

Table 3
 Groundwater Chemistry Results
 Final Field Parameters
 Key West Gas and Electric Light Company
 Key West, Monroe County, Florida
 February 2012

Sample ID	Monitoring Well	Well depth (feet)	Screen Interval (feet)	pH (Standard Units)	Temperature (Degrees C)	Specific Conductance (µmhos/cm)	Turbidity (NTU)
KGE001GW	TMW-1	14	10-14	7.8	25.0	7,460	15.3
KGE003GW	TMW-3	12	8-12	7.91	30.7	1,861	5.89
KGE004GW	TMW-4	12	8-12	7.68	27.0	1,289	5.21
KGE005GW	TMW-5	12	8-12	8.10	28.4	1,019	8.37
KGE006GW	TMW-6	12	8-12	7.61	25.6	756	9.78
KGE007GW	TMW-7	12	8-12	7.59	28.3	763	70

Note: These final values were collected after the purging phase just prior to sampling.

Key:

NTU= nephelometric turbidity units
 µmhos/cm= micro-mhos per centimeter
 C= Centigrade



Table 4a
 Surface Soil Metals & Cyanide Analyses
 Key West Gas and Electric Light Company
 Key West, Monroe County, Florida
 February 2012

SURFACE SOIL	SCTL										SCTL GW Leach
	KGE001SF*	KGE003SF	KGE004SF	KGE002SF	KGE005SF	KGE006SF	KGE007SF	Residential Soil	Industrial Soil	mg/kg	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	11	—	—	19	—	11	—	2.1	12	NS	
Barium	140	—	62	110	61 J	160	67 J	120	130,000	1600	
Cadmium	1.9 R	—	—	1.4 R	—	3.5 R	—	82	1,700	7.5	
Chromium	12	2.8 J	9.0	9.6	5.1 J	18	4.5 J	210	470	38	
Cyanide	—	—	—	—	—	—	—	34	11,000	0.80	
Lead	900	55	150	170	260	440	380	400	1,400	NS	
Mercury	0.92	—	—	0.13	—	0.28	0.12	3	17	2.1	
Selenium	—	—	—	—	—	1.6 J	—	440	11,000	5.2	
Silver	—	—	—	—	—	—	—	410	8,200	17	

Table 4b
 Subsurface Soil Metals & Cyanide Analyses
 Key West Gas and Electric Light Company
 Key West, Monroe County, Florida
 February 2012

ANALYTE	SUBSURFACE SOIL										SCTL GW mg/kg
	KGE001SB*	KGE003SB	KGE004SB	KGE604SB	KGE005SB	KGE006SB	KGE007SB	SCTL Residential Soil mg/kg	SCTL Industrial Soil mg/kg	SCTL Leach mg/kg	
Arsenic	---	---	---	---	---	---	---	2.1	12	NS	
Barium	---	---	---	---	---	---	---	120	130,000	1600	
Cadmium	---	---	---	---	---	---	---	82	1,700	7.5	
Chromium	5.7U	---	---	---	---	---	---	210	470	38	
Cyanide	---	---	---	---	---	---	---	34	11,000	0.80	
Lead	2.5 J	---	---	---	---	---	---	400	1,400	NS	
Mercury	---	---	---	---	---	---	---	3	17	2.1	
Selenium	---	---	---	---	---	---	---	440	11,000	5.2	
Silver	---	---	---	---	---	---	---	410	8,200	17	

Table 4c
Groundwater Metals & Cyanide Analyses
Key West Gas and Electric Light Company
Key West, Monroe County, Florida
February 2012

Analyte	GROUNDWATER							Federal MCL µg/l	GCTL µg/l	KGE007GW µg/l	KGE006GW µg/l	KGE005GW µg/l	KGE904GW µg/l	KGE004GW µg/l	KGE003GW µg/l	CLP Metals Blank KGEQA01 µg/l	Preservative Blank KGEQA02 µg/l
	KGE001GW µg/l	KGE004GW µg/l	KGE003GW µg/l	KGE004GW µg/l	KGE904GW µg/l	KGE005GW µg/l	KGE006GW µg/l										
Arsenic	—	—	—	—	—	—	—	10	—	—	—	—	—	—	—	—	—
Barium	—	—	—	—	—	—	—	2000	—	—	—	—	—	—	—	—	—
Cadmium	—	—	—	—	—	—	—	5	—	—	—	—	—	—	—	—	—
Chromium	—	—	—	—	—	3.0 J	—	100	—	—	—	—	—	—	—	—	—
Cyanide	10U	—	—	—	—	—	—	200	10	—	—	—	—	—	—	—	—
Lead	—	—	—	—	—	—	—	15	—	—	—	—	—	—	—	—	—
Mercury	0.036 J	—	0.11 J	—	—	—	—	2	—	0.076 J	—	—	—	—	0.090 J	—	0.027 J
Selenium	—	—	—	0.22	0.050 J	—	—	50	—	—	0.12 J	—	—	—	—	—	—
Silver	—	—	—	—	—	—	—	100	—	—	—	—	—	—	—	—	—

Table 4d
Sediment Soil Metals Analyses
Key West, Gas and Electric Light Company
Key West, Monroe County, Florida
February 2012

SEDIMENT Analyte	KGES001SD* mg/kg	KGES002SD mg/kg	KGES003SD mg/kg	KGES603SD mg/kg	KGES004SD mg/kg	KGES005SD mg/kg	SQAG TEL ppm	SQAG PEL ppm
Arsenic	—	3.6	—	—	—	—	7.24	41.6
Barium	—	—	—	—	—	51	NG	NG
Cadmium	—	—	—	—	—	0.25 R	0.676	4.21
Chromium	2.6 J	2.1	2.0	2.4	2.1	7.0	52.3	160
Cyanide	—	—	—	—	—	—	NG	NG
Lead	8.2	58	10	12	10	26	30.2	112
Mercury	—	—	—	—	—	—	0.13	0.696
Selenium	—	—	—	—	—	—	NG	NG
Silver	—	—	—	—	—	—	ID	ID

QUALIFIER:

- J — The identification of the analyte is acceptable; the reported value is an estimate.
- R — The presence or absence of the analyte cannot be determined from the data due to severe quality control problems. The data are rejected and considered unusable.
- U — The analyte was not detected at or above the reporting limit.
- NS — No Standard

KEY:

- Bold**-lettering implies exceedance of State SCTLs, GCTLs, MCLs or SQAGs.
- Shaded**-Observed Contamination per Federal Register, 12-14-90, Vol. 55 No.241, EPA 40 CFR Part 300 Hazard Ranking System Table 2-3
- * Background Sample
- *** Leachability values may be derived using SPLP Test to calculate site specific SCTLs or may be determined using TCLP as described in the December 14, 2004 "Final Technical Report: Development of Clean-up Target Levels (TCLs) for Chapter 62-777, F.A.C
- SCTL-State of Florida Soil Cleanup Target Level- Chapter 62-777, F.A.C (revised 4/17/05)
- GCTL-Groundwater Cleanup Target Level 62-777 F.A.C. (rev. 4/17/05)
- MCL-maximum contaminant Level
- SQAG-Sediment Quality Assessment Guideline Based on Approach to Assessment of Sediment Quality in Florida Coastal Waters by D.D MacDonnald. 11/94
- TEL-Toxic Effect Level
- PEL-Probable Effect Level
- NG- No Guideline

Table 5a
 Volatile Organic Compounds in Surface Soils
 Key West Gas & Electric Light Company
 Key West, Monroe County, Florida
 February 2012

SURFACE SOIL	Trip Blank		Background		KGE001SF	KGE002SF	KGE003SF	KGE004SF	KGE005SF	KGE006SF	KGE007SF	SCTL Industrial Soil	SCTL GW Leach Soil
	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry									
Analyte													
1,2,3-Trichlorobenzene	—	—	—	—	—	—	—	—	0.42 J	—	—	8,2000,000	4,600
1,2-Dibromoethane (EDB)	—	—	—	0.19 J	—	—	—	—	—	—	—	200	0.1
Benzene	—	—	—	0.51 J	—	—	—	—	2.1 J	—	—	1,700	7
Dibromochloromethane	—	—	—	0.19 J	—	—	—	—	—	—	—	2,300	3
Dimethylocane (TIC)	—	—	—	—	—	—	—	—	10 NJ	—	—	NS	NS
Tetrachloroethene (Tetrachloroethylene)	—	—	—	—	—	—	—	—	—	1.6 J	—	18,000	30
Toluene	1.8 J	0.31 J	—	0.45 J	—	—	—	—	2.0 J	—	—	60,000,000	500
Trimethyldecane (TIC)	—	—	—	—	—	—	—	—	10 NJ	—	—	NS	NS

Table 5b
 Volatile Organic Compounds in Subsurface Soils
 Key West Gas & Electric Light Company
 Key West, Monroe County, Florida
 February 2012

SUBSURFACE SOIL	Trip Blank		Background		KGE001SB	KGE003SB	KGE004SB	KGE604SB	KGE005SB	KGE006SB	KGE007SB	SCTL Industrial Soil µg/kg	SCTL GW Leach Soil µg/kg
	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry									
Analyte	—	—	—	—	—	—	—	—	—	—	—	3,900,000	1,900
1,1,1-Trichloroethane	—	—	1.9 J	2.4 J	—	—	—	—	—	—	—	95,000	300
1,2,4-Trimethylbenzene	—	0.52UJ	4.7 J	12 J	0.18 J	—	—	—	—	—	2.4 J	80,000	300
1,3,5-Trimethylbenzene	—	—	2.6 J	7.3 J	0.44 J	—	—	—	—	—	—	9,200,000	600
Ethyl Benzene	—	—	—	0.27 J	0.30 J	—	—	—	—	—	—	1,200,000	200
Isopropylbenzene	—	0.52UJ	0.38 J	0.95 J	1.2 J	—	—	—	—	—	42 J	NS	NS
n-Propylbenzene	—	0.52UJ	—	—	0.28 J	—	—	—	—	—	74 J	700,000	200
m- and/or p-Xylene	—	—	—	0.58 J	—	—	—	—	—	—	—	700,000	NS
o-Xylene	—	0.52UJ	0.72 J	1.8 J	0.72 J	—	—	—	—	—	5.2 J	NS	NS
p-Isopropyltoluene	—	0.52UJ	0.95 J	2.4 J	—	—	—	—	—	—	36 J	NS	NS
sec-Butylbenzene	—	0.52UJ	0.21 J	—	0.50 J	—	—	—	—	—	52 J	NS	NS
Styrene	—	—	0.75 J	0.91 J	—	—	—	—	—	—	—	23,000,000	3,600
Tetrachloroethene (Tetrachloroethylene)	—	—	—	—	—	—	—	—	—	1.3 J	—	18,000	30
Toluene	1.8 J	—	—	—	—	—	—	—	—	0.32 J	0.23 J	60,000,000	500

Table 5c
 Volatile Organic Compounds in Groundwater
 Key West Gas & Electric Light Company
 Key West, Monroe County, Florida
 February 2012

Analyte	Trip Blank		Background		Dup - 004							GC TL µg/L	Federal MCL µg/L			
	µg/L	KGEQA03 µg/L	µg/L	KGE001GW µg/L	µg/L	KGE003GW µg/L	µg/L	KGE004GW µg/L	µg/L	KGE904GW µg/L	µg/L			KGE005GW µg/L	µg/L	KGE006GW µg/L
1,2,4-Trimethylbenzene	—	—	—	—	0.75	1.5	5.6	—	—	—	—	1.7	—	—	10	NS
1,3,5-Trimethylbenzene	—	—	—	—	0.45	0.87	1.4	—	—	—	—	0.78	—	—	10	NS
Benzene	—	—	—	—	—	0.18	—	—	—	—	—	—	—	—	1	5
Bromomethane	—	—	—	—	—	—	—	—	—	—	—	0.33	—	—	9.8	NS
Carbon disulfide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	700	NS
Chlorobenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100	NS
Cyclohexane	—	—	—	—	1.1	3.7	8.1	—	—	—	—	—	—	—	NS	NS
Ethyl Benzene	—	—	—	—	0.12	0.28	2.1	—	—	—	—	—	—	—	30	700
Isopropylbenzene	—	—	—	0.5U	1.9	2.6	6.6	—	—	—	—	4.6	—	—	0.80	NS
Methylcyclohexane	—	—	—	—	—	—	1.0	—	—	—	—	—	—	—	NS	NS
n-Butylbenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NS	NS
n-Propylbenzene	—	—	—	—	0.78	1.1	1.6	—	—	—	—	0.18	—	—	NS	NS
(m- and/or p-)Xylene	—	—	—	—	0.84	1.2	4.3	—	—	—	—	—	—	—	NS	NS
o-Xylene	—	—	—	—	0.40	0.70	2.1	—	—	—	—	0.84	—	—	NS	NS
Total Xylenes	—	—	—	—	1.24	1.90	6.4	—	—	—	—	0.84	—	—	20	10,000
p-Isopropyltoluene	—	—	—	—	0.5	0.68	2.7	—	—	—	—	—	—	—	NS	NS
sec-Butylbenzene	—	—	—	—	0.35	0.44	1.2	—	—	—	—	1.3	—	—	NS	NS
Styrene	—	—	—	—	—	—	0.72	—	—	—	—	0.21	—	—	100	100
tert-Butylbenzene	—	—	—	—	0.21	0.28	0.20	—	—	—	—	0.27	—	—	NS	NS
Toluene	—	—	—	—	—	0.14	0.63	—	—	—	—	—	—	—	40	1000

Table 5d
 Volatile Organic Compounds in Sediments
 Key West Gas & Electric Light Company
 Key West, Monroe County, Florida
 February 2012

SEDIMENTS	KGQA04 µg/kg dry	KGES001SD Background µg/kg dry	KGES002SD µg/kg dry	KGES003SD µg/kg dry	KGES004SD µg/kg dry	KGES005SD Stormdrain µg/kg dry	SQAG TEL µg/kg	SQAG PEL µg/kg
Analyte								
1,2,4-Trimethylbenzene	—	—	—	—	—	26 J	NG	NG
1,3,5-Trimethylbenzene	—	—	—	—	—	17 J	NG	NG
Acetone	—	6.3UJ	—	—	—	140 J	NG	NG
Benzene	—	—	—	—	—	0.50 J	NG	NG
Carbon disulfide	—	0.66 J	0.42 J	0.49 J	0.56 J	4.8 J	NG	NG
Ethyl Benzene	—	—	—	—	—	11 J	NG	NG
Limmonene (TIC)	—	—	—	—	—	400 NJ	NG	NG
Methyl Ethyl Ketone	—	1.6UJ	—	—	—	340 J	NG	NG
n-Propylbenzene	—	—	—	—	—	2.9 J	NG	NG
p-Isopropyltoluene	—	—	—	—	—	50 J	NG	NG
sec-Butylbenzene	—	—	—	—	—	1.2 J	NG	NG
Toluene	1.8 J	0.79UJ	—	—	—	230 J	NG	NG
o-Xylene	—	—	—	—	—	10 J	NG	NG
(m- and/or p-)Xylene	—	—	—	—	—	24 J	NG	NG

QUALIFIER:

- J — The identification of the analyte is acceptable; the reported value is an estimate.
- N — There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
- NJ — Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
- R — The presence or absence of the analyte cannot be determined from the data due to severe quality control problems. The data are rejected and considered unusable.
- U&- — The analyte was not detected at or above the reporting limit.
- NS — No Standard

KEY:

- Bold** - Lettering implies exceedance of State SCTLs, GCTLs, MCLs or SQAGs.
- Shaded** - Observed Contamination per Federal Register, 12-14-90, Vol. 55 No.241, EPA 40 CFR Part 300 Hazard Ranking System Table 2-3
- * Background Sample
- *** Leachability values may be derived using SPLP Test to calculate site specific SCTLs or may be determined using TCLP as described in the December 14, 2004 "Final Technical Report: Development of Clean-up Target Levels (TCLs) for Chapter 62-777, F.A.C
- SCTL-State of Florida Soil Cleanup Target Level- Chapter 62-777, F.A.C (revised 4/17/05)
- GCTL-Groundwater Cleanup Target Level 62-777 F.A.C. (rev. 4/17/05)

KEY (Cont.):

MCL-maximum contaminant Level

SQA-G-Sediment Quality Assessment Guideline Based on Approach to Assessment of Sediment Quality in Florida Coastal Waters by D.D. MacDonnald, 11/94

TEL-Toxic Effect Level

PEL-Probable Effect Level

NG-No Guideline

Table 6a
Semi-Volatile Organic Compounds in Surface Soils
Key West Gas & Electric Light Company
Key West, Monroe County, Florida
February 2012

Analyte	KGE001SF Background		KGE002SF		KGE003SF		KGE004SF		KGE005SF		KGE006SF		KGE007SF		SCTL Resident Soil	SCTL Industrial Soil	SCTL GW Leach
	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg	µg/kg	µg/kg
1,1-Biphenyl	210U	—	—	—	130 J	—	—	—	—	—	—	—	—	—	3,000,000	34,000,000	200
2-Methyl-4,6-dinitrophenol	410U	—	—	—	—	—	—	—	—	—	370 J	—	—	—	NS	NS	NS
2-Methylnaphthalene	270	—	—	—	850 J	—	210 J	—	—	—	—	—	—	210,000	2,100,000	8,500	
Acenaphthylene	120 J	260 J	—	2500	5500	—	2500	—	80 J	—	80 J	—	130 J	1,800,000	20,000,000	27,000	
Anthracene	94 J,	84 J	—	1000 J	2400 J	—	1000 J	—	—	—	—	—	78 J	21,000,000	300,000,000	2,500,000	
Benzo(a)anthracene	430	310	—	3100	4500	—	3100	—	120 J,O	—	120 J,O	—	380	#	#	800	
Benzo(b)pyrene	450	820	—	10000	19000	—	10000	—	200	690	200	—	690	100	700	8,000	
Benzo(k)fluoranthene	330	440	—	5300	12000	—	5300	—	220	420	—	—	420	#	#	2,400	
Benzo(g,h,i)perylene	350	1800	—	19000	29000	—	19000	—	—	—	—	—	850	2,500,000	52,000,000	32,000	
Benzo(k)fluoranthene	510	420	—	4600	11000	—	4600	—	180 J,O	—	180 J,O	—	440	#	#	24,000	
Dibenz(a,h)anthracene	140 J	290	—	3900	7000	—	3900	—	85 J	200	85 J	—	200	#	#	700	
Fluoranthene	580	360	—	2400 J	1800 J	—	2400 J	—	310	390 J	310	—	390 J	3,200,000	59,000,000	1,200,000	
Fluorene	210U	—	—	350 J	1100 J	—	350 J	—	—	—	—	—	—	2,600,000	33,000,000	160,000	
Indeno (1,2,3-cd) pyrene	320	760	110 J	7800	14000	—	7800	—	170 J	450	170 J	—	450	#	#	6,600	
Naphthalene	160 J	81 J	—	—	510 J	—	—	—	—	—	—	—	—	55,000	300,000	1,200	
Phenanthrene	300	310	—	390 J	710 J	—	390 J	—	210	240 J	210	—	240 J	2,200,000	36,000,000	250,000	
Pyrene	510	760	—	13000	8100	—	13000	—	220	870	220	—	870	2,400,000	45,000,000	880,000	
BaP TEQ	700	1300	200	15600	29200	—	15600	—	300	1,000	300	—	1,000	100	700	NS	
1H-Benzo[a]fluorene	700 NJ	600 NJ	NR	1000 NJ	NR	NR	1000 NJ	NR	NR	NR	NR	NR	NR	NS	NS	NS	
1H-one	NR	NR	NR	2000 NJ	NR	NR	2000 NJ	NR	NR	NR	NR	NR	NR	NS	NS	NS	
1H-Indene, 1-ethylidene-	NR	NR	NR	NR	1000 NJ	NR	NR	1000 NJ	NR	NR	NR	NR	NR	NS	NS	NS	
1H-Phenylene	NR	NR	NR	2000 NJ	2000 NJ	NR	2000 NJ	NR	NR	NR	NR	NR	NR	NS	NS	NS	
3-Formoxy-androstan-	NR	600 NJ	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NS	NS	NS	
11-o-17-one	NR	NR	NR	NR	2000 NJ	NR	NR	2000 NJ	NR	NR	NR	NR	NR	NS	NS	NS	
9,10-Dimethylanthracene	NR	NR	NR	NR	2000 NJ	NR	NR	2000 NJ	NR	NR	NR	NR	NR	NS	NS	NS	
Anthracene, 2-methyl-	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NS	NS	NS	

Table 6a
 Semi-Volatile Organic Compounds in Surface Soils
 Key West Gas & Electric Light Company
 Key West, Monroe County, Florida
 February 2012

Analyte	KGE001SF	KGE002SF	KGE003SF	KGE004SF	KGE005SF	KGE006SF	KGE007SF	SCTL Resident Soil	SCTL Industrial Soil	SCTL GW Leach
	µg/kg dry Background	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg	µg/kg	µg/kg
Bacchotricuncatin c	NR	NR	NR	NR	2000 NJ	NR	NR	NS	NS	NS
Benzene, (2-methyl-1- propenyl)-	NR	NR	NR	NR	1000 NJ	NR	NR	NS	NS	NS
Benzocycloheptatriene	NR	NR	NR	900 NJ	4000 NJ	NR	NR	NS	NS	NS
Benzo[<i>c</i>]pyrene	NR	900 NJ	NR	NR	NR	NR	NR	NS	NS	NS
Chrysene, 6-methyl-	NR	NR	NR	1000 NJ	NR	NR	NR	NS	NS	NS

Table 6b
Semi-Volatile Organic Compounds in Subsurface Soils
Key West Gas & Electric Light Company
Key West, Monroe County, Florida
February 2012

Dup - 004

SUBSURFACE SOIL	KGE001SB Background										KGE003SB	KGE004SB	KGE604SB	KGE005SB	KGE006SB	KGE007SB	SCIL Resident Soil	SCIL Industrial Soil	SCTL Leach Soil
	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry									
2-Methylnaphthalene	200U	990 J	710 J	370 J	200U	200U	210,000	2,100,000	2,100,000	8,500									
Acenaphthene	200U	590 J	380 J	410 J	200U	200U	2,400,000	2,400,000	2,100,000	2,100									
Acenaphthylene	200U	3700	2800 J	—	200U	200U	1,800,000	20,000,000	20,000,000	27,000									
Anthracene	200U	1700	1000	—	200U	200U	21,000,000	300,000,000	300,000,000	800									
Benzo(a)anthracene	200U	3900	1900	—	200U	200U	100	700	700	8,000									
Benzo(a)pyrene	200U	18000	10000	—	200U	200U	2,500,000	52,000,000	52,000,000	2,400									
Benzo(b)fluoranthene	200U	9000	5300	—	200U	200U	—	—	—	32,000									
Benzo(g,h,i)perylene	200U	18000	10000	—	200U	200U	—	—	—	24,000									
Benzo(k)fluoranthene	200U	6500	4900	—	200U	200U	—	—	—	700									
Dibenzo(a,h)anthracene	200U	4000	2700	—	200U	200U	—	—	—	—									
Fluoranthene	200U	2800	1800	—	200U	200U	3,200,000	59,000,000	59,000,000	1,200,000									
Fluorene	200U	580 J	640 J	—	200U	200U	2,600,000	33,000,000	33,000,000	160,000									
Indeno (1,2,3-cd) pyrene	200U	9200	5300	—	200U	200U	—	—	—	6,600									
Naphthalene	200U	580 J	350 J	—	200U	200U	55,000	300,000	300,000	1,200									
Phenanthrene	200U	2200	1300	—	200U	200U	2,200,000	36,000,000	36,000,000	250,000									
Pyrene	200U	21000	12000	—	200U	200U	2,400,000	45,000,000	45,000,000	880,000									
BaP TEQ	0	24300	14000	—	0	0	100	700	700	NA									
1-Iodo-2-methylundecane	—	—	—	—	—	—	NS	NS	NS	NS									
1-Nonadecene	—	—	900 NJ	—	—	—	NS	NS	NS	NS									
Benzo[b]triphenylene	—	—	NR	—	—	—	NS	NS	NS	NS									
Cyclopenta(def)phenanthrene	—	2000 NJ	NR	—	—	—	NS	NS	NS	NS									
Ethanol, 2-(tetradecyloxy)-	—	—	NR	—	—	—	NS	NS	NS	NS									
Methylanthracene	—	—	900 NJ	—	—	—	NS	NS	NS	NS									
Naphthalene, 1,4,6-trimethyl-	—	1000 NJ	—	—	—	—	NS	NS	NS	NS									
Perylene	—	—	800 NJ	—	—	—	NS	NS	NS	NS									

Table 6b
 Semi-Volatile Organic Compounds in Subsurface Soils
 Key West Gas & Electric Light Company
 Key West, Monroe County, Florida
 February 2012

Dup - 004

SUBSURFACE SOIL	KGE001SB Background										SCTL GW Leach Soil µg/kg	
	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry	µg/kg dry		
Perylene, 3-methyl-	—	—	—	—	—	—	—	—	—	—	NS	NS
Phenanthrene, 1-methyl-	—	—	—	—	—	—	—	—	—	—	NS	NS
Pyrene, 2-methyl-	—	—	—	—	—	—	—	—	—	900 NJ	NS	NS
Trimesic trihydroxamic acid	—	—	—	—	—	—	—	—	—	—	NS	NS
Unidentified Compound(s)	2000 J	300 J	30000 J	20000 J	20000 J	20000 J	2000 J	2000 J	20000 J	20000 J	NS	NS

Table 6c
Semi-Volatile Organic Compounds in Groundwater
Key West Gas & Electric Light Company
Key West, Monroe County, Florida
February 2012

Analyte	Dup - 004										State GCTL ug/l	Federal MCL ug/l	
	KGE001GW ug/l	KGE003GW ug/l	KGE004GW ug/l	KGE904GW ug/l	KGE005GW ug/l	KGE006GW ug/l	KGE007GW ug/l	KGE008GW ug/l	KGE009GW ug/l	KGE010GW ug/l			
2-Methylnaphthalene	5.0U	—	—	—	13	—	—	—	—	—	—	28	NS
Acenaphthene	5.0U	—	—	—	48	—	—	—	—	—	29	20	NS
Acenaphthylene	5.0U	—	—	—	15	—	—	—	—	—	19	210	NS
Acetophenone	5.0U	—	—	—	4.3 J	—	—	—	—	—	—	700	NS
Anthracene	5.0U	—	—	—	7.8	—	—	—	—	—	—	2,100	NS
Fluoranthene	5.0U	—	4.7 J	6.1	6.5	3.1 J	—	—	—	—	6.1	280	NS
Fluorene	5.0U	—	—	—	3.2 J	—	—	—	—	—	—	280	NS
Naphthalene	5.0U	—	2.4 J	—	32	—	—	—	—	—	—	14	NS
Phenanthrene	5.0U	—	6.8	4.8 J	40	—	—	—	—	—	2.5 J	210	NS
Pyrene	5.0U	—	8.7	11	11	6.8	—	—	—	—	11	210	NS
Unidentified Compound(s)	70 J	50 J	70 J	10 J	50 J	40 J	—	—	—	—	70 J	NS	NS
1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	—	—	—	10 NJ	—	—	—	—	—	—	—	NS	NS
1H-Cyclopropa[1]phenanthrene, 1a,9b-dihydro-	—	—	20 NJ	—	—	—	—	—	—	—	—	NS	NS
1H-Indene, 1,3-dimethyl-	—	—	—	—	20 NJ	—	—	—	—	—	—	NS	NS
1H-Indene, 2,3-dimethyl-	—	—	—	—	20 NJ	—	—	—	—	—	—	NS	NS
1H-Phenylene	—	—	—	—	20 NJ	—	—	—	—	—	—	NS	NS
4H-Cyclopenta[def]phenanthrene	—	—	—	20 NJ	—	—	—	—	—	—	—	NS	NS
Bromacil	—	—	—	—	—	—	—	—	—	10 NJ	—	NS	NS
Naphthalene, 1,3-dimethyl-	—	—	—	—	—	—	—	—	—	—	—	NS	NS
Naphthalene, 1,6,7-trimethyl-	—	—	—	—	—	—	—	—	—	—	—	NS	NS
Naphthalene, 1-ethyl-	—	—	—	—	—	—	—	—	—	—	—	NS	NS
Naphthalene, 1-methyl-	—	—	—	—	—	—	—	—	—	—	—	NS	NS
Naphthalene, 2,3,6-trimethyl-	—	—	—	—	50 NJ	—	—	—	—	—	—	NS	NS
Naphthalene, 2,3-dimethyl-	—	—	—	—	20 NJ	—	—	—	—	—	—	NS	NS
Naphthalene, 2,7-dimethyl-	—	—	—	—	40 NJ	—	—	—	—	—	—	NS	NS
Phenanthrene, 1-methyl-	—	—	—	—	20 NJ	—	—	—	—	—	—	NS	NS
Phenanthrene, 2-methyl-	—	—	—	10 NJ	—	—	—	—	—	—	—	NS	NS

Table 6d
 Semi-Volatile Organic Compounds in Sediments
 Key West Gas & Electric Light Company
 Key West, Monroe County, Florida
 February 2012

SEDIMENTS	KGES001SD Background ug/kg dry	KGES002SD ug/kg dry	KGES003SD ug/kg dry	KGES603SD ug/kg dry	KGES004SD ug/kg dry	KGES005SD Stormdrain ug/kg dry	SQAG TEL ug/kg	SQAG PEL ug/kg
Analyte (3 &/or 4) methylphenol	280U	--	--	--	--	850J	NG	NG
Benzo(a)anthracene	280U	--	--	--	--	140J	74.8	693
Benzo(b)fluoranthene	280U	--	--	--	--	350	NG	NG
Benzo(k)fluoranthene	280U	--	--	--	--	260J	NG	NG
Bis (2-ethyl hexyl) phthalate	280U	--	--	--	--	490	182	2,647
Chrysene	280U	--	--	--	--	340J	108	846
Fluoranthene	280U	--	--	--	--	290J	113	1,494
Indeno (1,2,3-cd) pyrene	280U	--	--	--	--	220J	NS	NG
Pyrene	280U	--	--	--	--	340J	153	1,398
Unidentified Compound(s)	1000J	--	1000J	2000J	3000J	6000J	NG	NG

QUALIFIER:

- J -- The identification of the analyte is acceptable; the reported value is an estimate.
- N -- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
- NU -- Presumptive evidence that analyte is present, reported as a tentative identification with an estimated value.
- R -- The presence or absence of the analyte cannot be determined from the data due to severe quality control problems. The data are rejected and considered unusable.
- U& -- The analyte was not detected at or above the reporting limit.
- NS -- No Standard

KEY:

Bold – lettering implies exceedance of State SCTLs, GCTLs, MCLs or SOAGs

Shaded–Observed Contamination per Federal Register. 12-14-90. Vol. 55 No.241. EPA 40 CFR Part 300 Hazard Ranking System Table 2-3

* Background Sample

*** Leachability values may be derived using SPLP Test to calculate site specific SCTLs or may be determined using TCLP as described in the December 14, 2004 "Final Technical Report: Development of Clean-up Target Levels (TCLs) for Chapter 62-777.

F.A.C

SCTL–State of Florida Soil Cleanup Target Level- Chapter 62-777, F.A.C (revised 4/17/05)

GCTL–Groundwater Cleanup Target Level 62-777 F.A.C. (rev. 4/17/05)

MCL–maximum contaminant Level

SQAG–Sediment Quality Assessment Guideline Based on Approach to Assessment of Sediment Quality in Florida Coastal Waters by D.D MacDonnald. 11/94

TEL–Toxic Effect Level

PEL–Probable Effect Level

NG– No Guideline