



64738

Water Wells on St. Thomas, U.S. Virgin Islands

By Judy I. Steiger and Richard Kessler

U.S. GEOLOGICAL SURVEY

Open-File Data Report 91-504

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U.S. VIRGIN ISLANDS WATER AND POWER AUTHORITY

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[78 pages total]

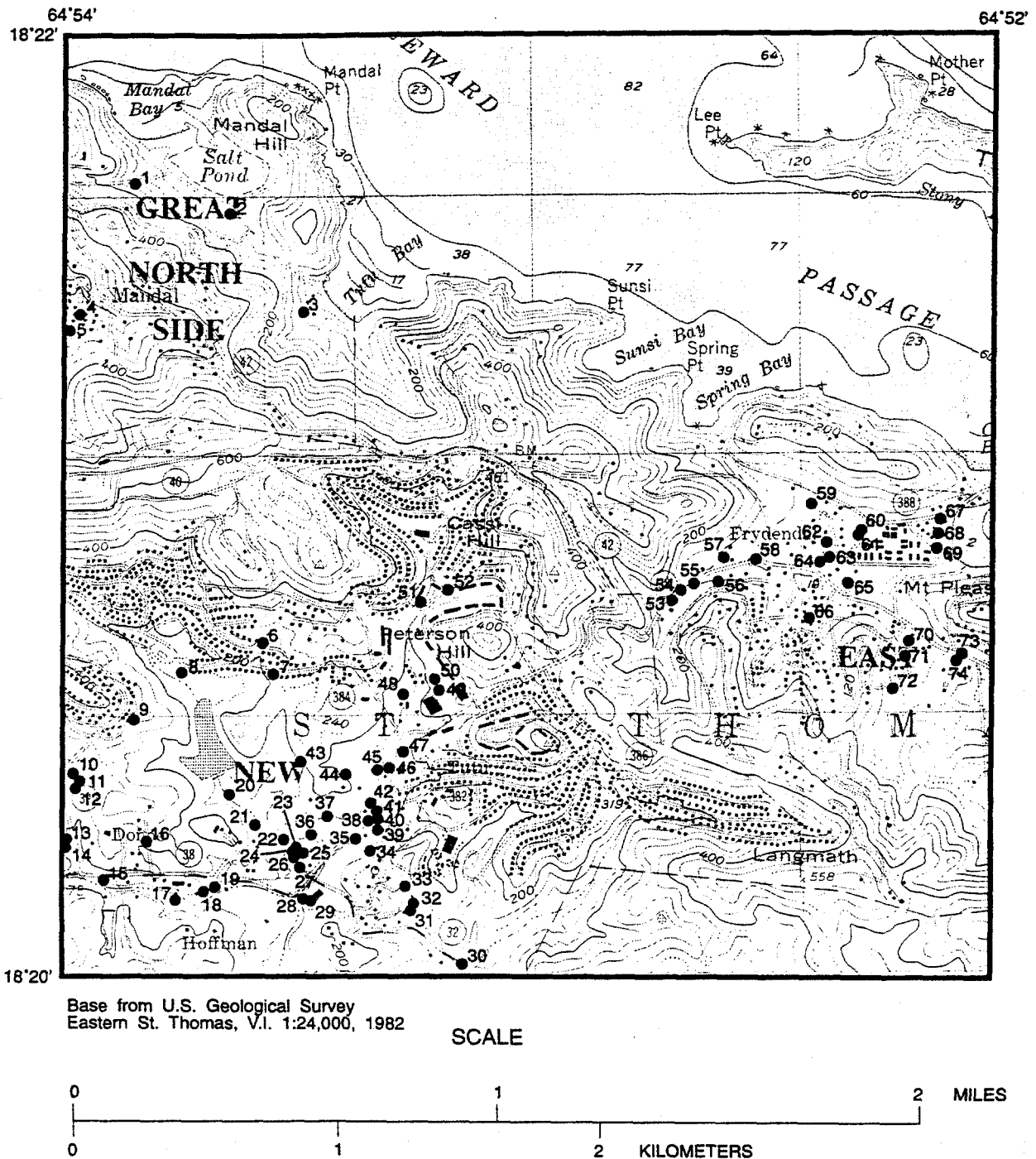


Figure 12. Location of wells on grid 10 of figure 1. The well numbers shown on this figure correspond to the well numbers which begin with 10- in table 8 and appendixes A and B.

Table 8. Description of wells located on figure 12--Continued
[C, commercial well; D, domestic well; NU, well not in use; --, indicates data not available]

Well number on figure 12	Well name	Use of water	Year constructed	Reported depth of well (feet)	Measured depth of well (feet)	Casing diameter (inches)	Type of well finish and finish interval (feet)	Land surface altitude of well (feet)	Depth to water below land surface datum (feet)	Date water level measured (month-day-year)	Yield (gallons per minute)
10-18	A. Sharp	D	--	200	--	6	open hole 20-200	150	6	02-20-90	reported yield 15
10-17	Pedersen	NU	--	--	9	--	--	150	2	06-11-90	--
10-18	A. Sharp	D	--	200	--	6	open hole 20-200	150	6	02-20-90	reported yield 15
10-19	E. Eglin	D	--	--	13	72	--	150	7	02-20-90	reported yield 4
10-20	Harthman dug well	NU	--	--	15	--	--	150	1	02-21-90	--
10-21	Harthman domestic well	D	1978	325	--	6	--	150	pumping water level 18	02-21-90	--
10-22	VITELCO	NU	--	--	131	6	--	137	17	05-08-90	--
10-23	Gassett Motors 1	--	--	--	--	--	--	135	--	--	--
10-24	Gassett Motors 2	NU	--	--	128	6	--	135	22	05-08-90	--
10-25	Rodríguez Auto 2	--	--	120	--	6	--	126	--	--	--
10-26	Rodríguez Auto 3	C	--	80	--	6	--	126	11	02-07-90	--
10-27	Rodríguez Auto 4	NU	1978	220	--	6	--	125	--	--	reported yield 15
10-28	Fort Mylner	NU	1938	18	--	133	--	120	--	--	--
10-29	Versailles Assoc.	NU	1965	40	--	6	--	120	--	--	--
10-30	Delagarde	D	1965	70	--	6	--	70	--	--	--
10-31	Matthias	D	1966	50	--	6	--	90	--	--	reported yield 30
10-32	L. Smith	D	--	--	--	6	--	90	--	--	--
10-33	C. Hodge	D	1967	80	--	6	open hole 20-80	111	26	03-01-90	--

Table 8. Description of wells located on figure 12--Continued
 [C, commercial well; D, domestic well; NU, well not in use; --, indicates data not available]

Well number on figure 12	Well name	Use of water	Year constructed	Reported depth of well (feet)	Measured depth of well (feet)	Casing diameter (inches)	Type of well finish and finish interval (feet)	Land surface altitude of well (feet)	Depth to water below land surface datum (feet)	Date water level measured (month-day-year)	Yield (gallons per minute)
10-34	E. Steel	D	1965	150	--	6	--	175	63	02-13-90	reported yield 8
10-35	O. Harvey	NU	1978	160	--	5	--	138	24	02-13-90	--
10-36	Harthman near Gassett Motors	NU	1978	325	80	6	open hole 36-325	130	21	08-16-90	reported yield 25
10-37	Crusher well	NU	1978	--	--	6	--	140	26	01-13-90	--
10-38	G. Eglin 1	C	1965	--	--	6	--	144	--	--	reported yield 60
10-39	G. Eglin 3	C	--	325	--	6	open hole 40-325	152	18	02-09-90	reported yield 60
10-40	G. Eglin 2	C	--	--	--	6	--	149	14	02-09-90	reported yield 60
10-41	Tom Cat Laundry	NU	--	--	--	--	--	160	--	--	--
10-42	VI Government/near Church of God Holiness	NU	--	--	27	108	--	145	13	03-01-90	--
10-43	Harthman estate well USGS-25	--	1965	210	--	6	slotted 100-200	196	35	12-24-90	reported yield 30
10-44	Church of God Holiness	NU	1981	265	--	6	--	200	--	--	reported yield 35
10-45	Four Winds Plaza 2	NU	1981	285	--	6	--	165	8	02-07-90	reported yield 5-10
10-46	Four Winds Plaza 1	NU	1981	305	--	6	open hole 30-305	166	12	02-07-90	reported yield 12
10-47	E. Tillet	NU	1963	100	--	6	open hole 15-100	186	22	02-23-90	reported yield 60

Table 8. Description of wells located on figure 12--Continued
[C, commercial well; D, domestic well; PS, public-supply well; NU, well not in use; --, indicates data not available]

Well number on figure 12	Well name	Use of water	Year constructed	Reported depth of well (feet)	Measured depth of well (feet)	Casing diameter (inches)	Type of well finish and finish interval (feet)	Land surface altitude of well (feet)	Depth to water below land surface datum (feet)	Date water level measured (month-day-year)	Yield (gallons per minute)
10-48	Ramsey Motors	C	1978	105	--	6	open hole 65-105	180	9	02-23-90	reported yield 60
10-49	Virgin Islands Housing Authority 1	PS	1978	175	--	6	open hole 41-175	231	58	02-12-90	reported yield 48
10-50	Virgin Islands Housing Authority 2	NU	1977	150	--	6	open hole 37-150	235	61	02-12-90	reported yield 47
10-51	Virgin Islands Housing Authority 3	PS	1978	142	--	6	open hole 73-142	239	--	--	reported yield 44
10-52	Virgin Islands Housing Authority 4	NU	1978	140	176	6	open hole 69-140	278	41	02-13-90	reported yield 46
10-53	C. F. Rosenberg - USGS-2	C,D	1963	120	--	6	open hole 21-120	95	20	03-01-90	reported yield 5
10-54	Super Pool Restaurant	C	1988	110	--	6	open hole 60-110	90	pumping water level 32	02-22-90	--
10-55	Smith Bay Center	C	1987	150	--	6	--	85	--	--	--
10-56	A. Levia	D	1966	110	--	6	--	80	42	03-01-90	--
10-57	U. Pilgrim	D	1967	80	--	6	slotted 40-80	70	39	02-22-90	reported yield 45
10-58	Fat Man's/C. Husband	D,C	1985	80	--	6	slotted 35-75	40	27	02-22-90	reported yield 10
10-59	R. Mercer	NU	--	--	54	6	--	40	30	04-12-90	--
10-60	Stouffer Grand Beach Hotel A	C	--	--	--	6	--	15	--	--	measured yield 36
10-61	Stouffer Grand Beach Hotel B	C	1985	100	--	6	screened 70-90	15	--	--	reported yield 35-40

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Table 8. Description of wells located on figure 12--Continued
 [C, commercial well; D, domestic well; NU, well not in use; --, indicates data not available]

Well number on figure 12	Well name	Use of water	Year constructed	Reported depth of well (feet)	Measured depth of well (feet)	Casing diameter (inches)	Type of well finish and finish interval (feet)	Land surface altitude of well (feet)	Depth to water below land surface datum (feet)	Date water level measured (month-day-year)	Yield (gallons per minute)
10-62	Leonard	NU	--	--	35	6	slotted 20-35	20	9	03-01-90	--
10-63	A. Leonard 2	D	1988	140	--	6	open hole 100-140	20	11	02-22-90	--
10-64	A. Leonard 1	NU	1964	30	25	4	slotted 10-30	20	10	02-22-90	--
10-65	S & S Service	C	--	--	--	8	--	20	--	--	--
10-66	E. Francis	NU	--	70	--	6	--	30	34	10-10-90	--
10-67	Stouffer Grand Beach Hotel C	C	1985	--	--	6	--	4	--	--	reported yield 60
10-68	Stouffer Grand Beach Hotel D	NU	1985	--	--	6	--	4	--	--	--
10-69	Stouffer Grand Beach Hotel E	C	1985	--	--	6	--	4	--	--	reported yield 40
10-70	Martin	D	1972	59	--	6	--	20	24	05-25-90	--
10-71	Lindquist/VI Government	NU	--	--	29	120	--	25	19	04-13-90	--
10-72	Sprauve	C	1977	73	--	6	--	40	51	06-18-90	--
10-73	Point Pleasant Resort 1	C	--	--	--	6	--	20	41	04-13-90	measured yield 8
10-74	Johnson	D	1977	100	--	6	--	20	pumping water level 41	06-01-90	--

Appendix A. Well names, Estates, and site-identification numbers of wells on St. Thomas, U.S. Virgin Islands--Continued

Well number	Figure number	Well name	Estate (see figure 2)	Site identification number
9-84	11	St. Thomas Hospital 3	Thomas	182031064545500
9-85	11	St. Thomas Hospital 2	Thomas	182033064545500
9-86	11	St. Thomas Hospital 1	Thomas	182036064545600
9-87	11	Lockhart Estate Thomas north well	Thomas	182037064544600
9-88	11	Daily News	Thomas	182035064544800
9-89	11	Virgin Islands Medical Association	Thomas	182033064544800
9-90	11	Lockhart Estate Thomas south well	Thomas	182032064544600
9-91	11	Lockhart/ Melchoir	Thomas	182030064544800
9-92	11	T. Frett	Thomas	182014064544100
9-93	11	L. Barbel	Raphune	182009064543300
9-94	11	Villa Blanca Hotel	Thomas	182021064543400
9-95	11	Lockhart dug well	Raphune	182017064542300
9-96	11	New Hernhut Mission	New Hernhut	182002064540700
9-97	11	Lockhart 5	Donoe	182015064540000
9-98	11	Lockhart 4	Donoe	182016064540000
9-99	11	Lockhart 3	Donoe	182016064535900
10- 1	12	Mandahl Beach	Mandahl	182141064535000
10- 2	12	VI Government/ Mandahl Beach	Mandahl	182137064533800
10- 3	12	V. Wallace	Mandahl	182124064532900
10- 4	12	Peace Corps School	Mandahl	182125064535700
10- 5	12	Mandahl Homestead well	Mandahl	182122064535900
10- 6	12	Demitry	Anna's Retreat	182042064533400
10- 7	12	Alpha Leonard	Anna's Retreat	182038064533300
10- 8	12	VI Government/ near treatment plant	Anna's Retreat	182039064534400
10- 9	12	VI Government/ Donoe 3	Donoe	182029064535200
10-10	12	M. Bryan 2	Donoe	182026064535800
10-11	12	M. Bryan 3	Donoe	182025064535800
10-12	12	M. Bryan 1	Donoe	182024064535800
10-13	12	Lockhart 1	Donoe	182018064535900
10-14	12	Lockhart 2	Donoe	182017064535900
10-15	12	I. Kirkterterp	Hoffman	182012064535400
10-16	12	J. Baugh	Charlotte Amalie	182017064534900
10-17	12	Pedersen	Hoffman	182009064534500
10-18	12	A. Sharp	Charlotte Amalie	182010064534200
10-19	12	E. Eglin	Charlotte Amalie	182011064534000

Appendix A. Well names, Estates, and site-identification numbers of wells on St. Thomas, U.S. Virgin Islands--Continued

Well number	Figure number	Well name	Estate (see figure 2)	Site identification number
10-20	12	Harthman dug well	Charlotte Amalie	182023064533800
10-21	12	Harthman domestic well	Charlotte Amalie	182019064533500
10-22	12	VITELCO	Charlotte Amalie	182018064533200
10-23	12	Gassett Motors 1	Charlotte Amalie	182017064533000
10-24	12	Gassett Motors 2	Charlotte Amalie	182018064533100
10-25	12	Rodriguez Auto 2	Charlotte Amalie	182016064532900
10-26	12	Rodriguez Auto 3	Charlotte Amalie	182015064533000
10-27	12	Rodriguez Auto 4	Charlotte Amalie	182014064532900
10-28	12	Fort Mylner	Charlotte Amalie	182010064532900
10-29	12	Versailles Assoc.	Charlotte Amalie	182009064532800
10-30	12	Delagarde	Charlotte Amalie	182001064530800
10-31	12	Matthias	Charlotte Amalie	182008064531400
10-32	12	L. Smith	Charlotte Amalie	182009064531300
10-33	12	C. Hodge	Anna's Retreat	182012064531400
10-34	12	E. Steel	Anna's Retreat	182016064532000
10-35	12	O. Harvey	Anna's Retreat	182017064532200
10-36	12	Harthman near Gassett Motors	Charlotte Amalie	182018064532800
10-37	12	Crusher Well	Charlotte Amalie	182021064532500
10-38	12	G. Eglin 1	Anna's Retreat	182020064532000
10-39	12	G. Eglin 3	Anna's Retreat	182019064531900
10-40	12	G. Eglin 2	Anna's Retreat	182020064531900
10-41	12	Tom Cat laundry	Anna's Retreat	182021064531900
10-42	12	VI Government/ near Church of God Holiness	Anna's Retreat	182021064532000
10-43	12	Harthman Estate well USGS-25	Charlotte Amalie	182027064532900
10-44	12	Church of God Holiness	Anna's Retreat	182025064532300
10-45	12	Four Winds Plaza 2	Anna's Retreat	182027064531900

Appendix A. Well names, Estates, and site-identification numbers of wells on St. Thomas, U.S. Virgin Islands--Continued

Well number	Figure number	Well name	Estate (see figure 2)	Site identification number
10-46	12	Four Winds Plaza 1	Anna's Retreat	182027064531800
10-47	12	E. Tillet	Anna's Retreat	182029064531500
10-48	12	Ramsey Motors	Anna's Retreat	182036064531600
10-49	12	Virgin Islands Housing Authority 1	Anna's Retreat	182037064531100
10-50	12	Virgin Islands Housing Authority 2	Anna's Retreat	182038064531200
10-51	12	Virgin Islands Housing Authority 3	Anna's Retreat	182048064531400
10-52	12	Virgin Islands Housing Authority 4	Anna's Retreat	182049064530900
10-53	12	C. F. Rosenberg USGS-2	Frydendahl	182048064524000
10-54	12	Super Pool Resturant	Frydendahl	182049064524000
10-55	12	Smith Bay Center	Frydendahl	182050064523800
10-56	12	A. Levia	Frydendahl	182051064523500
10-57	12	U. Pilgrim	Frydendahl	182054064523400
10-58	12	Fat Man's / C. Husband	Frydendahl	182053064522900
10-59	12	R. Mercer	Frydendahl	182100064522300
10-60	12	Stouffer Grand Beach Hotel A	Frydendahl	182057064521600
10-61	12	Stouffer Grand Beach Hotel B	Fryndenahl	182056064521700
10-62	12	Leonard	Frydendahl	182055064522100
10-63	12	A. Leonard 2	Frydendahl	182054064522000
10-64	12	A. Leonard 1	Frydendahl	182053064522100
10-65	12	S & S Service	Smith Bay	182050064521800
10-66	12	E. Francis	Smith Bay	182046064522300
10-67	12	Stouffer Grand Beach Hotel C	Frydendahl	182058064520600
10-68	12	Stouffer Grand Beach Hotel D	Frydendahl	182057064520600
10-69	12	Stouffer Grand Beach Hotel E	Frydendahl	182055064520600
10-70	12	Martin	Smith Bay	182043064521000
10-71	12	Lindquist/VI Government	Smith Bay	182041064521100
10-72	12	Sprauve	Smith Bay	182037064521200
10-73	12	Point Pleasant Resort 1	Smith Bay	182041064520300
10-74	12	Johnson	Smith Bay	182040064520400
11- 1	13	Point Pleasant Resort 2	Smith Bay	182040064520000
11- 2	13	S. Harthman Heirs	Smith Bay	182026064513400

Appendix B. Lithologic descriptions and remarks for wells on St. Thomas, U.S. Virgin Islands--Continued
 [--, indicates data not available]

Well number	Figure number	Lithologic description and depth interval (feet)	Remarks
9-94	11	Unconsolidated material 0-2 Bedrock 2	Owner estimated daily pumpage is 1,500 gallons.
9-95	11	--	Well was dug before 1900 and is oval with 20-foot diameter at widest point. Water-level data for 1962-64 available under "well 16" in Robison and others, 1973.
9-96	11	--	Well was dug during the 1700's.
9-97	11	Unconsolidated material 0-45 Bedrock 45	--
9-98	11	Unconsolidated material 0-35 Bedrock 35	--
9-99	11	Unconsolidated material 0-40 Bedrock 40	--
10- 1	12	--	--
10- 2	12	--	--
10- 3	12	Unconsolidated material 0-45	--
10- 4	12	--	--
10- 5	12	--	--
10- 6	12	--	--
10- 7	12	--	--
10- 8	12	--	--
10- 9	12	--	U.S. Geological Survey observation well.
10-10	12	Unconsolidated material 0-30 Bedrock 30	Owner estimated daily pumpage is 25,000 gallons.
10-11	12	Unconsolidated material 0-20 Bedrock 20	--
10-12	12	Unconsolidated material 0-28 Bedrock 289	Well reported dry. Owner estimated daily pumpage is 25,000 gallons.
10-13	12	Unconsolidated material 0-40 Bedrock 40	--
10-14	12	Unconsolidated material 0-30 Bedrock 30	--
10-15	12	--	Property manager reported well could yield 38,000 gallons per day.
10-16	12	--	Yield was reported bailed.
10-17	12	--	Inside diameter 85-95 inches.

Appendix B. Lithologic descriptions and remarks for wells on St. Thomas, U.S. Virgin Islands--Continued

[--, indicates data not available]

Well number	Figure number	Lithologic description and depth interval (feet)	Remarks
10-18	12	Unconsolidated material 0-10 Bedrock 10	Well drilled in the 1960's. Reported yield is bailed.
10-19	12	--	Well dug around 1938.
10-20	12	--	60-72 inch diameter well dug before 1943. Water-level data for 1967-69 available under "Well 18" in Robison and others, 1973.
10-21	12	--	--
10-22	12	--	--
10-23	12	--	--
10-24	12	--	--
10-25	12	--	Well drilled in 1972 or 1973.
10-26	12	--	Well drilled in 1972 or 1973.
10-27	12	Unconsolidated material 0-20 Bedrock 20	--
10-28	12	--	Well covered over. Water-level data for 1958-69 available under "Well 26" in Robison and other, 1973.
10-29	12	--	--
10-30	12	--	--
10-31	12	--	--
10-32	12	--	Well drilled in the 1960's.
10-33	12	--	--
10-34	12	--	Well caved in to 105 feet.
10-35	12	--	--
10-36	12	Unconsolidated material 0-30 Bedrock 30	--
10-37	12	--	Owner reported depth 125 feet, previous inventory reported depth of 210 feet.
10-38	12	--	Well reported to be redrilled to 225 feet in 1979. Water-level data for 1967-69 available under "Well 24" in Robison and others, 1973.
10-39	12	--	--
10-40	12	--	Owner reported depth to be 385 feet. Previous inventory reported depth of 225 feet with casing to 40 feet.
10-41	12	--	--

Appendix B. Lithologic descriptions and remarks for wells on St. Thomas, U.S. Virgin Islands--Continued

[--, indicates data not available]

Well number	Figure number	Lithologic description and depth interval (feet)	Remarks
10-42	12	--	Well dug before 1942. Water-level data for 1962-63 available under "Well 23" in Robison and others, 1973.
10-43	12	--	Water is being used at temporary archeologic site. Water-level data for 1965-69 available under "Well 19" in Robison and others, 1973.
10-44	12	--	Well is covered over.
10-45	12	Unconsolidated material 0-30 Bedrock 30	--
10-46	12	Unconsolidated material 0-24 Bedrock 24	--
10-47	12	--	--
10-48	12	Unconsolidated material 0-10 Bedrock 10	--
10-49	12	Unconsolidated material 0-32 Bedrock 32	Well is owned by the U.S. Virgin Islands Housing Authority.
10-50	12	Unconsolidated material 0-32 Bedrock 32	--
10-51	12	--	Well is owned by the U.S. Virgin Islands Housing Authority.
10-52	12	--	--
10-53	12	Unconsolidated material 0-12 Bedrock 12	Water-level data for 1963-69 available under "Well 9" in Robison and others, 1973.
10-54	12	Unconsolidated material 0-18 Bedrock 18	--
10-55	12	--	--
10-56	12	--	--
10-57	12	--	--
10-58	12	Unconsolidated material 0-65 Bedrock 65	Well screen diameter is 5 inches.
10-59	12	--	--
10-60	12	Unconsolidated material 0-28 Bedrock 28	--
10-61	12	Unconsolidated material 0-30 Bedrock 30	--
10-62	12	--	Well drilled in the early 1970's.
10-63	12	Unconsolidated material 0-80 Bedrock 80	--

Appendix B. Lithologic descriptions and remarks for wells on St. Thomas, U.S. Virgin Islands--Continued
 [--, indicates data not available]

Well number	Figure number	Lithologic description and depth interval (feet)	Remarks
10-64	12	--	--
10-65	12	--	--
10-66	12	--	Well drilled in 1963 or 1964.
10-67	12	--	--
10-68	12	--	--
10-69	12	--	--
10-70	12	--	--
10-71	12	--	--
10-72	12	--	--
10-73	12	--	--
10-74	12	--	--
11- 1	13	Unconsolidated material 0-3 Bedrock 3	8-inch casing at surface.
11- 2	13	--	--
11- 3	13	--	Well is square 96 by 96 inches. Water-level data for 1962-64 available under "Well 11" in Robison and others, 1973.
11- 4	13	Unconsolidated material 0-40 Bedrock 40	--
11- 5	13	--	--
11- 6	13	--	--
11- 7	13	--	Water-level data for 1965-69 available under "Well 12" in Robison and others, 1973.
14- 1	16	--	Well reported caved in to 508 feet.
14- 2	16	Unconsolidated material 0-28 Bedrock 28	--
14- 3	16	Unconsolidated material 0-54 Bedrock 54	--
14- 4	16	Unconsolidated material 0-10 Bedrock 10	Well was reported abandoned and filled with concrete.
14- 5	16	Unconsolidated material 0-60 Bedrock 60	4-inch slotted casing inside of 6-inch casing.
14- 6	16	--	Water-level data for 1962-69 available under "Well 34" in Robison and others, 1973.
14- 7	16	--	--
14- 8	16	--	--

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (305) 421-7400 • Fax (305) 421-2584

LOG NO: D4-90016

Received: 04 JAN 94

Mr. Bruce Green
Caribbean Hydro-Tech, Inc.
P.O. Box 2070 - Kingshill
St. Croix, USVI 00851-2070

Purchase Order: #93001

Project: Four Winds - St. Thomas
Sampled By: B. Green

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
90016-1	Storm Sewer Trench	12-30-93
PARAMETER	90016-1	
Purgeables (601/602)		
Bromodichloromethane, ug/l		<1.0
Bromoform, ug/l		<5.0
Bromomethane, ug/l		<1.0
Carbon tetrachloride, ug/l		<1.0
Chlorobenzene, ug/l		<1.0
Chloroethane, ug/l		<1.0
2-Chloroethylvinyl Ether, ug/l		<10J
Chloroform, ug/l		<1.0
Chloromethane, ug/l		<1.0
Dibromochloromethane, ug/l		<1.0
1,2-Dichlorobenzene, ug/l		<1.0
1,3-Dichlorobenzene, ug/l		<1.0
1,4-Dichlorobenzene, ug/l		<1.0
Dichlorodifluoromethane, ug/l		<1.0
1,1-Dichloroethane, ug/l		<1.0
1,2-Dichloroethane, ug/l		<1.0
1,1-Dichloroethene, ug/l		<1.0
trans-1,2-Dichloroethylene, ug/l		<1.0
1,2-Dichloropropane, ug/l		<1.0
cis-1,3-Dichloropropene, ug/l		<1.0
trans-1,3-Dichloropropene, ug/l		<1.0
Methylene chloride, ug/l		<1.0
1,1,2,2-Tetrachloroethane, ug/l		<1.0
Tetrachloroethene, ug/l		7.5
1,1,1-Trichloroethane, ug/l		<1.0

TJLT 006 1240

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

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LOG NO: D4-90016

Received: 04 JAN 94

Mr. Bruce Green
Caribbean Hydro-Tech, Inc.
P.O. Box 2070 - Kingshill
St. Croix, USVI 00851-2070

Purchase Order: #93001

Project: Four Winds - St. Thomas
Sampled By: B. Green

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
90016-1	Storm Sewer Trench	12-30-93
PARAMETER	90016-1	
1,1,2-Trichloroethane, ug/l	<1.0	
Trichloroethene, ug/l	3.3	
Trichlorofluoromethane, ug/l	<1.0	
Vinyl chloride, ug/l	<1.0	
Benzene, ug/l	<1.0	
Ethylbenzene, ug/l	<1.0	
Toluene, ug/l	<1.0	
Xylenes, ug/l	<1.0	
Methyl-tert-butyl ether (MTBE), ug/l	<10	
Date Analyzed	01.11.94	
Method Number	601/602	
Dilution factor, ug/l	1	

TUT 006 1241

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LOG NO: D4-90016

Received: 04 JAN 94

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St. Croix, USVI 00851-2070

Purchase Order: #93001

Project: Four Winds - St. Thomas
Sampled By: B. Green

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
90016-1	Storm Sewer Trench	12-30-93
PARAMETER	90016-1	
Polynuclear Aromatic Hydrocarbons (610)		
Acenaphthene, ug/l		<10
Acenaphthylene, ug/l		<10
Benzo(a)pyrene, ug/l		<10
Benzo(g,h,i)perylene, ug/l		<10
Benzo(b,k)fluoranthene, ug/l		<10
Chrysene + Benzo(a)anthracene, ug/l		<10
Fluoranthene, ug/l		<10
Fluorene, ug/l		<10
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/l		<10
Naphthalene, ug/l		<10
Phenanthrene + Anthracene, ug/l		<10
Pyrene, ug/l		<10
2-Methylnaphthalene, ug/l		<10
1-Methylnaphthalene, ug/l		<10
Date Extracted	01.05.94	
Date Analyzed	01.07.94	
Method Number	EPA 610	
Dilution factor, ug/l	1	
Oil & Grease		
Oil & Grease , mg/l	7.1	
Date Extracted	01.06.94	
Date Analyzed	01.07.94	
Method Number	EPA 413.2	

TUT 006 1242

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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
90016-1	Storm Sewer Trench	12-30-93
PARAMETER	90016-1	
Petroleum Hydrocarbons		
Petroleum Hydrocarbons, mg/l	4.4	
Date Extracted	01.06.94	
Date Analyzed	01.07.94	
Method Number	EPA 418.1	

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Purchase Order: #93001

Project: Four Winds - St. Thomas
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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
90016-2	Storm Sewer Trench	12-30-93
PARAMETER	90016-2	
Volatiles (8010/8020)		
Benzyl chloride, ug/kg dw		<5.0
Bromobenzene, ug/kg dw		<5.0
Bromodichloromethane, ug/kg dw		<5.0
Bromoform, ug/kg dw		<25
Bromomethane, ug/kg dw		<5.0
Carbon tetrachloride, ug/kg dw		<5.0
Chlorobenzene, ug/kg dw		<5.0
Chloroethane, ug/kg dw		<5.0
Chloroform, ug/kg dw		<5.0
1-Chlorohexane, ug/kg dw		<5.0
2-Chloroethylvinyl Ether, ug/kg dw		<50J
Chloromethane, ug/kg dw		<5.0
Chlorotoluene, ug/kg dw		<5.0
Dibromochloromethane, ug/kg dw		<5.0
Dibromomethane, ug/kg dw		<5.0
1,2-Dichlorobenzene, ug/kg dw		<5.0
1,3-Dichlorobenzene, ug/kg dw		<5.0
1,4-Dichlorobenzene, ug/kg dw		<5.0
Dichlorodifluoromethane, ug/kg dw		<5.0
1,1-Dichloroethane, ug/kg dw		<5.0
1,2-Dichloroethane, ug/kg dw		<5.0
1,1-Dichloroethene, ug/kg dw		<5.0
trans-1,2-Dichloroethylene, ug/kg dw		<5.0
Methylene chloride, ug/kg dw		<5.0
1,2-Dichloropropane, ug/kg dw		<5.0

TUT 006 1244

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Purchase Order: #93001

Project: Four Winds - St. Thomas
Sampled By: B. Green

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
90016-2	Storm Sewer Trench	12-30-93
PARAMETER	90016-2	
1,3-Dichloropropylene, ug/kg dw	<5.0	
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.0	
Tetrachloroethene, ug/kg dw	<5.0	
1,1,1-Trichloroethane, ug/kg dw	<5.0	
1,1,2-Trichloroethane, ug/kg dw	<5.0	
Trichloroethene, ug/kg dw	<5.0	
Trichlorofluoromethane, ug/kg dw	<5.0	
1,2,3-Trichloropropane, ug/kg dw	<5.0	
Vinyl chloride, ug/kg dw	<5.0	
Benzene, ug/kg dw	<5.0	
Ethylbenzene, ug/kg dw	<5.0	
Toluene, ug/kg dw	<5.0	
Xylenes, ug/kg dw	<5.0	
Methyl-tert-butyl ether (MTBE), ug/kg dw	<50	
Date Analyzed	01.12.94	
Method Number	8010/8020	
Dilution factor, ug/kg dw	1	

TUT 006 1245

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Purchase Order: #93001

Project: Four Winds - St. Thomas
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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
90016-2	Storm Sewer Trench	12-30-93
PARAMETER	90016-2	
Polynuclear Aromatic Hydrocarbons (8100)		
Acenaphthene, ug/kg dw	<330	
Acenaphthylene, ug/kg dw	<330	
Benzo(a)pyrene, ug/kg dw	<330	
Benzo(g,h,i)perylene, ug/kg dw	<330	
Benzo(b,k)fluoranthene, ug/kg dw	<330	
Chrysene + Benzo(a)anthracene, ug/kg dw	<330	
Fluoranthene, ug/kg dw	<330	
Fluorene, ug/kg dw	<330	
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/kg dw	<330	
Naphthalene, ug/kg dw	<330	
Phenanthrene + Anthracene, ug/kg dw	<330	
Pyrene, ug/kg dw	<330	
2-Methylnaphthalene, ug/kg dw	<330	
1-Methylnaphthalene, ug/kg dw	<330	
Date Extracted	01.06.94	
Date Analyzed	01.10.94	
Method Number	EPA 8100	
Dilution factor, ug/kg dw	1	
Oil & Grease		
Oil & Grease , mg/kg dw	120	
Date Extracted	01.10.94	
Date Analyzed	01.10.94	
Method Number	EPA 9071	

TUT 006 1246

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Purchase Order: #93001

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REPORT OF RESULTS

Page 8

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
90016-2	Storm Sewer Trench	12-30-93
PARAMETER	90016-2	
Petroleum Hydrocarbons		
Petroleum Hydrocarbons, mg/kg dw	74	
Date Extracted	01.10.94	
Date Analyzed	01.10.94	
Method Number	EPA 9073	
Percent Solids, %	78	

TUT 006 1247

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REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED	
23812-1	W-5 Storm Sewer 4 Winds	11-30-93	
23812-2	W-4 Storm Sewer 4 Winds	11-30-93	
PARAMETER		23812-1	23812-2
Purgeables (601/602)			
Bromodichloromethane, ug/l		<1.0	<1.0
Bromoform, ug/l		<5.0	<5.0
Bromomethane, ug/l		<1.0	<1.0
Carbon tetrachloride, ug/l		<1.0	<1.0
Chlorobenzene, ug/l		<1.0	<1.0
Chloroethane, ug/l		<1.0	<1.0
2-Chloroethylvinyl Ether, ug/l		<10J	<10J
Chloroform, ug/l		<1.0	2.4
Chloromethane, ug/l		8.1	<1.0
Dibromochloromethane, ug/l		<1.0	<1.0
1,2-Dichlorobenzene, ug/l		<1.0	<1.0
1,3-Dichlorobenzene, ug/l		<1.0	<1.0
1,4-Dichlorobenzene, ug/l		<1.0	<1.0
Dichlorodifluoromethane, ug/l		<1.0	<1.0
1,1-Dichloroethane, ug/l		<1.0	<1.0
1,2-Dichloroethane, ug/l		<1.0	<1.0
1,1-Dichloroethene, ug/l		<1.0	<1.0
trans-1,2-Dichloroethylene, ug/l		<1.0	<1.0
1,2-Dichloropropane, ug/l		<1.0	<1.0
cis-1,3-Dichloropropene, ug/l		<1.0	<1.0
trans-1,3-Dichloropropene, ug/l		<1.0	<1.0
Methylene chloride, ug/l		<1.0	<1.0
1,1,2,2-Tetrachloroethane, ug/l		<1.0	<1.0
Tetrachloroethene, ug/l		15	19

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REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED	
23812-1	W-5 Storm Sewer 4 Winds	11-30-93	
23812-2	W-4 Storm Sewer 4 Winds	11-30-93	
PARAMETER	23812-1	23812-2	
1,1,1-Trichloroethane, ug/l	<1.0	<1.0	
1,1,2-Trichloroethane, ug/l	<1.0	<1.0	
Trichloroethene, ug/l	3.8	5.0	
Trichlorofluoromethane, ug/l	<1.0	<1.0	
Vinyl chloride, ug/l	<1.0	<1.0	
Benzene, ug/l	<1.0	<1.0	
Ethylbenzene, ug/l	<1.0	<1.0	
Toluene, ug/l	<1.0	<1.0	
Xylenes, ug/l	<1.0	<1.0	
Methyl-tert-butyl ether (MTBE), ug/l	60	92	
Date Analyzed	12.13.93	12.13.93	
Method Number	601/602	601/602	
Dilution factor	1	1	
Petroleum Hydrocarbons			
Petroleum Hydrocarbons, mg/l	<1.0	<1.0	
Date Extracted	12.10.93	12.10.93	
Date Analyzed	12.10.93	12.10.93	
Method Number	EPA 418.1	EPA 418.1	

TUT 006 1249

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REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
23812-3	W-5 Storm Sewer 4 Winds	11-30-93
PARAMETER	23812-3	
Volatiles (8010/8020)		
Benzyl chloride, ug/kg dw		<5.0
Bromobenzene, ug/kg dw		<5.0
Bromodichloromethane, ug/kg dw		<5.0
Bromoform, ug/kg dw		<25
Bromomethane, ug/kg dw		<5.0
Carbon tetrachloride, ug/kg dw		<5.0
Chlorobenzene, ug/kg dw		<5.0
Chloroethane, ug/kg dw		<5.0
Chloroform, ug/kg dw		<5.0
1-Chlorohexane, ug/kg dw		<5.0
2-Chloroethylvinyl Ether, ug/kg dw		<50J
Chloromethane, ug/kg dw		<5.0
Chlorotoluene, ug/kg dw		<5.0
Dibromochloromethane, ug/kg dw		<5.0
Dibromomethane, ug/kg dw		<5.0
1,2-Dichlorobenzene, ug/kg dw		<5.0
1,3-Dichlorobenzene, ug/kg dw		<5.0
1,4-Dichlorobenzene, ug/kg dw		<5.0
Dichlorodifluoromethane, ug/kg dw		<5.0
1,1-Dichloroethane, ug/kg dw		<5.0
1,2-Dichloroethane, ug/kg dw		<5.0
1,1-Dichloropethene, ug/kg dw		<5.0
trans-1,2-Dichloroethylene, ug/kg dw		<5.0
Methylene chloride, ug/kg dw		<5.0
1,2-Dichloropropane, ug/kg dw		<5.0

TUT 006 1250

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REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
23812-3	W-5 Storm Sewer 4 Winds	11-30-93
PARAMETER	23812-3	
1,3-Dichloropropylene, ug/kg dw	<5.0	
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.0	
Tetrachloroethene, ug/kg dw	6.5	
1,1,1-Trichloroethane, ug/kg dw	<5.0	
1,1,2-Trichloroethane, ug/kg dw	<5.0	
Trichloroethene, ug/kg dw	<5.0	
Trichlorofluoromethane, ug/kg dw	<5.0	
1,2,3-Trichloropropane, ug/kg dw	<5.0	
Vinyl chloride, ug/kg dw	<5.0	
Benzene, ug/kg dw	<5.0	
Ethylbenzene, ug/kg dw	<5.0	
Toluene, ug/kg dw	<5.0	
Xylenes, ug/kg dw	<5.0	
Methyl-tert-butyl ether (MTBE), ug/kg dw	<50	
Date Analyzed	12.16.93	
Method Number	8010/8020	
Dilution factor	1	

TUT 006 1251

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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
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23812-3	W-5 Storm Sewer 4 Winds	11-30-93
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PARAMETER	23812-3
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Polynuclear Aromatic Hydrocarbons (8100)

Acenaphthene, ug/kg dw	<330
Acenaphthylene, ug/kg dw	<330
Benzo(a)pyrene, ug/kg dw	370
Benzo(g,h,i)perylene, ug/kg dw	<330
Benzo(b,k)fluoranthene, ug/kg dw	<330
Chrysene + Benzo(a)anthracene, ug/kg dw	<330
Fluoranthene, ug/kg dw	910
Fluorene, ug/kg dw	<330
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/kg dw	<330
Naphthalene, ug/kg dw	<330
Phenanthrene + Anthracene, ug/kg dw	<330
Pyrene, ug/kg dw	<330
2-Methylnaphthalene, ug/kg dw	<330
1-Methylnaphthalene, ug/kg dw	<330
Date Extracted	12.13.93
Date Analyzed	12.15.93
Method Number	EPA 8100
Dilution factor	1
Percent Solids, %	81

TUT 006 1252

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REPORT OF RESULTS

Page 6

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

23812-4 Lab Blank
23812-5 Accuracy - % Recovery (Mean)
23812-6 Precision - Relative % Difference
23812-7 Detection Limit

PARAMETER	23812-4	23812-5	23812-6	23812-7
Purgeables (601/602)				
Bromodichloromethane, ug/l	<1.0	---	---	1.0
Bromoform, ug/l	<5.0	---	---	5.0
Bromomethane, ug/l	<1.0	---	---	1.0
Carbon tetrachloride, ug/l	<1.0	---	---	1.0
Chlorobenzene, ug/l	<1.0	98 %	7.1 %	1.0
Chloroethane, ug/l	<1.0	---	---	1.0
2-Chloroethylvinyl Ether, ug/l	<10J	---	---	10J
Chloroform, ug/l	<1.0	---	---	1.0
Chloromethane, ug/l	<1.0	---	---	1.0
Dibromochloromethane, ug/l	<1.0	---	---	1.0
1,2-Dichlorobenzene, ug/l	<1.0	---	---	1.0
1,3-Dichlorobenzene, ug/l	<1.0	---	---	1.0
1,4-Dichlorobenzene, ug/l	<1.0	---	---	1.0
Dichlorodifluoromethane, ug/l	<1.0	---	---	1.0
1,1-Dichloroethane, ug/l	<1.0	---	---	1.0
1,2-Dichloroethane, ug/l	<1.0	---	---	1.0
1,1-Dichloroethene, ug/l	<1.0	104 %	9.6 %	1.0
trans-1,2-Dichloroethylene, ug/l	<1.0	---	---	1.0
1,2-Dichloropropane, ug/l	<1.0	---	---	1.0
cis-1,3-Dichloropropene, ug/l	<1.0	---	---	1.0
trans-1,3-Dichloropropene, ug/l	<1.0	---	---	1.0
Methylene chloride, ug/l	<1.0	---	---	1.0

TUT 006 1253

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REPORT OF RESULTS

Page 7

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

23812-4 Lab Blank
23812-5 Accuracy - % Recovery (Mean)
23812-6 Precision - Relative % Difference
23812-7 Detection Limit

PARAMETER	23812-4	23812-5	23812-6	23812-7
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---	1.0
Tetrachloroethene, ug/l	<1.0	---	---	1.0
1,1,1-Trichloroethane, ug/l	<1.0	---	---	1.0
1,1,2-Trichloroethane, ug/l	<1.0	---	---	1.0
Trichloroethene, ug/l	<1.0	103 %	17 %	1.0
Trichlorofluoromethane, ug/l	<1.0	---	---	1.0
Vinyl chloride, ug/l	<1.0	---	---	1.0
Benzene, ug/l	<1.0	103 %	3.9 %	1.0
Ethylbenzene, ug/l	<1.0	---	---	1.0
Toluene, ug/l	<1.0	90 %	5.6 %	1.0
Xylenes, ug/l	<1.0	---	---	1.0
Methyl-tert-butyl ether (MTBE), ug/l	<10	---	---	10
Date Analyzed	12.10.93	---	---	---
Method Number	601/602	---	---	---
Petroleum Hydrocarbons				
Petroleum Hydrocarbons, mg/l	<1.0	96 %	1.0 %	1.0
Date Extracted	12.10.93	---	---	---
Date Analyzed	12.10.93	---	---	---
Method Number	EPA 418.1	---	---	---

TUT 006 1254

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REPORT OF RESULTS

Page 8

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID

23812-8 Lab Blank
23812-9 Accuracy - % Recovery (Mean)
23812-10 Precision - Relative % Difference
23812-11 Detection Limit

PARAMETER	23812-8	23812-9	23812-10	23812-11
Volatiles (8010/8020)				
Benzyl chloride, ug/kg dw	<5.0	---	---	5.0
Bromobenzene, ug/kg dw	<5.0	---	---	5.0
Bromodichloromethane, ug/kg dw	<5.0	---	---	5.0
Bromoform, ug/kg dw	<25	---	---	25
Bromomethane, ug/kg dw	<5.0	---	---	5.0
Carbon tetrachloride, ug/kg dw	<5.0	---	---	5.0
Chlorobenzene, ug/kg dw	<5.0	96 %	3.1 %	5.0
Chloroethane, ug/kg dw	<5.0	---	---	5.0
Chloroform, ug/kg dw	<5.0	---	---	5.0
1-Chlorohexane, ug/kg dw	<5.0	---	---	5.0
2-Chloroethylvinyl Ether, ug/kg dw	<50J	---	---	50J
Chloromethane, ug/kg dw	<5.0	---	---	5.0
Chlorotoluene, ug/kg dw	<5.0	---	---	5.0
Dibromochloromethane, ug/kg dw	<5.0	---	---	5.0
Dibromomethane, ug/kg dw	<5.0	---	---	5.0
1,2-Dichlorobenzene, ug/kg dw	<5.0	---	---	5.0
1,3-Dichlorobenzene, ug/kg dw	<5.0	---	---	5.0
1,4-Dichlorobenzene, ug/kg dw	<5.0	---	---	5.0
Dichlorodifluoromethane, ug/kg dw	<5.0	---	---	5.0
1,1-Dichloroethane, ug/kg dw	<5.0	---	---	5.0
1,2-Dichloroethane, ug/kg dw	<5.0	---	---	5.0
1,1-Dichloroethene, ug/kg dw	<5.0	97 %	16 %	5.0

TUT 006 1255

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LOG NO: D3-23812

Received: 09 DEC 93

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REPORT OF RESULTS

Page 9

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID

23812-8 Lab Blank
23812-9 Accuracy - % Recovery (Mean)
23812-10 Precision - Relative % Difference
23812-11 Detection Limit

PARAMETER	23812-8	23812-9	23812-10	23812-11
trans-1,2-Dichloroethylene, ug/kg dw	<5.0	---	---	5.0
Methylene chloride, ug/kg dw	<5.0	---	---	5.0
1,2-Dichloropropane, ug/kg dw	<5.0	---	---	5.0
1,3-Dichloropropylene, ug/kg dw	<5.0	---	---	5.0
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	---	---	5.0
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.0	---	---	5.0
Tetrachloroethene, ug/kg dw	<5.0	---	---	5.0
1,1,1-Trichloroethane, ug/kg dw	<5.0	---	---	5.0
1,1,2-Trichloroethane, ug/kg dw	<5.0	---	---	5.0
Trichloroethene, ug/kg dw	<5.0	101 %	9.9 %	5.0
Trichlorofluoromethane, ug/kg dw	<5.0	---	---	5.0
1,2,3-Trichloropropane, ug/kg dw	<5.0	---	---	5.0
Vinyl chloride, ug/kg dw	<5.0	---	---	5.0
Benzene, ug/kg dw	<5.0	100 %	5.0 %	5.0
Ethylbenzene, ug/kg dw	<5.0	---	---	5.0
Toluene, ug/kg dw	<5.0	98 %	0 %	5.0
Xylenes, ug/kg dw	<5.0	---	---	5.0
Methyl-tert-butyl ether (MTBE), ug/kg dw	<5.0	---	---	5.0
Date Analyzed	12.16.93	---	---	---
Method Number	8010/8020	---	---	---

TUT 006 1256

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REPORT OF RESULTS

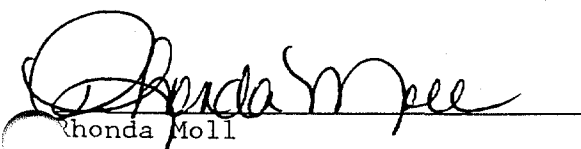
Page 10

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID

23812-8 Lab Blank
23812-9 Accuracy - % Recovery (Mean)
23812-10 Precision - Relative % Difference
23812-11 Detection Limit

PARAMETER	23812-8	23812-9	23812-10	23812-11
Polynuclear Aromatic Hydrocarbons (8100)				
Acenaphthene, ug/kg dw	<330	---	---	330
Acenaphthylene, ug/kg dw	<330	76 %	9.2 %	330
Benzo(a)pyrene, ug/kg dw	<330	---	---	330
Benzo(g,h,i)perylene, ug/kg dw	<330	---	---	330
Benzo(b,k)fluoranthene, ug/kg dw	<330	---	---	330
Chrysene + Benzo(a)anthracene, ug/kg dw	<330	---	---	330
Fluoranthene, ug/kg dw	<330	98 %	1.0 %	330
Fluorene, ug/kg dw	<330	82 %	8.5 %	330
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/kg dw	<330	---	---	330
Naphthalene, ug/kg dw	<330	70 %	13 %	330
Phenanthrene + Anthracene, ug/kg dw	<330	---	---	330
Pyrene, ug/kg dw	<330	100 %	0 %	330
2-Methylnaphthalene, ug/kg dw	<330	---	---	330
1-Methylnaphthalene, ug/kg dw	<330	---	---	330
Date Extracted	12.13.93	---	---	---
Date Analyzed	12.15.93	---	---	---
Method Number	EPA 8100	---	---	---

Method References: EPA 40 CFR Part, 136, EPA 600/4-79-020 and EPA SW-846. J
= Estimated Value.


Rhonda Moll

TUT 006 1257

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LOG NO: D3-23608

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Project: Four Winds
Sampled By: B. Green

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED	
23608-1	CHT-3 #1 (Vault)	11-17-93	
23608-2	CHT-3 #2 (Well)	11-17-93	
PARAMETER		23608-1	23608-2
Purgeables (601/602)			
Bromodichloromethane, ug/l		<1.0	<25
Bromoform, ug/l		<5.0	<130
Bromomethane, ug/l		<1.0	<25
Carbon tetrachloride, ug/l		<1.0	<25
Chlorobenzene, ug/l		<1.0	<25
Chloroethane, ug/l		<1.0	<25
2-Chloroethylvinyl Ether, ug/l		<10J	<250J
Chloroform, ug/l		<1.0	<25
Chloromethane, ug/l		<1.0	<25
Dibromochloromethane, ug/l		<1.0	<25
1,2-Dichlorobenzene, ug/l		<1.0	<25
1,3-Dichlorobenzene, ug/l		<1.0	<25
1,4-Dichlorobenzene, ug/l		<1.0	<25
Dichlorodifluoromethane, ug/l		<1.0	<25
1,1-Dichloroethane, ug/l		<1.0	<25
1,2-Dichloroethane, ug/l		<1.0	<25
1,1-Dichloroethene, ug/l		<1.0	<25
trans-1,2-Dichloroethylene, ug/l		<1.0	<25
1,2-Dichloropropane, ug/l		<1.0	<25
cis-1,3-Dichloropropene, ug/l		<1.0	<25
trans-1,3-Dichloropropene, ug/l		<1.0	<25
Methylene chloride, ug/l		<1.0	<25
1,1,2,2-Tetrachloroethane, ug/l		<1.0	<25
Tetrachloroethene, ug/l		<1.0	<25

TUT 006 1258

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Project: Four Winds
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REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED	
23608-1	CHT-3 #1 (Vault)	11-17-93	
23608-2	CHT-3 #2 (Well)	11-17-93	
PARAMETER		23608-1	23608-2
1,1,1-Trichloroethane, ug/l		<1.0	<25
1,1,2-Trichloroethane, ug/l		<1.0	<25
Trichloroethene, ug/l		<1.0	<25
Trichlorofluoromethane, ug/l		<1.0	<25
Vinyl chloride, ug/l		<1.0	<25
Benzene, ug/l		1.3	2200
Ethylbenzene, ug/l		2.5	1600
Toluene, ug/l		<1.0	<25
Xylenes, ug/l		23	1500
Methyl-tert-butyl ether (MTBE), ug/l		20	13000
Date Analyzed		11.23.93	11.23.93
Method Number		601/602	601/602
Dilution factor		1	25

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Project: Four Winds
Sampled By: B. Green

REPORT OF RESULTS

Page 3

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

23608-3 Lab Blank
23608-4 Accuracy - % Recovery (Mean)
23608-5 Precision - Relative % Difference
23608-6 Detection Limit

PARAMETER	23608-3	23608-4	23608-5	23608-6
Purgeables (601/602)				
Bromodichloromethane, ug/l	<1.0	---	---	1.0
Bromoform, ug/l	<5.0	---	---	5.0
Bromomethane, ug/l	<1.0	---	---	1.0
Carbon tetrachloride, ug/l	<1.0	---	---	1.0
Chlorobenzene, ug/l	<1.0	92 %	3.3 %	1.0
Chloroethane, ug/l	<1.0	---	---	1.0
2-Chloroethylvinyl Ether, ug/l	<10J	---	---	10J
Chloroform, ug/l	<1.0	---	---	1.0
Chloromethane, ug/l	<1.0	---	---	1.0
Dibromochloromethane, ug/l	<1.0	---	---	1.0
1,2-Dichlorobenzene, ug/l	<1.0	---	---	1.0
1,3-Dichlorobenzene, ug/l	<1.0	---	---	1.0
1,4-Dichlorobenzene, ug/l	<1.0	---	---	1.0
Dichlorodifluoromethane, ug/l	<1.0	---	---	1.0
1,1-Dichloroethane, ug/l	<1.0	---	---	1.0
1,2-Dichloroethane, ug/l	<1.0	---	---	1.0
1,1-Dichloroethene, ug/l	<1.0	95 %	6.3 %	1.0
trans-1,2-Dichloroethylene, ug/l	<1.0	---	---	1.0
1,2-Dichloropropane, ug/l	<1.0	---	---	1.0
cis-1,3-Dichloropropene, ug/l	<1.0	---	---	1.0
trans-1,3-Dichloropropene, ug/l	<1.0	---	---	1.0
Methylene chloride, ug/l	<1.0	---	---	1.0

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Project: Four Winds
Sampled By: B. Green

REPORT OF RESULTS

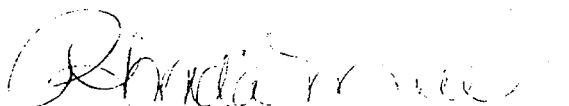
Page 4

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

23608-3 Lab Blank
23608-4 Accuracy - % Recovery (Mean)
23608-5 Precision - Relative % Difference
23608-6 Detection Limit

PARAMETER	23608-3	23608-4	23608-5	23608-6
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---	1.0
Tetrachloroethene, ug/l	<1.0	---	---	1.0
1,1,1-Trichloroethane, ug/l	<1.0	---	---	1.0
1,1,2-Trichloroethane, ug/l	<1.0	---	---	1.0
Trichloroethene, ug/l	<1.0	89 %	2.2 %	1.0
Trichlorofluoromethane, ug/l	<1.0	---	---	1.0
Vinyl chloride, ug/l	<1.0	---	---	1.0
Benzene, ug/l	<1.0	99 %	0 %	1.0
Ethylbenzene, ug/l	<1.0	---	---	1.0
Toluene, ug/l	<1.0	90 %	1.1 %	1.0
Xylenes, ug/l	<1.0	---	---	1.0
Methyl-tert-butyl ether (MTBE), ug/l	<10	---	---	10
Date Analyzed	11.23.93	---	---	---
Method Number	601/602	---	---	---

Method Reference: EPA 40 CFR Part 136. J = Estimated value.


Rhonda Moll

TUT 006 1261



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Project: Four Winds
Sampled By: B. Green

REPORT OF RESULTS

Page 4

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

23608-3 Lab Blank
23608-4 Accuracy - % Recovery (Mean)
23608-5 Precision - Relative % Difference
23608-6 Detection Limit

PARAMETER	23608-3	23608-4	23608-5	23608-6
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---	1.0
Tetrachloroethene, ug/l	<1.0	---	---	1.0
1,1,1-Trichloroethane, ug/l	<1.0	---	---	1.0
1,1,2-Trichloroethane, ug/l	<1.0	---	---	1.0
Trichloroethene, ug/l	<1.0	89 %	2.2 %	1.0
Trichlorofluoromethane, ug/l	<1.0	---	---	1.0
Vinyl chloride,,ug/l	<1.0	---	---	1.0
Benzene, ug/l	<1.0	99 %	0 %	1.0
Ethylbenzene, ug/l	<1.0	---	---	1.0
Toluene, ug/l	<1.0	90 %	1.1 %	1.0
Xylenes, ug/l	<1.0	---	---	1.0
Methyl-tert-butyl ether (MTBE), ug/l	<10	---	---	10
Date Analyzed	11.23.93	---	---	---
Method Number	601/602	---	---	---

Method Reference: EPA 40 CFR Part 136. J = Estimated value.


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TUT 006 1263



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Full 006 1264