE # 01 FRACTIONS: A,B,C

Date & Time Collected 02/24/88 Category

VOA S 02/29/88
DATE COMPLETED

KADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-089

SAMPLE ID CAR8-02-141 FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

ANALYST REM EXTRCTD FILE # 0208901A VERIFIED LAK
INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.8
	74-83-9	bromomethane	ND	5.8
	75-01-4	vinyl chloride	ND	5.8
	75-00-3	chloroethane	ND	5.8
	75-09-2	methylene chloride	ND	3.2
	67-64-1	acetone	ND	8.7
	75-15-0	carbon disulfide	ND	2.0
	75-69-4	trichlorofluoromethane	ND	5.8
	75-35-4	1,1-dichloroethene	ND	5.5
	75-34-3	1,1-dichloroethane	ND	3.2
	156-60-5	trans-1,2-dichloroethene	ND	1.9
	67-66-3	chloroform	ND	1.9
	107-06-2	1,2-dichloroethane	ND	3.2
	78-93-3	2-butanone	ND	29
	71-55-6	1,1,1-trichloroethane	ND	4.4
	56-23-5	carbon tetrachloride	ND	3.2
	108-05-4	vinyl acetate	ND	8.0
	75-27-4	bromodichloromethane	ND	2.6
	78-87-5	1,2-dichloropropane	ND	7.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.8
	79-01-6	trichloroethene	ND	2.2
	124-48-1	dibromochloromethane	ND	3.6
	79-00-5	1,1,2-trichloroethane	ND	5.8
	71-43-2	benzene	ND	5.1
	10061-02-6	trans-1,3-dichloropropene	ND	5.8
	110-75-8	2-chloroethylvinyl ether	ND	5.8
	75-25-2	bromoform	ND	5.5
	591-78-6	2-hexanone	ND	42

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-089
Continued From Above

SAMPLE ID CARB-02-141 FRACTION 01A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	53
	127-18-4	tetrachloroethene	ND	4.8
	79-34-5	1,1,2,2-tetrachloroethane	ND	8.0
	108-88-3	toluene	ND	7.0
	108-90-7	chlorobenzene	ND	7.0
	100-41-4	ethylbenzene	ND	8.4
	100-42-5	styrene	ND	3.5
	95-47-6	total xylenes	ND	5.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	93 %
407	Toluene-d8	104 %
516	BFB	95 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-089

SAMPLE ID CAR8-02-142

SAMPLE # 02 FRACTIONS: A

Date & Time Collected 02/24/88 Category

BNA_S 02/25/88 (DATE COMPLETED) DRY_WT 14 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-089

SAMPLE ID CAR8-02-142 FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208902A VERIFIED LAK
INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	780
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	780
	111-44-4	bis(2-chloroethyl) ether	ND	440
	95-57-8	2-chlorophenol	ND	260
	541-73-1	1,3-dichlorobenzene	ND	150
	106-46-7	1,4-dichlorobenzene	ND	340
	100-51-6	benzyl alcohol	ND	3900
	95-50-1	1,2-dichlorobenzene	ND	150
	95-48-7	2-methylphenol	ND	780
	108-60-1	bis(2-chloroisopropyl)ether	ND	440
	106-44-5	4-methylphenol	ND	780
	621-64-7	n-nitroso-di-n-propylamine	ND	930
	67-72-1	hexachloroethane	ND	120
	98-95-3	nitrobenzene	ND	150
	78-59-1	isophorone	ND	170
	88-75-5	2-nitrophenol	ND	280
	105-67-9	2,4-dimethylphenol	ND	210
	65-85-0	benzoic acid	ND	3900
	111-91-1	bis(2-chloroethoxy)methane	ND	410
	120-83-2	2,4-dichlorophenol	ND	210
	120-82-1	1,2,4-trichlorobenzene	ND	150
	91-20-3	naphthalene	ND	120
	106-47-8	4-chloroaniline	ND	780
	87-68-3	hexachlorobutadiene	ND	70
	59-50-7	4-chloro-3-methylphenol	ND	230
	91-57-6	2-methylnaphthalene	ND	780

SAMPLE ID CAR8-02-142 FRACTION 02A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	470
	88-06-2	2,4,6-trichlorophenol	ND	210
	95-95-4	2,4,5-trichlorophenol	ND	780
	91-58-7	2-chloronaphthalene	ND	150
	88-74-4	2-nitroaniline	ND	3900
	131-11-3	dimethyl phthalate	ND	120
	208-96-8	acenaphthylene	ND	270
	99-09-2	3-nitroaniline	ND	3900
	83-32-9	acenaphthene	ND	150
	51-28-5	2,4-dinitrophenol	ND	3300
	100-02-7	4-nitrophenol	ND	190
	132-64-9	dibenzofuran	ND	780
	606-20-2	2,6-dinitrotoluene	ND	150
	121-14-2	2,4-dinitrotoluene	ND	440
	84-66-2	diethylphthalate	ND	150
	7005-72-3	4-chlorophenyl-phenylether	ND	330
	86-73-7	fluorene	ND	150
	100-01-06	4-nitroaniline	ND	3900
	534-52-1	4,6-dinitro-2-methylphenol	ND	1900
	86-30-6	n-nitrosodiphenylamine	ND	150
	101-55-3	4-bromophenyl-phenylether	ND	150
	118-74-1	hexachlorobenzene	ND	150
	87-86-5	pentachlorophenol	ND	280
	85-01-8	phenanthrene	ND	420
	120-12-7	anthracene	ND	150
	84-74-2	di-n-butylphthalate	ND	190
	206-44-0	fluoranthene	ND	170
	92-87-5	benzidine	ND	3400
	129-00-0	pyrene	ND	150
	85-68-7	butylbenzylphthalate	ND	190
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	600
1661	117-81-7	bis(2-ethylhexyl)phthalate	660 B	190

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-089
Continued From Above

SAMPLE ID CAR8-02-142

FRACTION 02A TEST CODE CLB270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	190
	117-84-0	di-n-octyl phthalate	ND	190
	205-99-2	benzo(b)fluoranthene	ND	370
	207-08-9	benzo(k)fluoranthene	ND	190
	50-32-8	benzo(a)pyrene	ND	190
	193-39-5	indeno(1,2,3-cd)pyrene	ND	290
	53-70-3	dibenz(a,h)anthracene	ND	190
	191-24-2	benzo(ghi)perylene	ND	320

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
394	2-fluorophenol	88 %
518	d5-phenol	93 %
642	d5-nitrobenzene	97 %
913	2-fluorobiphenyl	92 %
1135	2,4,6-tribromophenol	73 %
1487	d14-terphenyl	110 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88

RADIAN CORPORATION

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-089

SAMPLE ID CAR8-02-144

SAMPLE # 03 FRACTIONS: A,B,C

Date & Time Collected 02/24/88 Category

VOA S 02/29/88
DATE COMPLETED

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-089

SAMPLE ID CAR8-02-144 FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208903A
INSTRMT 5100 INJECTD 03/02/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	710
	74-83-9	bromomethane	ND	710
	75-01-4	vinyl chloride	ND	710
	75-00-3	chloroethane	ND	710
	75-09-2	methylene chloride	ND	400
114	67-64-1	acetone	3800 B	1100
	75-15-0	carbon disulfide	ND	240
	75-69-4	trichlorofluoromethane	ND	710
	75-35-4	1,1-dichloroethene	ND	670
	75-34-3	1,1-dichloroethane	ND	400
	156-60-5	trans-1,2-dichloroethene	ND	230
	67-66-3	chloroform	ND	230
	107-06-2	1,2-dichloroethane	ND	400
205	78-93-3	2-butanone	5600 B	3600
	71-55-6	1,1,1-trichloroethane	ND	540
	56-23-5	carbon tetrachloride	ND	400
	108-05-4	vinyl acetate	ND	980
	75-27-4	bromodichloromethane	ND	310
	78-87-5	1,2-dichloropropane	ND	850
	10061-01-5	cis-1,3-dichloropropene	ND	710
	79-01-6	trichloroethene	ND	270
	124-48-1	dibromochloromethane	ND	440
	79-00-5	1,1,2-trichloroethane	ND	710
	71-43-2	benzene	ND	620
	10061-02-6	trans-1,3-dichloropropene	ND	710
	110-75-8	2-chloroethylvinyl ether	ND	710
	75-25-2	bromoform	ND	670
	591-78-6	2-hexanone	ND	5100

SAMPLE ID CAR8-02-144 FRACTION 03A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	6500
	127-18-4	tetrachloroethene	ND	580
	79-34-5	1,1,2,2-tetrachloroethane	ND	980
	108-88-3	toluene	ND	850
	108-90-7	chlorobenzene	ND	850
	100-41-4	ethylbenzene	ND	1000
	100-42-5	styrene	ND	430
531	95-47-6	total xylenes	3700	650

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
203	1,2-dichloroethane-d4	110 %
392	Toluene-d8	110 %
486	BFB	115 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

RAS Sacramento REPORT

Work Order # S8-02-089

Received: 02/25/88

Results by Sample

SAMPLE ID CAR8-02-145 SAMPLE # 04 FRACTIONS: A

Date & Time Collected 02/24/88 Category

BNA_S 02/25/88 (DATE COMPLETED) DRY_WT 18 (% MOISTURE) EX_BNA 02/29/88 (DATE COMPLETED) GPC 02/29/88 (DATE COMPLETED)

SAMPLE ID CAR8-02-145 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208904A VERIFIED LAK
INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	820
	108-95-2	phenol	ND	120
	62-53-3	aniline	ND	820
	111-44-4	bis(2-chloroethyl) ether	ND	470
	95-57-8	2-chlorophenol	ND	270
	541-73-1	1,3-dichlorobenzene	ND	160
	106-46-7	1,4-dichlorobenzene	ND	360
	100-51-6	benzyl alcohol	ND	4100
	95-50-1	1,2-dichlorobenzene	ND	160
	95-48-7	2-methylphenol	ND	820
	108-60-1	bis(2-chloroisopropyl)ether	ND	470
	106-44-5	4-methylphenol	ND	820
	621-64-7	n-nitroso-di-n-propylamine	ND	980
	67-72-1	hexachloroethane	ND	130
	98-95-3	nitrobenzene	ND	160
	78-59-1	isophorone	ND	180
	88-75-5	2-nitrophenol	ND	290
	105-67-9	2,4-dimethylphenol	ND	220
	65-85-0	benzoic acid	ND	4100
	111-91-1	bis(2-chloroethoxy)methane	ND	430
	120-83-2	2,4-dichlorophenol	ND	220
	120-82-1	1,2,4-trichlorobenzene	ND	160
748	91-20-3	naphthalene	1100	130
	106-47-8	4-chloroaniline	ND	820
	87-68-3	hexachlorobutadiene	ND	74
	59-50-7	4-chloro-3-methylphenol	ND	250
852	91-57-6	2-methylnaphthalene	2500	820

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-089
Continued From Above

SAMPLE ID CAR8-02-145 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	490
	88-06-2	2,4,6-trichlorophenol	ND	220
	95-95-4	2,4,5-trichlorophenol	ND	820
	91-58-7	2-chloronaphthalene	ND	160
	88-74-4	2-nitroaniline	ND	4100
	131-11-3	dimethyl phthalate	ND	130
	208-96-8	acenaphthylene	ND	290
	99-09-2	3-nitroaniline	ND	4100
	83-32-9	acenaphthene	ND	160
	51-28-5	2,4-dinitrophenol	ND	3400
	100-02-7	4-nitrophenol	ND	200
	132-64-9	dibenzofuran	ND	820
	606-20-2	2,6-dinitrotoluene	ND	160
	121-14-2	2,4-dinitrotoluene	ND	470
	84-66-2	diethylphthalate	ND	160
	7005-72-3	4-chlorophenyl-phenylether	ND	340
	86-73-7	fluorene	ND	160
	100-01-06	4-nitroaniline	ND	4100
	534-52-1	4,6-dinitro-2-methylphenol	ND	2000
	86-30-6	n-nitrosodiphenylamine	ND	160
	101-55-3	4-bromophenyl-phenylether	ND	160
	118-74-1	hexachlorobenzene	ND	160
	87-86-5	pentachlorophenol	ND	290
	85-01-8	phenanthrene	ND	440
	120-12-7	anthracene	ND	160
	84-74-2	di-n-butylphthalate	ND	200
	206-44-0	fluoranthene	ND	180
	92-87-5	benzidine	ND	3600
	129-00-0	pyrene	ND	160
	85-68-7	butylbenzylphthalate	ND	200
	91-94-1	3,3'-dichlorobenzidine	ND	1300
	56-55-3	benzo(a)anthracene	ND	640
1659	117-81-7	bis(2-ethylhexyl)phthalate	550 B	200

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-089
Continued From Above

SAMPLE ID CAR8-02-145 FRACTION 04A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	200
	117-84-0	di-n-octyl phthalate	ND	200
	205-99-2	benzo(b)fluoranthene	ND	390
	207-08-9	benzo(k)fluoranthene	ND	200
	50-32-8	benzo(a)pyrene	ND	200
	193-39-5	indeno(1,2,3-cd)pyrene	ND	300
	53-70-3	dibenz(a,h)anthracene	ND	200
	191-24-2	benzo(ghi)perylene	ND	340

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
395	2-fluorophenol	89 %
518	d5-phenol	86 %
642	d5-nitrobenzene	90 %
912	2-fluorobiphenyl	86 %
1133	2,4,6-tribromophenol	75 %
1485	d14-terphenyl	92 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-089

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 05 FRACTIONS: A

Date & Time Collected not specified Category

EX BNA 02/29/88 GPC 02/29/88
DATE COMPLETED DATE COMPLETED

SAMPLE ID REAGENT BLANK BNA FRACTION 05A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE COMPOUNDS

ANALYST KS EXTRCTD 02/29/88 FILE # 0208905A VERIFIED LAK
INSTRMT F1 INJECTD 03/08/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	670
	108-95-2	phenol	ND	100
	62-53-3	aniline	ND	670
	111-44-4	bis(2-chloroethyl) ether	ND	380
	95-57-8	2-chlorophenol	ND	220
	541-73-1	1,3-dichlorobenzene	ND	130
	106-46-7	1,4-dichlorobenzene	ND	290
	100-51-6	benzyl alcohol	ND	3300
	95-50-1	1,2-dichlorobenzene	ND	130
	95-48-7	2-methylphenol	ND	670
	108-60-1	bis(2-chloroisopropyl)ether	ND	380
	106-44-5	4-methylphenol	ND	670
	621-64-7	n-nitroso-di-n-propylamine	ND	800
	67-72-1	hexachloroethane	ND	110
	98-95-3	nitrobenzene	ND	130
	78-59-1	isophorone	ND	150
	88-75-5	2-nitrophenol	ND	240
	105-67-9	2,4-dimethylphenol	ND	180
	65-85-0	benzoic acid	ND	3300
	111-91-1	bis(2-chloroethoxy)methane	ND	350
	120-83-2	2,4-dichlorophenol	ND	180
	120-82-1	1,2,4-trichlorobenzene	ND	130
	91-20-3	naphthalene	ND	110
	106-47-8	4-chloroaniline	ND	670
	87-68-3	hexachlorobutadiene	ND	60
	59-50-7	4-chloro-3-methylphenol	ND	200
	91-57-6	2-methylnaphthalene	ND	670

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-089
Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 05A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	400
	88-06-2	2,4,6-trichlorophenol	ND	180
	95-95-4	2,4,5-trichlorophenol	ND	670
	91-58-7	2-chloronaphthalene	ND	130
	88-74-4	2-nitroaniline	ND	3300
	131-11-3	dimethyl phthalate	ND	110
	208-96-8	acenaphthylene	ND	230
	99-09-2	3-nitroaniline	ND	3300
	83-32-9	acenaphthene	ND	130
	51-28-5	2,4-dinitrophenol	ND	2800
	100-02-7	4-nitrophenol	ND	160
	132-64-9	dibenzofuran	ND	670
	606-20-2	2,6-dinitrotoluene	ND	130
	121-14-2	2,4-dinitrotoluene	ND	380
	84-66-2	diethylphthalate	ND	130
	7005-72-3	4-chlorophenyl-phenylether	ND	280
	86-73-7	fluorene	ND	130
	100-01-06	4-nitroaniline	ND	3300
	534-52-1	4,6-dinitro-2-methylphenol	ND	1600
	86-30-6	n-nitrosodiphenylamine	ND	130
	101-55-3	4-bromophenyl-phenylether	ND	130
	118-74-1	hexachlorobenzene	ND	130
	87-86-5	pentachlorophenol	ND	240
	85-01-8	phenanthrene	ND	360
	120-12-7	anthracene	ND	130
	84-74-2	di-n-butylphthalate	ND	170
	206-44-0	fluoranthene	ND	150
	92-87-5	benzidine	ND	2900
	129-00-0	pyrene	ND	130
	85-68-7	butylbenzylphthalate	ND	170
	91-94-1	3,3'-dichlorobenzidine	ND	1100
	56-55-3	benzo(a)anthracene	ND	520
1662	117-81-7	bis(2-ethylhexyl)phthalate	330	170

SAMPLE ID REAGENT BLANK BNA FRACTION 05A TEST CODE CL8270 NAME Semivolatile Organics-Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	170
	117-84-0	di-n-octyl phthalate	ND	170
	205-99-2	benzo(b)fluoranthene	ND	320
	207-08-9	benzo(k)fluoranthene	ND	170
	50-32-8	benzo(a)pyrene	ND	170
	193-39-5	indeno(1,2,3-cd)pyrene	ND	250
	53-70-3	dibenz(a,h)anthracene	ND	170
	191-24-2	benzo(ghi)perylene	ND	270

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
397	2-fluorophenol	101 %
521	d5-phenol	98 %
644	d5-nitrobenzene	101 %
914	2-fluorobiphenyl	97 %
1136	2,4,6-tribromophenol	86 %
1489	d14-terphenyl	97 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88 Results by Sample

SAMPLE ID REAGENT BLANK VOA FRACTION 06A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208507A
INSTRMT F4 INJECTD 03/01/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	5.0
	74-83-9	bromomethane	ND	5.0
	75-01-4	vinyl chloride	ND	5.0
	75-00-3	chloroethane	ND	5.0
	75-09-2	methylene chloride	ND	2.8
147	67-64-1	acetone	5.8 J	7.5
	75-15-0	carbon disulfide	ND	1.7
	75-69-4	trichlorofluoromethane	ND	5.0
	75-35-4	1,1-dichloroethene	ND	4.7
	75-34-3	1,1-dichloroethane	ND	2.8
	156-60-5	trans-1,2-dichloroethene	ND	1.6
	67-66-3	chloroform	ND	1.6
	107-06-2	1,2-dichloroethane	ND	2.8
	78-93-3	2-butanone	ND	25
	71-55-6	1,1,1-trichloroethane	ND	3.8
	56-23-5	carbon tetrachloride	ND	2.8
	108-05-4	vinyl acetate	ND	6.9
	75-27-4	bromodichloromethane	ND	2.2
	78-87-5	1,2-dichloropropane	ND	6.0
	10061-01-5	cis-1,3-dichloropropene	ND	5.0
	79-01-6	trichloroethene	ND	1.9
	124-48-1	dibromochloromethane	ND	3.1
	79-00-5	1,1,2-trichloroethane	ND	5.0
	71-43-2	benzene	ND	4.4
	10061-02-6	trans-1,3-dichloropropene	ND	5.0
	110-75-8	2-chloroethylvinyl ether	ND	5.0
	75-25-2	bromoform	ND	4.7
	591-78-6	2-hexanone	ND	36

SAMPLE ID REAGENT BLANK VOA FRACTION Q6A TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	46
	127-18-4	tetrachloroethene	ND	4.1
	79-34-5	1,1,2,2-tetrachloroethane	ND	6.9
	108-88-3	toluene	ND	6.0
	108-90-7	chlorobenzene	ND	6.0
	100-41-4	ethylbenzene	ND	7.2
	100-42-5	styrene	ND	3.0
	95-47-6	total xylenes	ND	4.6

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
229	1,2-dichloroethane-d4	94 %
406	Toluene-d8	99 %
515	BFB	100 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

SAMPLE ID REAGENT BLANK VOA FRACTION 06B TEST CODE CLB240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PURGEABLES

VERIFIED LAK

ANALYST REM EXTRCTD FILE # 0208818A
INSTRMT 5100 INJECTD 03/02/88 UNITS ug/Kg

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	74-87-3	chloromethane	ND	630
	74-83-9	bromomethane	ND	630
	75-01-4	vinyl chloride	ND	630
	75-00-3	chloroethane	ND	630
	75-09-2	methylene chloride	ND	350
114	67-64-1	acetone	3700	940
	75-15-0	carbon disulfide	ND	210
	75-69-4	trichlorofluoromethane	ND	630
	75-35-4	1,1-dichloroethene	ND	590
	75-34-3	1,1-dichloroethane	ND	350
	156-60-5	trans-1,2-dichloroethene	ND	200
	67-66-3	chloroform	ND	200
	107-06-2	1,2-dichloroethane	ND	350
205	78-93-3	2-butanone	5200	3100
	71-55-6	1,1,1-trichloroethane	ND	480
	56-23-5	carbon tetrachloride	ND	350
	108-05-4	vinyl acetate	ND	860
	75-27-4	bromodichloromethane	ND	280
	78-87-5	1,2-dichloropropane	ND	750
	10061-01-5	cis-1,3-dichloropropene	ND	630
	79-01-6	trichloroethene	ND	240
	124-48-1	dibromochloromethane	ND	390
	79-00-5	1,1,2-trichloroethane	ND	630
	71-43-2	benzene	ND	550
	10061-02-6	trans-1,3-dichloropropene	ND	630
	110-75-8	2-chloroethylvinyl ether	ND	630
	75-25-2	bromoform	ND	590
	591-78-6	2-hexanone	ND	4500

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-089
Continued From Above

SAMPLE ID REAGENT BLANK VOA FRACTION 06B TEST CODE CL8240 NAME Purgeable Organics - Soil
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	108-10-1	4-methyl-2-pentanone	ND	5800
	127-18-4	tetrachloroethene	ND	510
	79-34-5	1,1,2,2-tetrachloroethane	ND	860
	108-88-3	toluene	ND	750
	108-90-7	chlorobenzene	ND	750
	100-41-4	ethylbenzene	ND	900
	100-42-5	styrene	ND	380
	95-47-6	total xylenes	ND	580

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
202	1,2-dichloroethane-d4	96 %
391	Toluene-d8	104 %
485	BFB	112 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than minimum detection limit.

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

O1C ! DUP624
O3C ! DUP624

RADIAN CORPORATION

Page 1 RAS Sacramento REPORT Work Order # 88-02-090

Received: 02/25/88 04/04/88 18:37:05

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 6
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: Flight Line
TAKEN: 02/24/88
TRANS: Federal 6730636393
TYPE: H20-509B/604/608/625
P.O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

Paul H Gale
CERTIFIED BY

CONTACT: LARRY FRENCH

Duplicate of report of 03/31/88.

SAMPLE IDENTIFICATION

01	02-150 BNA
01	02-150 HERB.
01	02-150 PEST.
01	02-150 PHENOL
02	02-151 BNA
03	REAGENT BLANK BNA
04	REAGENT BLANK HERB.
05	REAGENT BLANK PEST.
06	REAGENT BLANK PHENOL

TEST CODES and NAMES used on this report

509B	Herbicides in water
604	Phenols in water.
608	EPA-Pest/PCB's Water
CL 625	Semivolatile Organics H20
EXHERB	Extraction for Herbicides
EXPEST	Extraction for Pest/PCBs
EXPHEN	Extraction for Phenols
EX BNA	Semivolatiles extraction

Received: 02/25/88

RAS Sacramento REPORT
Results By Test

Work Order # S8-02-090

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
EXHERR Date completed	02/29/88 DATE COMPLETED			02/29/88 DATE COMPLETED	
EXPEST date completed	02/29/88 DATE COMPLETED				02/29/88 DATE COMPLETED
EXPHEN date completed	02/29/88 DATE COMPLETED				
EX_BNA date completed	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED		

TEST CODE default units	Sample 06 (entered units)
EXPHEN date completed	02/29/88 DATE COMPLETED

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT

Results By Test

Work Order # S8-02-090

SAMPLE Sample Id	Test: EXHERB Date completed	Test: EXPEST date completed	Test: EXPHEN date completed	Test: EX BNA date completed
01 02-150 BNA	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED	02/29/88 DATE COMPLETED
02 02-151 BNA				02/29/88 DATE COMPLETED
03 REAGENT BLANK B				02/29/88 DATE COMPLETED
04 REAGENT BLANK H	02/29/88 DATE COMPLETED			
05 REAGENT BLANK P		02/29/88 DATE COMPLETED		
06 REAGENT BLANK P			02/29/88 DATE COMPLETED	

Received: 02/25/88

Results by Sample

SAMPLE ID 02-150 BNA

SAMPLE # 01 FRACTIONS: C

Date & Time Collected 02/24/88 Category

EX BNA 02/29/88
DATE COMPLETED

KALMAN CORPORATION

 RAS Sacramento REPORT Work Order # SB-02-090

Received: 02/25/88 Results by Sample

SAMPLE ID 02-150 BNA FRACTION 01C TEST CODE CL 625 NAME Semivolatile Organics H2O

Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE HSL COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0209001C VERIFIED LAK

INSTRMT F2 INJECTD 03/02/88 UNITS ug/L

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	10
	108-95-2	phenol	ND	1.5
	62-53-3	aniline	ND	10
	111-44-4	bis(2-chloroethyl) ether	ND	5.7
	95-57-8	2-chlorophenol	ND	3.3
	541-73-1	1,3-dichlorobenzene	ND	1.9
	106-46-7	1,4-dichlorobenzene	ND	4.4
	100-51-6	benzyl alcohol	ND	50
	95-50-1	1,2-dichlorobenzene	ND	1.9
	95-48-7	2-methylphenol	ND	10
	108-60-1	bis(2-chloroisopropyl)ether	ND	5.7
	106-44-5	4-methylphenol	ND	10
	621-64-7	n-nitroso-di-n-propylamine	ND	12
	67-72-1	hexachloroethane	ND	1.6
	98-95-3	nitrobenzene	ND	1.9
	78-59-1	isophorone	ND	2.2
	88-75-5	2-nitrophenol	ND	3.6
	105-67-9	2,4-dimethylphenol	ND	2.7
	65-85-0	benzoic acid	ND	50
	111-91-1	bis(2-chloroethoxy)methane	ND	5.3
	120-83-2	2,4-dichlorophenol	ND	2.7
	120-82-1	1,2,4-trichlorobenzene	ND	1.9
	91-20-3	naphthalene	ND	1.6
	106-47-8	4-chloroaniline	ND	10
	87-68-3	hexachlorobutadiene	ND	0.90
	59-50-7	4-chloro-3-methylphenol	ND	3.0
	91-57-6	2-methylnaphthalene	ND	10

SAMPLE ID 02-150 BNA FRACTION 01C TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	6.0
	88-06-2	2,4,6-trichlorophenol	ND	2.7
	95-95-4	2,4,5-trichlorophenol	ND	10
	91-58-7	2-chloronaphthalene	ND	1.9
	88-74-4	2-nitroaniline	ND	50
	131-11-3	dimethyl phthalate	ND	1.6
	208-96-8	acenaphthylene	ND	3.5
	99-09-2	3-nitroaniline	ND	50
	83-32-9	acenaphthene	ND	1.9
	51-28-5	2,4-dinitrophenol	ND	42
	100-02-7	4-nitrophenol	ND	2.4
	132-64-9	dibenzofuran	ND	10
	606-20-2	2,6-dinitrotoluene	ND	1.9
	121-14-2	2,4-dinitrotoluene	ND	5.7
	84-66-2	diethylphthalate	ND	1.9
	7005-72-3	4-chlorophenyl-phenylether	ND	4.2
	86-73-7	fluorene	ND	1.9
	100-01-06	4-nitroaniline	ND	50
	534-52-1	4,6-dinitro-2-methylphenol	ND	24
	86-30-6	n-nitrosodiphenylamine	ND	1.9
	101-55-3	4-bromophenyl-phenylether	ND	1.9
	118-74-1	hexachlorobenzene	ND	1.9
	87-86-5	pentachlorophenol	ND	3.6
	85-01-8	phenanthrene	ND	5.4
	120-12-7	anthracene	ND	1.9
1220	84-74-2	di-n-butylphthalate	1.6 BJ	2.5
	206-44-0	fluoranthene	ND	2.2
	92-87-5	benzidine	ND	44
	129-00-0	pyrene	ND	1.9
	85-68-7	butylbenzylphthalate	ND	2.5
	91-94-1	3,3'-dichlorobenzidine	ND	17
	56-55-3	benzo(a)anthracene	ND	7.8
1546	117-81-7	bis(2-ethylhexyl)phthalate	110 B	2.5

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-090
Continued From Above

SAMPLE ID 02-150 BNA

FRACTION 01C TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	2.5
1637	117-84-0	di-n-octyl phthalate	1.5 BJ	2.5
	205-99-2	benzo(b)fluoranthene	ND	4.8
	207-08-9	benzo(k)fluoranthene	ND	2.5
	50-32-8	benzo(a)pyrene	ND	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	ND	3.7
	53-70-3	dibenz(a,h)anthracene	ND	2.5
	191-24-2	benzo(ghi)perylene	ND	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
238	2-fluorophenol	73 %
391	d5-phenol	67 %
517	d5-nitrobenzene	72 %
793	2-fluorobiphenyl	58 %
1008	2,4,6-tribromophenol	78 %
1361	d14-terphenyl	66 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-090

SAMPLE ID 02-150 HERB.

SAMPLE # 01 FRACTIONS: D

Date & Time Collected 02/24/88 Category

EXHERB 02/29/88
DATE COMPLETED

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-090

SAMPLE ID 02-150 HERB.

FRACTION 01D TEST CODE 509B NAME Herbicides in water
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
HERBICIDES

VERIFIED JD

ANALYST AL EXTRCTD 02/28/88 FILE # 118031418
INSTRMT 1 INJECTD 03/14/88 FACTOR 2 UNITS UG/L

CAS #	COMPOUND	RESULT	DET. LIMIT	FACTOR
94-75-7	2,4-D	ND	1.0	2
93-72-1	2,4,5-TP (Silvex)	ND	0.20	2
93-76-5	2,4,5-T	ND	0.20	2

SURROGATE

2,4-Dichlorophenyl Acetic Acid 100 % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-090
Continued From Above

SAMPLE ID 02-150 HERB. FRACTION 01D TEST CODE 509B NAME Herbicides in water
Date & Time Collected 02/24/88 Category

D = Not reportable due to dilution

RADIAN CORPORATION

Received: 02/25/88

KAS Sacramento REPORT
Results by Sample

Work Order # S8-02-090

SAMPLE ID 02-150 PEST.

SAMPLE # 01 FRACTIONS: B
Date & Time Collected 02/24/88 Category

EXPEST 02/29/88
DATE COMPLETED

Received: 02/25/88

KAS Sacramento REPORT
Results by Sample

Work Order # 58-02-090

SAMPLE ID 02-150 PEST. FRACTION 01B TEST CODE 608 NAME EPA-Pest/PCB's Water
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/29/88 FILE # 718030827 VERIFIED JD
INSTRMT 7 INJECTD 03/08/88 FACTOR 1 UNITS UG/L

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	0.010	1
58-89-9	gamma-BHC (lindane)	ND	0.010	1
319-85-7	beta-BHC	ND	0.010	1
76-44-8	Heptachlor	ND	0.010	1
319-86-8	delta-BHC	ND	0.010	1
309-00-02	Aldrin	ND	0.010	1
1024-57-3	Heptachlor Epoxide	ND	0.010	1
959-98-8	Endosulfan I	ND	0.010	1
72-55-9	4,4'-DDE	ND	0.010	1
60-57-1	Dieldrin	ND	0.010	1
72-20-8	Endrin	ND	0.010	1
72-54-8	4,4'-DDD	ND	0.010	1
33213-65-9	Endosulfan II	ND	0.030	1
50-29-3	4,4'-DDT	ND	0.020	1
7421-93-4	Endrin Aldehyde	ND	0.020	1
1031-07-8	Endosulfan Sulphate	ND	0.050	1
53494-70-5	Endrin Ketone	ND	0.050	1
72-43-5	Methoxychlor	ND	0.050	1
57-74-9	Chlordane	ND	0.050	1
8001-35-2	Toxaphene	ND	0.50	1
12674-11-2	PCB-1016	ND	0.10	1
11104-28-2	PCB-1221	ND	0.20	1
11141-16-5	PCB-1232	ND	0.20	1
53469-21-9	PCB-1242	ND	0.10	1
12672-29-6	PCB-1248	ND	0.10	1
11097-69-1	PCB-1254	ND	0.20	1
11096-82-5	PCB-1260	ND	0.20	1

SURROGATE 1770-80-5 Dibutylchlorendate 50 % Recovery

SAMPLE ID 02-150 PEST. FRACTION 01B TEST CODE 608 NAME EPA-Pest/PCB's Water
Date & Time Collected 02/24/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/25/88 Results by Sample

SAMPLE ID 02-150 PHENOL SAMPLE # 01 FRACTIONS: A
Date & Time Collected 02/24/88 Category

EXPHEN 02/29/88
DATE COMPLETED

BRADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-090

Received: 02/25/88 Results by Sample

SAMPLE ID 02-150 PHENOL FRACTION 01A TEST CODE 604 NAME Phenols in water.

Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
PHENOLS

VERIFIED JD

ANALYST AL EXTRCTD 02/29/88 FILE # 81803234

INSTRMT 8 INJECTD 03/23/88 FACTOR 1 UNITS UG/L

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
108-95-2	Phenol	ND	0.20	1
95-57-8	2-Chlorophenol	ND	0.20	1
88-75-5	2-Nitrophenol	ND	2.0	1
105-67-9	2,4-Dimethylphenol	ND	0.30	1
120-83-2	2,4-Dichlorophenol	ND	0.50	1
59-50-7	4-Chloro-3-Methylphenol	ND	0.40	1
88-06-2	2,4,6-Trichlorophenol	ND	0.60	1
51-28-5	2,4-Dinitrophenol	ND	13	1
100-02-7	4-Nitrophenol	ND	2.5	1
534-52-1	2-Methyl-4,6-Dinitrophenol	ND	16	1
87-86-5	Pentachlorophenol	ND	7.5	1

SURROGATE

1770-80-5 2-Fluorophenol 110 % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
Confirmation: C = confirmed; NC = not confirmed;
NR = not required; NP = not performed
PC = Previously confirmed
J = Estimated value.
QC = Outside control limits.

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-090
Continued From Above

SAMPLE ID 02-150 PHENOL FRACTION 01A TEST CODE 604 NAME Phenols in water.
Date & Time Collected 02/24/88 Category

D = Not reportable due to dilution

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-090

Received: 02/25/88 Results by Sample

SAMPLE ID 02-151 BNA SAMPLE # 02 FRACTIONS: A

Date & Time Collected 02/24/88 Category

EX_BNA 02/29/88
DATE COMPLETED

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-090

SAMPLE ID 02-151 BNA

FRACTION 02A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE HSL COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0209002A VERIFIED LAK
INSTRMT F2 INJECTD 03/02/88 UNITS ug/L

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	10
	108-95-2	phenol	ND	1.5
	62-53-3	aniline	ND	10
	111-44-4	bis(2-chloroethyl) ether	ND	5.7
	95-57-8	2-chlorophenol	ND	3.3
	541-73-1	1,3-dichlorobenzene	ND	1.9
	106-46-7	1,4-dichlorobenzene	ND	4.4
	100-51-6	benzyl alcohol	ND	50
	95-50-1	1,2-dichlorobenzene	ND	1.9
	95-48-7	2-methylphenol	ND	10
	108-60-1	bis(2-chloroisopropyl)ether	ND	5.7
	106-44-5	4-methylphenol	ND	10
	621-64-7	n-nitroso-di-n-propylamine	ND	12
	67-72-1	hexachloroethane	ND	1.6
	98-95-3	nitrobenzene	ND	1.9
	78-59-1	isophorone	ND	2.2
	88-75-5	2-nitrophenol	ND	3.6
	105-67-9	2,4-dimethylphenol	ND	2.7
	65-85-0	benzoic acid	ND	50
	111-91-1	bis(2-chloroethoxy)methane	ND	5.3
	120-83-2	2,4-dichlorophenol	ND	2.7
	120-82-1	1,2,4-trichlorobenzene	ND	1.9
	91-20-3	naphthalene	ND	1.6
	106-47-8	4-chloroaniline	ND	10
	87-68-3	hexachlorobutadiene	ND	0.90
	59-50-7	4-chloro-3-methylphenol	ND	3.0
	91-57-6	2-methylnaphthalene	ND	10

IRADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-090
Continued From Above

SAMPLE ID 02-151 BNA

FRACTION 02A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	6.0
	88-06-2	2,4,6-trichlorophenol	ND	2.7
	95-95-4	2,4,5-trichlorophenol	ND	10
	91-58-7	2-chloronaphthalene	ND	1.9
	88-74-4	2-nitroaniline	ND	50
	131-11-3	dimethyl phthalate	ND	1.6
	208-96-8	acenaphthylene	ND	3.5
	99-09-2	3-nitroaniline	ND	50
	83-32-9	acenaphthene	ND	1.9
	51-28-5	2,4-dinitrophenol	ND	42
	100-02-7	4-nitrophenol	ND	2.4
	132-64-9	dibenzofuran	ND	10
	606-20-2	2,6-dinitrotoluene	ND	1.9
	121-14-2	2,4-dinitrotoluene	ND	5.7
	84-66-2	diethylphthalate	ND	1.9
	7005-72-3	4-chlorophenyl-phenylether	ND	4.2
	86-73-7	fluorene	ND	1.9
	100-01-06	4-nitroaniline	ND	50
	534-52-1	4,6-dinitro-2-methylphenol	ND	24
	86-30-6	n-nitrosodiphenylamine	ND	1.9
	101-55-3	4-bromophenyl-phenylether	ND	1.9
	118-74-1	hexachlorobenzene	ND	1.9
	87-86-5	pentachlorophenol	ND	3.6
	85-01-8	phenanthrene	ND	5.4
	120-12-7	anthracene	ND	1.9
1222	84-74-2	di-n-butylphthalate	6.1 B	2.5
	206-44-0	fluoranthene	ND	2.2
	92-87-5	benzidine	ND	44
	129-00-0	pyrene	ND	1.9
	85-68-7	butylbenzylphthalate	ND	2.5
	91-94-1	3,3'-dichlorobenzidine	ND	17
	56-55-3	benzo(a)anthracene	ND	7.8
1547	117-81-7	bis(2-ethylhexyl)phthalate	11 B	2.5

SAMPLE ID 02-151 BNA FRACTION 02A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/24/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	2.5
1638	117-84-0	di-n-octyl phthalate	3.8 B	2.5
	205-99-2	benzo(b)fluoranthene	ND	4.8
	207-08-9	benzo(k)fluoranthene	ND	2.5
	50-32-8	benzo(a)pyrene	ND	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	ND	3.7
	53-70-3	dibenz(a,h)anthracene	ND	2.5
	191-24-2	benzo(ghi)perylene	ND	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
236	2-fluorophenol	69 %
371	d5-phenol	69 %
518	d5-nitrobenzene	73 %
794	2-fluorobiphenyl	65 %
1010	2,4,6-tribromophenol	77 %
1363	d14-terphenyl	61 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/25/88

RAS Sacramento REPORT

Results by Sample

Work Order # S8-02-090

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 03 FRACTIONS: A

Date & Time Collected not specified

Category

EX BNA 02/29/88
DATE COMPLETED

SAMPLE ID REAGENT BLANK BNA FRACTION 03A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE HSL COMPOUNDS

ANALYST SAL EXTRCTD 02/29/88 FILE # 0209003A VERIFIED LAK
INSTRMT F2 INJECTD 03/02/88 UNITS ug/L

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	10
	108-95-2	phenol	ND	1.5
	62-53-3	aniline	ND	10
	111-44-4	bis(2-chloroethyl) ether	ND	5.7
	95-57-8	2-chlorophenol	ND	3.3
	541-73-1	1,3-dichlorobenzene	ND	1.9
	106-46-7	1,4-dichlorobenzene	ND	4.4
	100-51-6	benzyl alcohol	ND	50
	95-50-1	1,2-dichlorobenzene	ND	1.9
	95-48-7	2-methylphenol	ND	10
	108-60-1	bis(2-chloroisopropyl)ether	ND	5.7
	106-44-5	4-methylphenol	ND	10
	621-64-7	n-nitroso-di-n-propylamine	ND	12
	67-72-1	hexachloroethane	ND	1.6
	98-95-3	nitrobenzene	ND	1.9
	78-59-1	isophorone	ND	2.2
	88-75-5	2-nitrophenol	ND	3.6
	105-67-9	2,4-dimethylphenol	ND	2.7
	65-85-0	benzoic acid	ND	50
	111-91-1	bis(2-chloroethoxy)methane	ND	5.3
	120-83-2	2,4-dichlorophenol	ND	2.7
	120-82-1	1,2,4-trichlorobenzene	ND	1.9
	91-20-3	naphthalene	ND	1.6
	106-47-8	4-chloroaniline	ND	10
	87-68-3	hexachlorobutadiene	ND	0.90
	59-50-7	4-chloro-3-methylphenol	ND	3.0
	91-57-6	2-methylnaphthalene	ND	10

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-090
Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 03A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	6.0
	88-06-2	2,4,6-trichlorophenol	ND	2.7
	95-95-4	2,4,5-trichlorophenol	ND	10
	91-58-7	2-chloronaphthalene	ND	1.9
	88-74-4	2-nitroaniline	ND	50
	131-11-3	dimethyl phthalate	ND	1.6
	208-96-8	acenaphthylene	ND	3.5
	99-09-2	3-nitroaniline	ND	50
	83-32-9	acenaphthene	ND	1.9
	51-28-5	2,4-dinitrophenol	ND	42
	100-02-7	4-nitrophenol	ND	2.4
	132-64-9	dibenzofuran	ND	10
	606-20-2	2,6-dinitrotoluene	ND	1.9
	121-14-2	2,4-dinitrotoluene	ND	5.7
	84-66-2	diethylphthalate	ND	1.9
	7005-72-3	4-chlorophenyl-phenylether	ND	4.2
	86-73-7	fluorene	ND	1.9
	100-01-06	4-nitroaniline	ND	50
	534-52-1	4,6-dinitro-2-methylphenol	ND	24
	86-30-6	n-nitrosodiphenylamine	ND	1.9
	101-55-3	4-bromophenyl-phenylether	ND	1.9
	118-74-1	hexachlorobenzene	ND	1.9
	87-86-5	pentachlorophenol	ND	3.6
	85-01-8	phenanthrene	ND	5.4
	120-12-7	anthracene	ND	1.9
1214	84-74-2	di-n-butylphthalate	6.3	2.5
	206-44-0	fluoranthene	ND	2.2
	92-87-5	benzidine	ND	44
	129-00-0	pyrene	ND	1.9
	85-68-7	butylbenzylphthalate	ND	2.5
	91-94-1	3,3'-dichlorobenzidine	ND	17
	56-55-3	benzo(a)anthracene	ND	7.8
1545	117-81-7	bis(2-ethylhexyl)phthalate	1.4 J	2.5

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # SB-02-090
Continued From Above

SAMPLE ID REAGENT BLANK BNA

FRACTION 03A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	2.5
1636	117-84-0	di-n-octyl phthalate	1.6 J	2.5
	205-99-2	benzo(b)fluoranthene	ND	4.8
	207-08-9	benzo(k)fluoranthene	ND	2.5
	50-32-8	benzo(a)pyrene	ND	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	ND	3.7
	53-70-3	dibenz(a,h)anthracene	ND	2.5
	191-24-2	benzo(ghi)perylene	ND	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
274	2-fluorophenol	65 %
406	d5-phenol	61 %
523	d5-nitrobenzene	64 %
792	2-fluorobiphenyl	55 %
1007	2,4,6-tribromophenol	76 %
1360	d14-terphenyl	57 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-090

Received: 02/25/88 Results by Sample

SAMPLE ID REAGENT BLANK HERB. SAMPLE # 04 FRACTIONS: A

Date & Time Collected not specified Category

EXHERB 02/29/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # 88-02-090

Received: 02/25/88 Results by Sample

SAMPLE ID REAGENT BLANK HERB. FRACTION 04A TEST CODE 509B NAME Herbicides in water

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
HERBICIDES

VERIFIED JD

ANALYST AL EXTRCTD 02/28/88 FILE # 118031415

INSTRMT 1 INJECTD 03/14/88 FACTOR 1 UNITS UG/L

CAS #	COMPOUND	RESULT	DET. LIMIT	FACTOR
94-75-7	2,4-D	ND	0.50	1
93-72-1	2,4,5-TP (Silvex)	ND	0.10	1
93-76-5	2,4,5-T	ND	0.10	1

SURROGATE

2,4-Dichlorophenyl Acetic Acid 83 % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed

SAMPLE ID REAGENT BLANK HERB. FRACTION 04A TEST CODE 509B NAME Herbicides in water
Date & Time Collected not specified Category

D = Not reportable due to dilution

Received: 02/25/88

Results by Sample

SAMPLE ID REAGENT BLANK PEST. SAMPLE # 05 FRACTIONS: A

Date & Time Collected not specified Category

EXPEST 02/29/88
DATE COMPLETED

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-090

Received: 02/25/88 Results by Sample

SAMPLE ID REAGENT BLANK PEST. FRACTION 05A TEST CODE 608 NAME EPA-Pest/PCB's Water

Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 02/29/88 FILE # 718030814 VERIFIED JD

INSTRMT 7 INJECTD 03/08/88 FACTOR 1 UNITS UG/L

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	0.010	1
58-89-9	gamma-BHC (lindane)	ND	0.010	1
319-85-7	beta-BHC	ND	0.010	1
76-44-8	Heptachlor	ND	0.010	1
319-86-8	delta-BHC	ND	0.010	1
309-00-02	Aldrin	ND	0.010	1
1024-57-3	Heptachlor Epoxide	ND	0.010	1
959-98-8	Endosulfan I	ND	0.010	1
72-55-9	4,4'-DDE	ND	0.010	1
60-57-1	Dieldrin	ND	0.010	1
72-20-8	Endrin	ND	0.010	1
72-54-8	4,4'-DDD	ND	0.010	1
33213-65-9	Endosulfan II	ND	0.030	1
50-29-3	4,4'-DDT	ND	0.020	1
7421-93-4	Endrin Aldehyde	ND	0.020	1
1031-07-8	Endosulfan Sulphate	ND	0.050	1
53494-70-5	Endrin Ketone	ND	0.050	1
72-43-5	Methoxychlor	ND	0.050	1
57-74-9	Chlordane	ND	0.050	1
8001-35-2	Toxaphene	ND	0.50	1
12674-11-2	PCB-1016	ND	0.10	1
11104-28-2	PCB-1221	ND	0.20	1
11141-16-5	PCB-1232	ND	0.20	1
53469-21-9	PCB-1242	ND	0.10	1
12672-29-6	PCB-1248	ND	0.10	1
11097-69-1	PCB-1254	ND	0.20	1
11096-82-5	PCB-1260	ND	0.20	1

SURROGATE 1770-80-5 Dibutylchlorendate 101 % Recovery

SAMPLE ID REAGENT BLANK PEST. FRACTION 05A TEST CODE 608 NAME EPA-Pest/PCB's Water
Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.

DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-090

SAMPLE ID REAGENT BLANK PHENOL

SAMPLE # 06 FRACTIONS: A
Date & Time Collected not specified Category

EXPHEN 02/29/88
DATE COMPLETED

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-090

SAMPLE ID REAGENT BLANK PHENOL FRACTION 06A TEST CODE 604 NAME Phenols in water.
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
PHENOLS

ANALYST AL EXTRCTD 02/29/88 FILE # 81803227 VERIFIED JD
INSTRMT 8 INJECTD 03/22/88 FACTOR 1 UNITS UG/L

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
108-95-2	Phenol	ND	0.20	1
95-57-8	2-Chlorophenol	ND	0.20	1
88-75-5	2-Nitrophenol	ND	2.0	1
105-67-9	2,4-Dimethylphenol	ND	0.30	1
120-83-2	2,4-Dichlorophenol	ND	0.50	1
59-50-7	4-Chloro-3-Methylphenol	ND	0.40	1
88-06-2	2,4,6-Trichlorophenol	ND	0.60	1
51-28-5	2,4-Dinitrophenol	ND	13	1
100-02-7	4-Nitrophenol	ND	2.5	1
534-52-1	2-Methyl-4,6-Dinitrophenol	ND	16	1
87-86-5	Pentachlorophenol	ND	7.5	1

SURROGATE

1770-80-5 2-Fluorophenol 92 % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
Confirmation: C = confirmed; NC = not confirmed;
NR = not required; NP = not performed
PC = Previously confirmed
J = Estimated value.
QC = Outside control limits.

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # 88-02-090

Received: 02/25/88 Results by Sample Continued From Above

SAMPLE ID REAGENT BLANK PHENOL FRACTION 06A TEST CODE 604 NAME Phenols in water.

Date & Time Collected not specified Category

D = Not reportable due to dilution

RADIAN

 RAS Sacramento REPORT Work Order # SB-02-094

Received: 02/25/88 03/29/88 07:48:49

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 3
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: EP Toxicity
TAKEN: 2/24/88
TRANS: Fed Ex:5910117931
TYPE: Soil
P.O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

CERTIFIED BY

CONTACT: LARRY FRENCH

QC=
HERBICIDE SURROGATE RECOVERY OUTSIDE QAPP CONTROL LIMITS OF +-30%.

SAMPLE IDENTIFICATION

01 CARB-02-143 SOIL
02 CARB-02-146 SOIL
03 REAGENT BLANK

TEST CODES and NAMES used on this report

8080	SW846-Pest/PCB's Soil
8150	Herbicides in soil
AG EM	Silver by EM-EPA 200.7
AS GF	Arsenic,low level-EPA206.2
BA EM	Barium by EM
CD EM	Cadmium by EM-EPA 200.7
CR EM	Chromium by EM-EPA 200.7
EP TOX	EP TOX
EXHERB	Extraction for Herbicides
EXPEST	Extraction for Pest/PCBs
HG CV	Mercury by EPA-245.1
PB GF	Lead, low level
SE GF	Selenium,low lev. EPA270.2

RADIAN CORPORATION

RAS Sacramento REPORT

Work Order # 88-02-094

Received: 02/25/88

Results By Test

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)
AG_EM mg/l	0.01 MG/L	<0.007 MG/L	<0.007 MG/L
AS_GF mg/l	<0.004 MG/L	<0.004 MG/L	<0.004 MG/L
BA_EM mg/l	1.0 MG/L	0.79 MG/L	<0.002 MG/L
CD_EM mg/l	0.005 MG/L	<0.004 MG/L	<0.004 MG/L
CR_EM mg/l	0.05 MG/L	<0.007 MG/L	<0.007 MG/L
EP_TOX date complete	03/03/88 DATE COMPLETED	03/03/88 DATE COMPLETED	03/03/88 DATE COMPLETED
EXHERB Date completed	03/08/88 DATE COMPLETED	03/08/88 DATE COMPLETED	03/08/88 DATE COMPLETED
EXPEST date completed	03/03/88 DATE COMPLETED	03/03/88 DATE COMPLETED	03/03/88 DATE COMPLETED
HG_CV mg/l	<0.005 MG/L	<0.005 MG/L	<0.005 MG/L
PB_GF mg/l	0.01 MG/L	0.006 MG/L	<0.002 MG/L
SE_GF mg/l	<0.004 MG/L	<0.004 MG/L	<0.004 MG/L

RADIAN

RAS Sacramento REPORT

Work Order # S8-02-094

Received: 02/25/88

Results By Test

SAMPLE Sample Id	Test: AG EM mg/l	Test: AS GF mg/l	Test: BA EM mg/l	Test: CD EM mg/l	Test: CR EM mg/l
01 CARB-02-143 SOI	0.01 MG/L	<0.004 MG/L	1.0 MG/L	0.005 MG/L	0.05 MG/L
02 CARB-02-146 SOI	<0.007 MG/L	<0.004 MG/L	0.79 MG/L	<0.004 MG/L	<0.007 MG/L
03 REAGENT BLANK	<0.007 MG/L	<0.004 MG/L	<0.002 MG/L	<0.004 MG/L	<0.007 MG/L

SAMPLE Sample Id	Test: EP TOX date complete	Test: EXHERB Date completed	Test: EXPEST date completed	Test: HG CV mg/l	Test: PB GF mg/l
01 CARB-02-143 SOI	03/03/88 DATE COMPLETED	03/08/88 DATE COMPLETED	03/03/88 DATE COMPLETED	<0.005 MG/L	0.01 MG/L
02 CARB-02-146 SOI	03/03/88 DATE COMPLETED	03/08/88 DATE COMPLETED	03/03/88 DATE COMPLETED	<0.005 MG/L	0.006 MG/L
03 REAGENT BLANK	03/03/88 DATE COMPLETED	03/08/88 DATE COMPLETED	03/03/88 DATE COMPLETED	<0.005 MG/L	<0.002 MG/L

SAMPLE Sample Id	Test: SE GF mg/l
01 CARB-02-143 SOI	<0.004 MG/L
02 CARB-02-146 SOI	<0.004 MG/L
03 REAGENT BLANK	<0.004 MG/L

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-094

Received: 02/25/88 Results by Sample

SAMPLE ID CAR8-02-143 SOIL SAMPLE # 01 FRACTIONS: A,B,C

Date & Time Collected 02/24/88 Category

AG_EM	0.01 MG/L	AS_GF	<0.004 MG/L	BA_EM	1.0 MG/L	CD_EM	0.005 MG/L	CR_EM	0.05 MG/L	EP_TOX	03/03/88 DATE COMPLETED
EXHERB	03/08/88 DATE COMPLETED	EXPEST	03/03/88 DATE COMPLETED	HG_CV	<0.005 MG/L	PB_GF	0.01 MG/L	SE_GF	<0.004 MG/L		

Received: 02/25/88

RAS Sacramento REPORT Work Order # S8-02-094
Results by Sample

SAMPLE ID CAR8-02-143 SOIL FRACTION 01B TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 03/03/88 FILE # 718031116 VERIFIED JD
INSTRMT 7 INJECTD 03/11/88 FACTOR 4 UNITS UG/L

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	0.040	4
58-89-9	gamma-BHC (lindane)	ND	0.040	4
319-85-7	beta-BHC	ND	0.040	4
76-44-8	Heptachlor	ND	0.040	4
319-86-8	delta-BHC	ND	0.040	4
309-00-02	Aldrin	ND	0.040	4
1024-57-3	Heptachlor Epoxide	ND	0.040	4
959-98-8	Endosulfan I	ND	0.040	4
72-55-9	4,4'-DDE	ND	0.040	4
60-57-1	Dieldrin	ND	0.040	4
72-20-8	Endrin	ND	0.040	4
72-54-8	4,4'-DDD	ND	0.040	4
33213-65-9	Endosulfan II	ND	0.12	4
50-29-3	4,4'-DDT	ND	0.080	4
7421-93-4	Endrin Aldehyde	ND	0.080	4
1031-07-8	Endosulfan Sulphate	ND	0.20	4
53494-70-5	Endrin Ketone	ND	0.20	4
72-43-5	Methoxychlor	ND	0.20	4
57-74-9	Chlordane	ND	0.20	4
8001-35-2	Toxaphene	ND	2.0	4
12674-11-2	PCB-1016	ND	0.40	4
11104-28-2	PCB-1221	ND	0.80	4
11141-16-5	PCB-1232	ND	0.80	4
53469-21-9	PCB-1242	ND	0.40	4
12672-29-6	PCB-1248	ND	0.40	4
11097-69-1	PCB-1254	ND	0.80	4
11096-82-5	PCB-1260	ND	0.80	4

SURROGATE 1770-80-5 Dibutylchlorendate 99 % Recovery

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-094
Continued From Above

SAMPLE ID CARB-02-143 SOIL FRACTION 01B TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/24/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # 58-02-094

SAMPLE ID CAR8-02-143 SOIL FRACTION 01C TEST CODE 8150 NAME Herbicides in soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
HERBICIDES

ANALYST AL EXTRCTD 03/08/88 FILE # 718031519 VERIFIED JD
INSTRMT 7 INJECTD 03/15/88 FACTOR 2 UNITS UG/L

CAS #	COMPOUND	RESULT	DET. LIMIT	FACTOR
94-75-7	2,4-D	ND	1.0	2
93-72-1	2,4,5-TP (Silvex)	ND	0.20	2
93-76-5	2,4,5-T	ND	0.20	2

SURROGATE

2,4-Dichlorophenyl Acetic Acid 106 % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # S8-02-094

Received: 02/25/88

Results by Sample

SAMPLE ID CAR8-02-146 SOIL SAMPLE # 02 FRACTIONS: A,B,C

Date & Time Collected 02/24/88 Category

AG_EM	<0.007 MG/L	AS_GF	<0.004 MG/L	BA_EM	0.79 MG/L	CD_EM	<0.004 MG/L	CR_EM	<0.007 MG/L	EP_TOX	03/03/88 DATE COMPLETED
EXHERB	03/08/88 DATE COMPLETED	EXPEST	03/03/88 DATE COMPLETED	HG_CV	<0.005 MG/L	PB_GF	0.006 MG/L	SE_GF	<0.004 MG/L		

Received: 02/25/88 Results by Sample

SAMPLE ID CAR8-02-146 SOIL FRACTION 02B TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 03/03/88 FILE # 718031117 VERIFIED JD
INSTRMT 7 INJECTD 03/11/88 FACTOR 8 UNITS UG/L

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	0.080	8
58-89-9	gamma-BHC (lindane)	ND	0.080	8
319-85-7	beta-BHC	ND	0.080	8
76-44-8	Heptachlor	ND	0.080	8
319-86-8	delta-BHC	ND	0.080	8
309-00-02	Aldrin	ND	0.080	8
1024-57-3	Heptachlor Epoxide	ND	0.080	8
959-98-8	Endosulfan I	ND	0.080	8
72-55-9	4,4'-DDE	ND	0.080	8
60-57-1	Dieldrin	ND	0.080	8
72-20-8	Endrin	ND	0.080	8
72-54-8	4,4'-DDD	ND	0.080	8
33213-65-9	Endosulfan II	ND	0.24	8
50-29-3	4,4'-DDT	ND	0.16	8
7421-93-4	Endrin Aldehyde	ND	0.16	8
1031-07-8	Endosulfan Sulphate	ND	0.40	8
53494-70-5	Endrin Ketone	ND	0.40	8
72-43-5	Methoxychlor	ND	0.40	8
57-74-9	Chlordane	ND	0.40	8
8001-35-2	Toxaphene	ND	4.0	8
12674-11-2	PCB-1016	ND	0.80	8
11104-28-2	PCB-1221	ND	1.6	8
11141-16-5	PCB-1232	ND	1.6	8
53469-21-9	PCB-1242	ND	0.80	8
12672-29-6	PCB-1248	ND	0.80	8
11097-69-1	PCB-1254	ND	1.6	8
11096-82-5	PCB-1260	ND	1.6	8

SURROGATE 1770-80-5 Dibutylchlorendate 99 % Recovery

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-094
Continued From Above

SAMPLE ID CAR8-02-146 SOIL

FRACTION 02B TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected 02/24/88 Category

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-094

SAMPLE ID CAR8-02-146 SOIL FRACTION 02C TEST CODE 8150 NAME Herbicides in soil
Date & Time Collected 02/24/88 Category

ORGANICS ANALYSIS DATA SHEET
HERBICIDES

ANALYST AL EXTRCTD 03/08/88 FILE # 718031520 VERIFIED JD
INSTRMT 7 INJECTD 03/15/88 FACTOR 1.9 UNITS UG/L

CAS #	COMPOUND	RESULT	DET. LIMIT	FACTOR
94-75-7	2,4-D	ND	0.95	1.9
93-72-1	2,4,5-TP (Silvex)	ND	0.19	1.9
93-76-5	2,4,5-T	ND	0.19	1.9

SURROGATE

2,4-Dichlorophenyl Acetic Acid 89 % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-094

SAMPLE ID REAGENT BLANK SAMPLE # 03 FRACTIONS: A,B,C
Date & Time Collected not specified Category

AG_EM	<0.007 MG/L	AS_GF	<0.004 MG/L	BA_EM	<0.002 MG/L	CD_EM	<0.004 MG/L	CR_EM	<0.007 MG/L	EP_TOX	03/03/88 DATE COMPLETED
EXHERB	03/08/88 DATE COMPLETED	EXPEST	03/03/88 DATE COMPLETED	HG_CV	<0.005 MG/L	PB_GF	<0.002 MG/L	SE_GF	<0.004 MG/L		

SAMPLE ID REAGENT BLANK FRACTION 03B TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET - PESTICIDES

ANALYST AL EXTRCTD 03/03/88 FILE # 718031113 VERIFIED JD
INSTRMT 7 INJECTD 03/11/88 FACTOR 1 UNITS UG/L

CAS #	COMPOUND	RESULT	DET LIMIT	FACTOR
319-84-6	alpha-BHC	ND	0.010	1
58-89-9	gamma-BHC (lindane)	ND	0.010	1
319-85-7	beta-BHC	ND	0.010	1
76-44-8	Heptachlor	ND	0.010	1
319-86-8	delta-BHC	ND	0.010	1
309-00-02	Aldrin	ND	0.010	1
1024-57-3	Heptachlor Epoxide	ND	0.010	1
959-98-8	Endosulfan I	ND	0.010	1
72-55-9	4,4'-DDE	ND	0.010	1
60-57-1	Dieldrin	ND	0.010	1
72-20-8	Endrin	ND	0.010	1
72-54-8	4,4'-DDD	ND	0.010	1
33213-65-9	Endosulfan II	ND	0.030	1
50-29-3	4,4'-DDT	ND	0.020	1
7421-93-4	Endrin Aldehyde	ND	0.020	1
1031-07-8	Endosulfan Sulphate	ND	0.050	1
53494-70-5	Endrin Ketone	ND	0.050	1
72-43-5	Methoxychlor	ND	0.050	1
57-74-9	Chlordane	ND	0.050	1
8001-35-2	Toxaphene	ND	0.50	1
12674-11-2	PCB-1016	ND	0.10	1
11104-28-2	PCB-1221	ND	0.20	1
11141-16-5	PCB-1232	ND	0.20	1
53469-21-9	PCB-1242	ND	0.10	1
12672-29-6	PCB-1248	ND	0.10	1
11097-69-1	PCB-1254	ND	0.20	1
11096-82-5	PCB-1260	ND	0.20	1

SURROGATE 1770-80-5 Dibutylchlorendate 105 % Recovery

RADIAN CORPORATION

Received: 02/25/88

RAS Sacramento REPORT
Results by Sample

Work Order # 88-02-094
Continued From Above

SAMPLE ID REAGENT BLANK FRACTION 03B TEST CODE 8080 NAME SW846-Pest/PCB's Soil
Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

Received: 02/25/88 Results by Sample

SAMPLE ID REAGENT BLANK FRACTION 03C TEST CODE 8150 NAME Herbicides in soil
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
HERBICIDES

ANALYST AL EXTRCTD 03/08/88 FILE # 718031513 VERIFIED JD
INSTRMT 7 INJECTD 03/15/88 FACTOR 1 UNITS UG/L

CAS #	COMPOUND	RESULT	DET. LIMIT	FACTOR
94-75-7	2,4-D	ND	0.50	1
93-72-1	2,4,5-TP (Silvex)	ND	0.10	1
93-76-5	2,4,5-T	ND	0.10	1

SURROGATE

2,4-Dichlorophenyl Acetic Acid 50 QC % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
NS = not spiked.
N\A = not available.
* = less than 5 times the detection limit.
J = Estimated value.
QC = Outside control limits.
C = Confirmed NC = Not confirmed
D = Not reportable due to dilution

RADIAN CORPORATION

 RAS Sacramento REPORT Work Order # 88-02-099

Received: 02/29/88 03/30/88 15:12:43

REPORT TO: Radian Corporation
8501 MoPac Blvd.
Austin, Tx 78766

ATTEN: Larry French

CLIENT: CARSWELL AFB SAMPLES: 5
COMPANY: Carswell AFB.
FACILITY: Headquarters, SAC
Offutt, Nebraska 68113

WORK ID: Site 1,4 & 12
TAKEN: 02/25-02/26/88
TRANS: Federal 284891625/6942334324
TYPE: H20-Method 625
P.O. #: 227-005-04-40
INVOICE: under separate cover

PREPARED BY: Radian Analytical Services
10395 Old Placerville Road
Sacramento,
California 95827

ATTEN:
PHONE: 916-362-5332

Lucas A. Peterson
CERTIFIED BY

CONTACT LARRY FRENCH

SAMPLE IDENTIFICATION

01 02-154
02 02-156
03 02-159
04 METHOD SPIKE BNA
05 REAGENT BLANK BNA

TEST CODES and NAMES used on this report

CL 625 Semivolatile Organics H20
EX BNA Semivolatiles extraction

Received: 02/29/88

RAS Sacramento REPORT

Results By Test

Work Order # S8-02-099

TEST CODE default units	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
EX_BNA date completed	03/01/88 DATE COMPLETED	03/01/88 DATE COMPLETED	03/01/88 DATE COMPLETED	03/01/88 DATE COMPLETED	03/01/88 DATE COMPLETED

RADIAN CORPORATION

Received: 02/29/88

RAS Sacramento REPORT

Results By Test

Work Order # S8-02-099

SAMPLE Sample Id	Test: EX BNA date completed
01	03/01/88
02-154	DATE COMPLETED
02	03/01/88
02-156	DATE COMPLETED
03	03/01/88
02-159	DATE COMPLETED
04	03/01/88
METHOD SPIKE BN	DATE COMPLETED
05	03/01/88
REAGENT BLANK B	DATE COMPLETED

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099

SAMPLE ID 02-154

SAMPLE # 01 FRACTIONS: A
Date & Time Collected 02/25/88 Category

EX BNA 03/01/88
DATE COMPLETED

BRADMAN CORPORATION

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099

SAMPLE ID 02-154 FRACTION 01A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/25/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE HSL COMPOUNDS

ANALYST SAL EXTRCTD 03/01/88 FILE # 0209901A VERIFIED LAK
INSTRMT F2 INJECTD 03/09/88 UNITS ug/L

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	10
	108-95-2	phenol	ND	1.5
	62-53-3	aniline	ND	10
	111-44-4	bis(2-chloroethyl) ether	ND	5.9
	95-57-8	2-chlorophenol	ND	3.4
	541-73-1	1,3-dichlorobenzene	ND	2.0
	106-46-7	1,4-dichlorobenzene	ND	4.5
	100-51-6	benzyl alcohol	ND	52
	95-50-1	1,2-dichlorobenzene	ND	2.0
	95-48-7	2-methylphenol	ND	10
	108-60-1	bis(2-chloroisopropyl)ether	ND	5.9
	106-44-5	4-methylphenol	ND	10
	621-64-7	n-nitroso-di-n-propylamine	ND	12
	67-72-1	hexachloroethane	ND	1.6
	98-95-3	nitrobenzene	ND	2.0
	78-59-1	isophorone	ND	2.3
	88-75-5	2-nitrophenol	ND	3.7
	105-67-9	2,4-dimethylphenol	ND	2.8
	65-85-0	benzoic acid	ND	52
	111-91-1	bis(2-chloroethoxy)methane	ND	5.5
	120-83-2	2,4-dichlorophenol	ND	2.8
	120-82-1	1,2,4-trichlorobenzene	ND	2.0
	91-20-3	naphthalene	ND	1.6
	106-47-8	4-chloroaniline	ND	10
	87-68-3	hexachlorobutadiene	ND	0.93
	59-50-7	4-chloro-3-methylphenol	ND	3.1
	91-57-6	2-methylnaphthalene	ND	10

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099
Continued From Above

SAMPLE ID 02-154 FRACTION 01A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/25/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	6.2
	88-06-2	2,4,6-trichlorophenol	ND	2.8
	95-95-4	2,4,5-trichlorophenol	ND	10
	91-58-7	2-chloronaphthalene	ND	2.0
	88-74-4	2-nitroaniline	ND	52
	131-11-3	dimethyl phthalate	ND	1.6
	208-96-8	acenaphthylene	ND	3.6
	99-09-2	3-nitroaniline	ND	52
	83-32-9	acenaphthene	ND	2.0
	51-28-5	2,4-dinitrophenol	ND	43
	100-02-7	4-nitrophenol	ND	2.5
	132-64-9	dibenzofuran	ND	10
	606-20-2	2,6-dinitrotoluene	ND	2.0
	121-14-2	2,4-dinitrotoluene	ND	5.9
	84-66-2	diethylphthalate	ND	2.0
	7005-72-3	4-chlorophenyl-phenylether	ND	4.3
	86-73-7	fluorene	ND	2.0
	100-01-06	4-nitroaniline	ND	52
	534-52-1	4,6-dinitro-2-methylphenol	ND	25
	86-30-6	n-nitrosodiphenylamine	ND	2.0
	101-55-3	4-bromophenyl-phenylether	ND	2.0
	118-74-1	hexachlorobenzene	ND	2.0
	87-86-5	pentachlorophenol	ND	3.7
	85-01-8	phenanthrene	ND	5.6
	120-12-7	anthracene	ND	2.0
1203	84-74-2	di-n-butylphthalate	4.2 B	2.6
	206-44-0	fluoranthene	ND	2.3
	92-87-5	benzidine	ND	45
	129-00-0	pyrene	ND	2.0
	85-68-7	butylbenzylphthalate	ND	2.6
	91-94-1	3,3'-dichlorobenzidine	ND	17
	56-55-3	benzo(a)anthracene	ND	8.0
1527	117-81-7	bis(2-ethylhexyl)phthalate	17	2.6

RADIAN CORPORATION

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099
Continued From Above

SAMPLE ID 02-154

FRACTION 01A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/25/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	2.6
	117-84-0	di-n-octyl phthalate	ND	2.6
	205-99-2	benzo(b)fluoranthene	ND	4.9
	207-08-9	benzo(k)fluoranthene	ND	2.6
	50-32-8	benzo(a)pyrene	ND	2.6
	193-39-5	indeno(1,2,3-cd)pyrene	ND	3.8
	53-70-3	dibenz(a,h)anthracene	ND	2.6
	191-24-2	benzo(ghi)perylene	ND	4.2

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
224	2-fluorophenol	81 %
377	d5-phenol	81 %
501	d5-nitrobenzene	88 %
776	2-fluorobiphenyl	78 %
990	2,4,6-tribromophenol	75 %
1342	d14-terphenyl	121 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099

SAMPLE ID 02-156

SAMPLE # 02 FRACTIONS: A
Date & Time Collected 02/25/88 Category

EX BNA 03/01/88
DATE COMPLETED

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099

SAMPLE ID 02-156

FRACTION 02A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/25/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE HSL COMPOUNDS

ANALYST SAL EXTRCTD 03/01/88 FILE # 0209902A VERIFIED LAK
INSTRMT F2 INJECTD 03/09/88 UNITS ug/L

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	10
	108-95-2	phenol	ND	1.5
	62-53-3	aniline	ND	10
	111-44-4	bis(2-chloroethyl) ether	ND	5.7
	95-57-8	2-chlorophenol	ND	3.3
	541-73-1	1,3-dichlorobenzene	ND	1.9
	106-46-7	1,4-dichlorobenzene	ND	4.4
	100-51-6	benzyl alcohol	ND	50
	95-50-1	1,2-dichlorobenzene	ND	1.9
	95-48-7	2-methylphenol	ND	10
	108-60-1	bis(2-chloroisopropyl)ether	ND	5.7
	106-44-5	4-methylphenol	ND	10
	621-64-7	n-nitroso-di-n-propylamine	ND	12
	67-72-1	hexachloroethane	ND	1.6
	98-95-3	nitrobenzene	ND	1.9
	78-59-1	isophorone	ND	2.2
	88-75-5	2-nitrophenol	ND	3.6
	105-67-9	2,4-dimethylphenol	ND	2.7
	65-85-0	benzoic acid	ND	50
	111-91-1	bis(2-chloroethoxy)methane	ND	5.3
	120-83-2	2,4-dichlorophenol	ND	2.7
	120-82-1	1,2,4-trichlorobenzene	ND	1.9
	91-20-3	naphthalene	ND	1.6
	106-47-8	4-chloroaniline	ND	10
	87-68-3	hexachlorobutadiene	ND	0.90
	59-50-7	4-chloro-3-methylphenol	ND	3.0
	91-57-6	2-methylnaphthalene	ND	10

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099
Continued From Above

SAMPLE ID 02-156 FRACTION 02A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/25/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	6.0
	88-06-2	2,4,6-trichlorophenol	ND	2.7
	95-95-4	2,4,5-trichlorophenol	ND	10
	91-58-7	2-chloronaphthalene	ND	1.9
	88-74-4	2-nitroaniline	ND	50
	131-11-3	dimethyl phthalate	ND	1.6
	208-96-8	acenaphthylene	ND	3.5
	99-09-2	3-nitroaniline	ND	50
	83-32-9	acenaphthene	ND	1.9
	51-28-5	2,4-dinitrophenol	ND	42
	100-02-7	4-nitrophenol	ND	2.4
	132-64-9	dibenzofuran	ND	10
	606-20-2	2,6-dinitrotoluene	ND	1.9
	121-14-2	2,4-dinitrotoluene	ND	5.7
	84-66-2	diethylphthalate	ND	1.9
	7005-72-3	4-chlorophenyl-phenylether	ND	4.2
	86-73-7	fluorene	ND	1.9
	100-01-06	4-nitroaniline	ND	50
	534-52-1	4,6-dinitro-2-methylphenol	ND	24
	86-30-6	n-nitrosodiphenylamine	ND	1.9
	101-55-3	4-bromophenyl-phenylether	ND	1.9
	118-74-1	hexachlorobenzene	ND	1.9
	87-86-5	pentachlorophenol	ND	3.6
	85-01-8	phenanthrene	ND	5.4
	120-12-7	anthracene	ND	1.9
1203	84-74-2	di-n-butylphthalate	4.6 B	2.5
	206-44-0	fluoranthene	ND	2.2
	92-87-5	benzidine	ND	44
	129-00-0	pyrene	ND	1.9
	85-68-7	butylbenzylphthalate	ND	2.5
	91-94-1	3,3'-dichlorobenzidine	ND	17
	56-55-3	benzo(a)anthracene	ND	7.8
1528	117-81-7	bis(2-ethylhexyl)phthalate	6.0	2.5

RADIAN CORPORATION

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099
Continued From Above

SAMPLE ID 02-156 FRACTION 02A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/25/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	2.5
	117-84-0	di-n-octyl phthalate	ND	2.5
	205-99-2	benzo(b)fluoranthene	ND	4.8
	207-08-9	benzo(k)fluoranthene	ND	2.5
	50-32-8	benzo(a)pyrene	ND	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	ND	3.7
	53-70-3	dibenz(a,h)anthracene	ND	2.5
	191-24-2	benzo(ghi)perylene	ND	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
265	2-fluorophenol	83 %
395	d5-phenol	75 %
511	d5-nitrobenzene	91 %
777	2-fluorobiphenyl	84 %
991	2,4,6-tribromophenol	84 %
1343	d14-terphenyl	126 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099

SAMPLE ID 02-159

SAMPLE # 03 FRACTIONS: A
Date & Time Collected 02/26/88 Category

EX BNA 03/01/88
DATE COMPLETED

Received: 02/29/88

Results by Sample

SAMPLE ID 02-159 FRACTION 03A TEST CODE CL 625 NAME Semivolatile Organics H2O

Date & Time Collected 02/26/88 Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE HSL COMPOUNDS

ANALYST SAL EXTRCTD 03/01/88 FILE # 0209903A VERIFIED LAK

INSTRMT F2 INJECTD 03/09/88 UNITS ug/L

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	11
	108-95-2	phenol	ND	1.6
	62-53-3	aniline	ND	11
	111-44-4	bis(2-chloroethyl) ether	ND	6.0
	95-57-8	2-chlorophenol	ND	3.5
	541-73-1	1,3-dichlorobenzene	ND	2.0
	106-46-7	1,4-dichlorobenzene	ND	4.7
	100-51-6	benzyl alcohol	ND	53
	95-50-1	1,2-dichlorobenzene	ND	2.0
	95-48-7	2-methylphenol	ND	11
	108-60-1	bis(2-chloroisopropyl)ether	ND	6.0
	106-44-5	4-methylphenol	ND	11
	621-64-7	n-nitroso-di-n-propylamine	ND	13
	67-72-1	hexachloroethane	ND	1.7
	98-95-3	nitrobenzene	ND	2.0
	78-59-1	isophorone	ND	2.3
	88-75-5	2-nitrophenol	ND	3.8
	105-67-9	2,4-dimethylphenol	ND	2.9
	65-85-0	benzoic acid	ND	53
	111-91-1	bis(2-chloroethoxy)methane	ND	5.6
	120-83-2	2,4-dichlorophenol	ND	2.9
	120-82-1	1,2,4-trichlorobenzene	ND	2.0
	91-20-3	naphthalene	ND	1.7
	106-47-8	4-chloroaniline	ND	11
	87-68-3	hexachlorobutadiene	ND	0.95
	59-50-7	4-chloro-3-methylphenol	ND	3.2
	91-57-6	2-methylnaphthalene	ND	11

SAMPLE ID 02-159 FRACTION 03A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	6.4
	88-06-2	2,4,6-trichlorophenol	ND	2.9
	95-95-4	2,4,5-trichlorophenol	ND	11
	91-58-7	2-chloronaphthalene	ND	2.0
	88-74-4	2-nitroaniline	ND	53
	131-11-3	dimethyl phthalate	ND	1.7
	208-96-8	acenaphthylene	ND	3.7
	99-09-2	3-nitroaniline	ND	53
	83-32-9	acenaphthene	ND	2.0
	51-28-5	2,4-dinitrophenol	ND	45
	100-02-7	4-nitrophenol	ND	2.5
	132-64-9	dibenzofuran	ND	11
	606-20-2	2,6-dinitrotoluene	ND	2.0
	121-14-2	2,4-dinitrotoluene	ND	6.0
	84-66-2	diethylphthalate	ND	2.0
	7005-72-3	4-chlorophenyl-phenylether	ND	4.5
	86-73-7	fluorene	ND	2.0
	100-01-06	4-nitroaniline	ND	53
	534-52-1	4,6-dinitro-2-methylphenol	ND	25
	86-30-6	n-nitrosodiphenylamine	ND	2.0
	101-55-3	4-bromophenyl-phenylether	ND	2.0
	118-74-1	hexachlorobenzene	ND	2.0
	87-86-5	pentachlorophenol	ND	3.8
	85-01-8	phenanthrene	ND	5.7
	120-12-7	anthracene	ND	2.0
	84-74-2	di-n-butylphthalate	ND	2.7
	206-44-0	fluoranthene	ND	2.3
	92-87-5	benzidine	ND	47
	129-00-0	pyrene	ND	2.0
	85-68-7	butylbenzylphthalate	ND	2.7
	91-94-1	3,3'-dichlorobenzidine	ND	17
	56-55-3	benzo(a)anthracene	ND	8.3
1527	117-81-7	bis(2-ethylhexyl)phthalate	4.1	2.7

SAMPLE ID 02-159 FRACTION 03A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected 02/26/88 Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	2.7
	117-84-0	di-n-octyl phthalate	ND	2.7
	205-99-2	benzo(b)fluoranthene	ND	5.1
	207-08-9	benzo(k)fluoranthene	ND	2.7
	50-32-8	benzo(a)pyrene	ND	2.7
	193-39-5	indeno(1,2,3-cd)pyrene	ND	3.9
	53-70-3	dibenz(a,h)anthracene	ND	2.7
	191-24-2	benzo(ghi)perylene	ND	4.3

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
203	2-fluorophenol	78 %
361	d5-phenol	76 %
495	d5-nitrobenzene	96 %
774	2-fluorobiphenyl	86 %
989	2,4,6-tribromophenol	46 %
1341	d14-terphenyl	103 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

Received: 02/29/88

Results by Sample

SAMPLE ID METHOD SPIKE BNA SAMPLE # 04 FRACTIONS: A

Date & Time Collected not specified Category

EX BNA 03/01/88
DATE COMPLETED

SAMPLE ID METHOD SPIKE BNA FRACTION 04A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE HSL COMPOUNDS

ANALYST SAL EXTRCTD 03/02/88 FILE # 0209904A VERIFIED LAK
INSTRMT F2 INJECTD 03/09/88 UNITS %

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
118	62-75-9	n-nitrosodimethylamine	24	10
374	108-95-2	phenol	87	1.5
	62-53-3	aniline	NA	10
381	111-44-4	bis(2-chloroethyl) ether	88	5.7
383	95-57-8	2-chlorophenol	87	3.3
404	541-73-1	1,3-dichlorobenzene	53	1.9
413	106-46-7	1,4-dichlorobenzene	60	4.4
	100-51-6	benzyl alcohol	NA	50
441	95-50-1	1,2-dichlorobenzene	63	1.9
	95-48-7	2-methylphenol	NA	10
467	108-60-1	bis(2-chloroisopropyl)ether	87	5.7
	106-44-5	4-methylphenol	NA	10
487	621-64-7	n-nitroso-di-n-propylamine	98	12
488	67-72-1	hexachloroethane	56	1.6
502	98-95-3	nitrobenzene	92	1.9
541	78-59-1	isophorone	120	2.2
551	88-75-5	2-nitrophenol	90	3.6
568	105-67-9	2,4-dimethylphenol	42	2.7
	65-85-0	benzoic acid	NA	50
581	111-91-1	bis(2-chloroethoxy)methane	91	5.3
589	120-83-2	2,4-dichlorophenol	88	2.7
600	120-82-1	1,2,4-trichlorobenzene	88	1.9
607	91-20-3	naphthalene	86	1.6
	106-47-8	4-chloroaniline	NA	10
641	87-68-3	hexachlorobutadiene	79	0.90
703	59-50-7	4-chloro-3-methylphenol	97	3.0
	91-57-6	2-methylnaphthalene	NA	10

SAMPLE ID METHOD SPIKE BNA FRACTION 04A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
750	77-47-4	hexachlorocyclopentadiene	13	6.0
762	88-06-2	2,4,6-trichlorophenol	90	2.7
	95-95-4	2,4,5-trichlorophenol	NA	10
784	91-58-7	2-chloronaphthalene	100	1.9
	88-74-4	2-nitroaniline	NA	50
845	131-11-3	dimethyl phthalate	18	1.6
846	208-96-8	acenaphthylene	96	3.5
	99-09-2	3-nitroaniline	NA	50
874	83-32-9	acenaphthene	110	1.9
885	51-28-5	2,4-dinitrophenol	99	42
903	100-02-7	4-nitrophenol	100	2.4
	132-64-9	dibenzofuran	NA	10
851	606-20-2	2,6-dinitrotoluene	120	1.9
909	121-14-2	2,4-dinitrotoluene	120	5.7
953	84-66-2	diethylphthalate	47	1.9
956	7005-72-3	4-chlorophenyl-phenylether	94	4.2
950	86-73-7	fluorene	100	1.9
	100-01-06	4-nitroaniline	NA	50
969	534-52-1	4,6-dinitro-2-methylphenol	110	24
975	86-30-6	n-nitrosodiphenylamine	270	1.9
1028	101-55-3	4-bromophenyl-phenylether	96	1.9
1046	118-74-1	hexachlorobenzene	99	1.9
1074	87-86-5	pentachlorophenol	74	3.6
1093	85-01-8	phenanthrene	99	5.4
1100	120-12-7	anthracene	130	1.9
1202	84-74-2	di-n-butylphthalate	99 B	2.5
1274	206-44-0	fluoranthene	95	2.2
1300	92-87-5	benzidine	11	44
1306	129-00-0	pyrene	88	1.9
1428	85-68-7	butylbenzylphthalate	89	2.5
1495	91-94-1	3,3'-dichlorobenzidine	130	17
1493	56-55-3	benzo(a)anthracene	99	7.8
1526	117-81-7	bis(2-ethylhexyl)phthalate	96	2.5

RADIAN CORPORATION

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099
Continued From Above

SAMPLE ID METHOD SPIKE BNA FRACTION 04A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
1499	218-01-9	chrysene	86	2.5
1616	117-84-0	di-n-octyl phthalate	83	2.5
1650	205-99-2	benzo(b)fluoranthene	89	4.8
1654	207-08-9	benzo(k)fluoranthene	87	2.5
1693	50-32-8	benzo(a)pyrene	140	2.5
1891	193-39-5	indeno(1,2,3-cd)pyrene	100	3.7
1897	53-70-3	dibenz(a,h)anthracene	110	2.5
1946	191-24-2	benzo(ghi)perylene	99	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
217	2-fluorophenol	84 %
372	d5-phenol	87 %
499	d5-nitrobenzene	98 %
774	2-fluorobiphenyl	94 %
989	2,4,6-tribromophenol	100 %
1341	d14-terphenyl	102 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

RAS Sacramento REPORT

Work Order # S8-02-099

Received: 02/29/88

Results by Sample

SAMPLE ID REAGENT BLANK BNA

SAMPLE # 05 FRACTIONS: A

Date & Time Collected not specified Category

EX BNA 03/01/88
DATE COMPLETED

SAMPLE ID REAGENT BLANK BNA FRACTION 05A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

ORGANICS ANALYSIS DATA SHEET
SEMIVOLATILE HSL COMPOUNDS

ANALYST SAL EXTRCTD 03/01/88 FILE # 0209905A VERIFIED LAK
INSTRMT F2 INJECTD 03/09/88 UNITS ug/L

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	62-75-9	n-nitrosodimethylamine	ND	10
	108-95-2	phenol	ND	1.5
	62-53-3	aniline	ND	10
	111-44-4	bis(2-chloroethyl) ether	ND	5.7
	95-57-8	2-chlorophenol	ND	3.3
	541-73-1	1,3-dichlorobenzene	ND	1.9
	106-46-7	1,4-dichlorobenzene	ND	4.4
	100-51-6	benzyl alcohol	ND	50
	95-50-1	1,2-dichlorobenzene	ND	1.9
	95-48-7	2-methylphenol	ND	10
	108-60-1	bis(2-chloroisopropyl)ether	ND	5.7
	106-44-5	4-methylphenol	ND	10
	621-64-7	n-nitroso-di-n-propylamine	ND	12
	67-72-1	hexachloroethane	ND	1.6
	98-95-3	nitrobenzene	ND	1.9
	78-59-1	isophorone	ND	2.2
	88-75-5	2-nitrophenol	ND	3.6
	105-67-9	2,4-dimethylphenol	ND	2.7
	65-85-0	benzoic acid	ND	50
	111-91-1	bis(2-chloroethoxy)methane	ND	5.3
	120-83-2	2,4-dichlorophenol	ND	2.7
	120-82-1	1,2,4-trichlorobenzene	ND	1.9
	91-20-3	naphthalene	ND	1.6
	106-47-8	4-chloroaniline	ND	10
	87-68-3	hexachlorobutadiene	ND	0.90
	59-50-7	4-chloro-3-methylphenol	ND	3.0
	91-57-6	2-methylnaphthalene	ND	10

Received: 02/29/88

RAS Sacramento REPORT
Results by Sample

Work Order # S8-02-099
Continued From Above

SAMPLE ID REAGENT BLANK BNA FRACTION 05A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	77-47-4	hexachlorocyclopentadiene	ND	6.0
	88-06-2	2,4,6-trichlorophenol	ND	2.7
	95-95-4	2,4,5-trichlorophenol	ND	10
	91-58-7	2-chloronaphthalene	ND	1.9
	88-74-4	2-nitroaniline	ND	50
	131-11-3	dimethyl phthalate	ND	1.6
	208-96-8	acenaphthylene	ND	3.5
	99-09-2	3-nitroaniline	ND	50
	83-32-9	acenaphthene	ND	1.9
	51-28-5	2,4-dinitrophenol	ND	42
	100-02-7	4-nitrophenol	ND	2.4
	132-64-9	dibenzofuran	ND	10
	606-20-2	2,6-dinitrotoluene	ND	1.9
	121-14-2	2,4-dinitrotoluene	ND	5.7
	84-66-2	diethylphthalate	ND	1.9
	7005-72-3	4-chlorophenyl-phenylether	ND	4.2
	86-73-7	fluorene	ND	1.9
	100-01-06	4-nitroaniline	ND	50
	534-52-1	4,6-dinitro-2-methylphenol	ND	24
	86-30-6	n-nitrosodiphenylamine	ND	1.9
	101-55-3	4-bromophenyl-phenylether	ND	1.9
	118-74-1	hexachlorobenzene	ND	1.9
	87-86-5	pentachlorophenol	ND	3.6
	85-01-8	phenanthrene	ND	5.4
	120-12-7	anthracene	ND	1.9
1204	84-74-2	di-n-butylphthalate	11	2.5
	206-44-0	fluoranthene	ND	2.2
	92-87-5	benzidine	ND	44
	129-00-0	pyrene	ND	1.9
	85-68-7	butylbenzylphthalate	ND	2.5
	91-94-1	3,3'-dichlorobenzidine	ND	17
	56-55-3	benzo(a)anthracene	ND	7.8
	117-81-7	bis(2-ethylhexyl)phthalate	ND	2.5

SAMPLE ID REAGENT BLANK BNA FRACTION 05A TEST CODE CL 625 NAME Semivolatile Organics H2O
Date & Time Collected not specified Category

SCAN	CAS #	COMPOUND	RESULT	DET LIMIT
	218-01-9	chrysene	ND	2.5
	117-84-0	di-n-octyl phthalate	ND	2.5
	205-99-2	benzo(b)fluoranthene	ND	4.8
	207-08-9	benzo(k)fluoranthene	ND	2.5
	50-32-8	benzo(a)pyrene	ND	2.5
	193-39-5	indeno(1,2,3-cd)pyrene	ND	3.7
	53-70-3	dibenz(a,h)anthracene	ND	2.5
	191-24-2	benzo(ghi)perylene	ND	4.1

SURROGATE RECOVERIES

SCAN	COMPOUND	RECOVERY
224	2-fluorophenol	91 %
378	d5-phenol	91 %
503	d5-nitrobenzene	86 %
777	2-fluorobiphenyl	73 %
991	2,4,6-tribromophenol	86 %
1343	d14-terphenyl	130 %

NOTES AND DEFINITIONS FOR THIS REPORT.
DET LIMIT = detection limit.
ND = not detected at specified detection limit.
NA = not analyzed.
N\A = not available.
B = detected in Reagent Blank; background subtraction not performed.
J = estimated value less than detection limit.

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE