## October 5<sup>th</sup>

2005

#### KEY LARGO WASTEWATER TREATMENT DISTRICT BOARD OF COMMISSIONERS

#### AGENDA



Wednesday, October 5, 2005 at 5:00 PM 98880 Overseas Hwy Key Largo, FL 33037

Charles Brooks
Gary Bauman
Andrew Tobin
Glenn Patton
Claude Bullock

Chairman
Vice Chairman
Secretary-Treasure
Commissioner
Commissioner

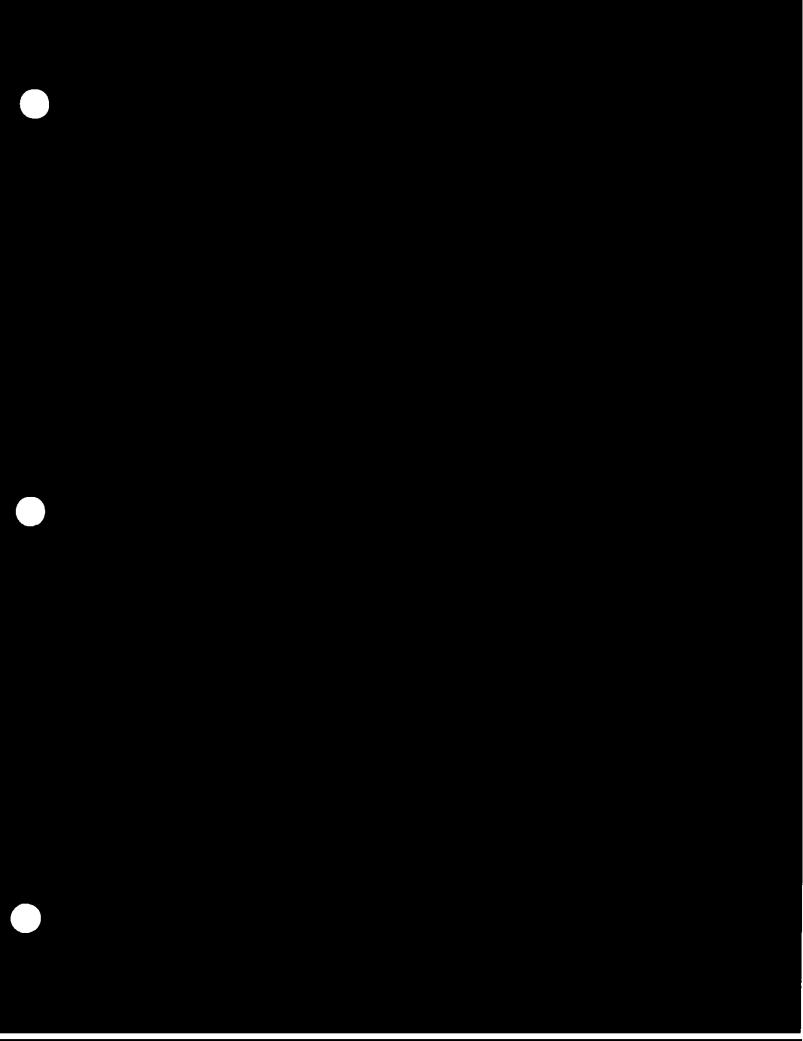
Charles F. Fishburn Thomas Dillon Carol Walker General Manager District Counsel Board Clerk

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision of the KLWTD Board, with respect to any matter considered at this meeting, such interested person will need a record of the proceedings, and for such purpose, may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Persons with disabilities requiring accommodations in order to participate in the meeting should contact the Board Clerk at 305-451-5105 at least 48 hours in advance to request accommodations.

- A. CALL TO ORDER
- B. PLEDGE OF ALLEGIANCE
- C. ROLL CALL
- D. APPROVAL OF AGENDA WITH ANY ADDITIONS OR DELETIONS
- E. PUBLIC COMMENT
- F. COMMISSIONERS ROUND TABLE
- G. COMMISSIONER ITEMS
  - 1. Next Project (Commissioner Patton)

TAB 1

Н.	2.	BULK ITEMS Pending Payments List	TAB 2
I.	3.	ACTION ITEMS Sexton Cove/Lake Surprise Collection System Engineering Work Order	TAB 3
	4.	Regional Treatment Plant Engineering Work Order	TAB 4
J.		DISCUSSION ITEMS	
K.	5.	STATUS REPORTS Weiler Engineering Status Report	TAB 5
Ţ		ADJOURNMENT	

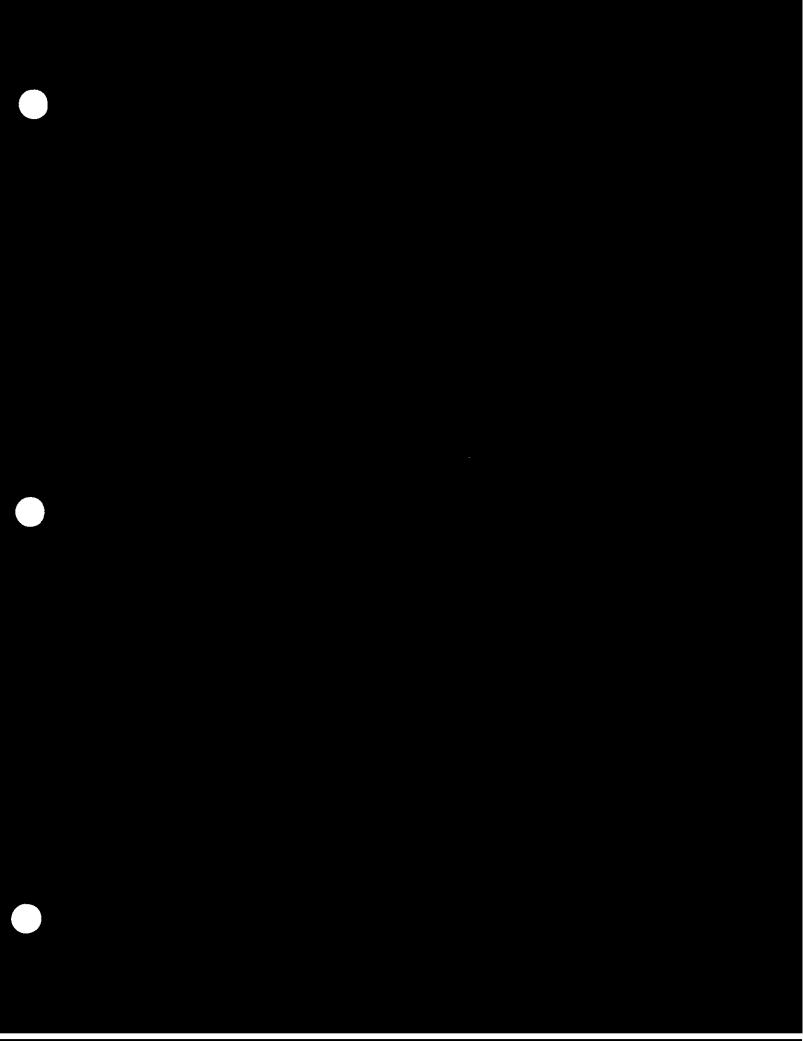


Meeting Date: Oct. 5,	2005	Agenda	a Item No. /
[ ] PUBLIC HEARING		[]	RESOLUTION
[X] DISCUSSION		[]	BID/RFP AWARD
[] GENERAL APPROV	AL OF ITEM	[] (	CONSENT AGENDA
[] Other:			
SUBJECT: Next Project			
Engineering to be set for the Approved by General Man Date: 9-36-05	e Oct. 19, 2005 me	eting.	approval of work order for Weiler
Originating Department: Commissioner Patton	Costs: Approximatel Funding Source: MS Acct.	•	Attachments:
Department Review: [] District Counsel [] General Manager Office [] Finance	Engineering [] Clerk	C	Advertised: Date: Paper: [X] Not Required
	All parties that have a in this agenda item motified of meeting datime. The following be filled out to be on	nust be ate and oox must	Yes I have notified everyone Or Not applicable in this case:
		and plan	n components project is funded and the next project and/or projects.

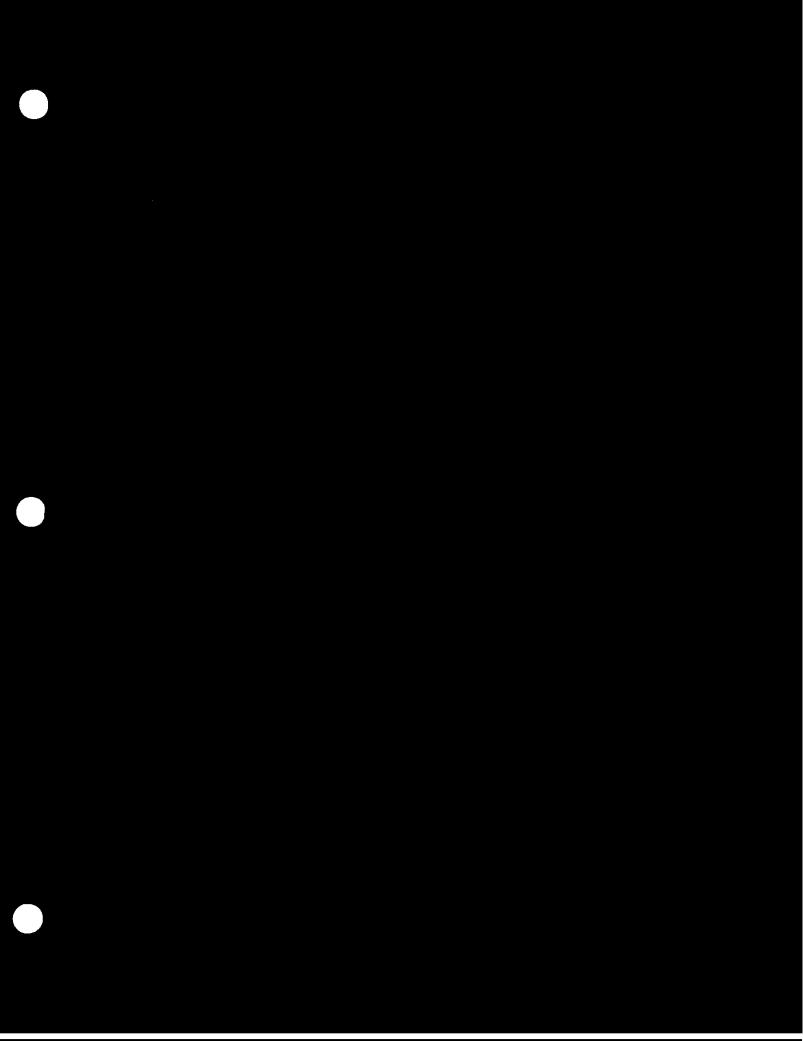
#### KLWTD FUTURE PROJECTS

- Complete Collection Systems north of the Wastewater Treatment Plant
- Complete the Vacuum Collection Systems in the vicinity of Vacuum Station at MM 100.5
- ► Complete the Transmission Line to southern portion of Key Largo Wastewater Treatment District and connect commercial customer §
- Complete the Collection Systems to the south of the Treatment Plant

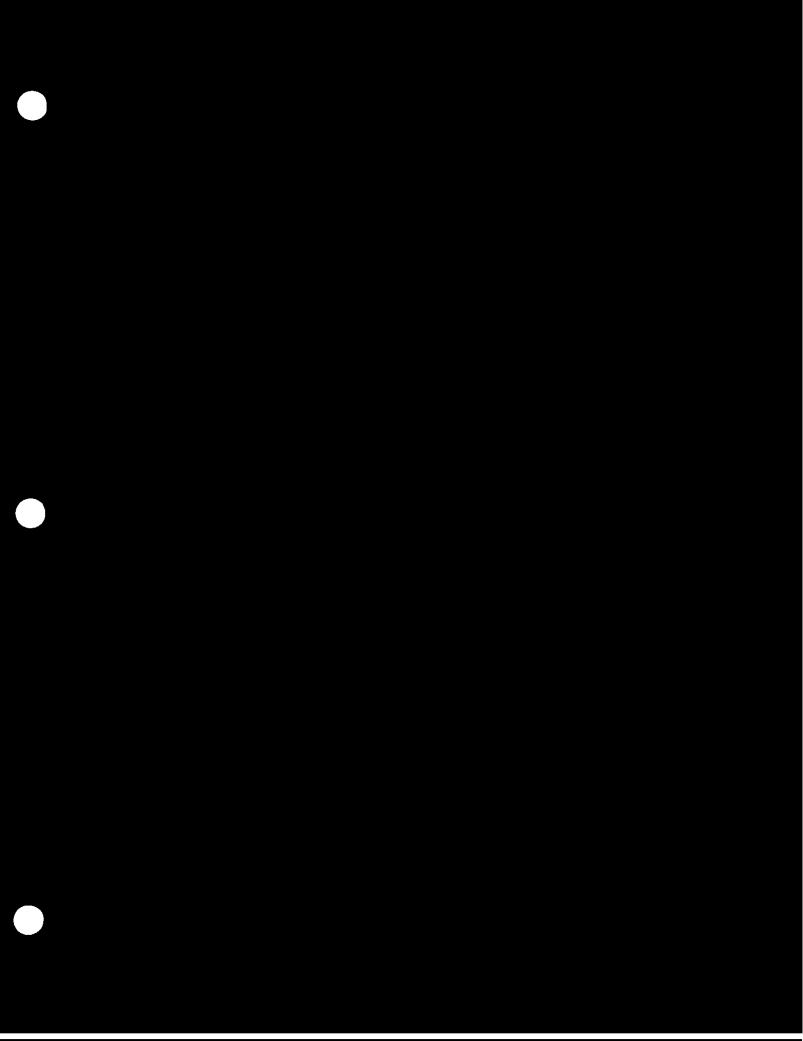
C.F.Fishburn KLWTD 9.30.05



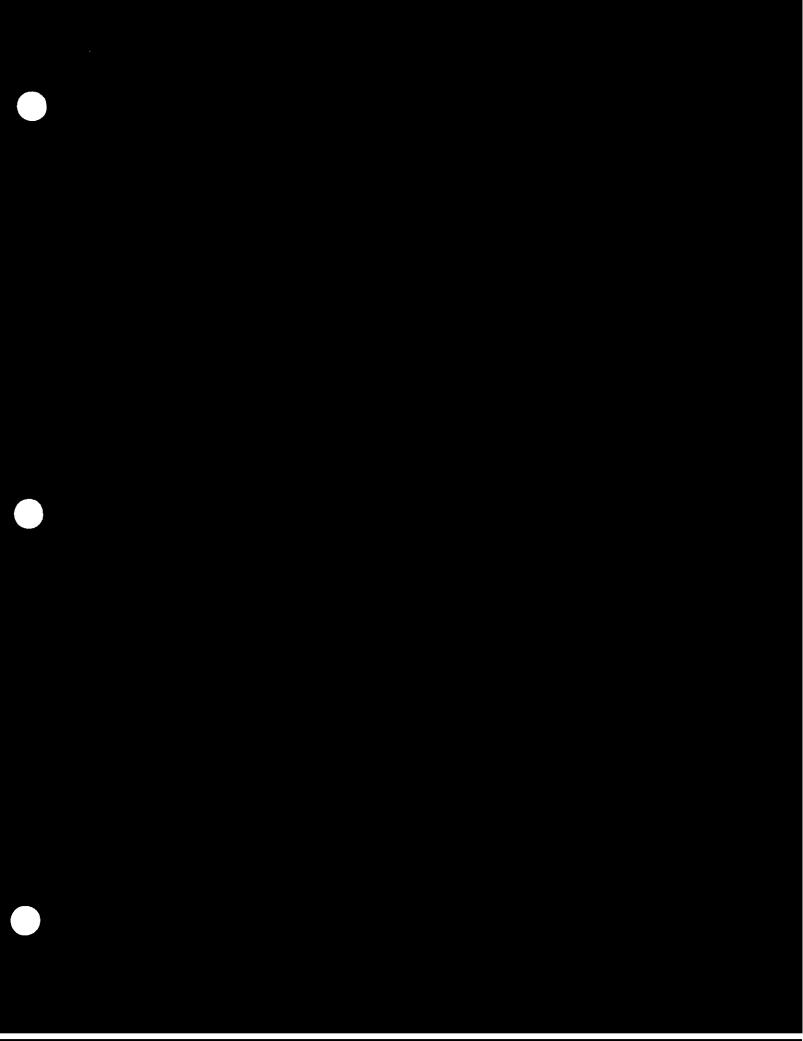
Meeting Date: O	ct. 5, 2005	Agenda	Item No. 🔾
[] PUBLIC HEARI	NG	[] R	ESOLUTION
[] DISCUSSION		[] B	ID/RFP AWARD
[X] GENERAL APP	ROVAL OF ITEM	[] C	ONSENT AGENDA
[] Other:			
SUBJECT: Pending P	ayments list for Oct. 5	, 2005	
RECOMMENDED MO  5, 2005 contingent upo  Approved by General  Date: 9-30-0	n available funds.  Manager	7 ~	e pending payments list for Oct
Originating Departme Finance	Costs: \$ Funding Source: Acct. #		Attachments: Will be provided at a latter date
Department Review: [] District Counsel [] General Manager [] Finance MW,	[] Engineering [] Clerk		Advertised: Date: Paper: [X] Not Required
	All parties that havin this agenda item notified of meeting time. The following be filled out to be o	must be date and j box must	Yes I have notified everyone or Not applicable in this case: Please initial one.
Summary Explanation/ Payments list on Monda	Background: The Di y Oct. 3, 2005.	strict Financ	e Officer will E-Mail the Pending
Resulting Board Action  Approved   Ta	<del></del>	approved	C Passamman dation Desired
<u></u>	그 기정	thbiosed	Recommendation Revised



Meeti	ng Date:	Oct. 5,	2005	Agenda	a Item No. 3
[]	PUBLIC HE	ARING		[]	RESOLUTION
[]	DISCUSSIO	N			BID/RFP AWARD
[X]	GENERAL A	APPROV	'AL OF ITEM	[]	CONSENT AGENDA
[]	Other:				
<u>SUBJ</u> Order	ECT: Sexton proposed by	Cove/La	ake Surprise, etc. C gineering	Collection	n System Engineering Work
RECC	MMENDED I	MOTION	/ACTION: Approva	I	
Appro Date:_	oved by Gene 9-30-0	eral Man	ager <u>O</u> J		
	nating Depar		Costs: Approximately	1\$519,0	vo⇔ Attachments:
Gene	ral Manager ( Fishburn	naries	Funding Source: Cou and SRF Acct.	inty Grant	
<b>₩</b> Distri	tment Review ct Counsel 72 eral Manager 2	2	Engineering E	C	Advertised: Date: Paper: [X] Not Required
			All parties that have a in this agenda item m notified of meeting da time. The following be filled out to be on a	ust be te and ox must	Yes I have notified everyone or Not applicable in this case:
engineer Estates/I this wor	ring services re Pamel Villa/W ck order with (	equired fo inston Wa CPH Eng	or the collection syste aterways/ Key Largo	m in Sex Campgro nds the s	has proposed a work order to provide aton Cove/Lake Surprise/Ocean Isle and. Staff has refined and reviewed scope of this proposal. The entire
Resulti	ng Board Ac		m n:		<b>5 D</b>
□ ΛPPr0V	cu l	⊐ Tabled	☐ Disapp	roved	☐ Recommendation Revised



Meeting Date: Oct	5, 2005	Agenda	Item No. 4
[] PUBLIC HEARIN	<b>3</b>	[] R	ESOLUTION
[] DISCUSSION		[] B	ID/RFP AWARD
[X] GENERAL APPR	OVAL OF ITEM	[] C	ONSENT AGENDA
[] Other:			
SUBJECT: Regional Tre	atment Plant Engine	ering Servi	ice Work Order
RECOMMENDED MOTI	ON/ACTION: Approve	al	
Approved by General N Date: 9-30-05	anager <u>G</u>	7, 4	
<b>Originating Departmen</b> General Manager Charle Fishburn		•	Attachments:
Department Review: District Counsel General Manager	XEngineering E	C	Advertised: Date: Paper: [X] Not Required
	All parties that have a in this agenda item motified of meeting datime. The following be filled out to be on	nust be ate and oox must	Yes I have notified everyone Or Not applicable in this case: Please initial one.
Regional Treatment Plant, Arcadis/MWH and recomme	and Deep Injection W	ells. Staf	ive proposed the engineering for the f has refined the proposal with cluded in the information package.
Resulting Board Action: Approved □ Table	d □ Disapr	proved	☐ Recommendation Revised



Meeti	ing Date:	Oct. 5, 2	2005	Agenda Item	No.5
[]	PUBLIC HEA	ARING		[]	RESOLUTION
[x]	DISCUSSIO	N		. []	BID/RFP AWARD
[]	GENERAL A	\PPROV/	AL OF ITEM	[]	CONSENT AGENDA
[]	Other:				
<u>SUBJ</u>	I <u>ECT:</u> Projects	s Status F	Report		
RECO	OMMENDED N	MOTION/	ACTION: N	No action requ	ired
			_	$\sim 2$	7
Appro	oved by Gene	eral Mana	ager <u>C</u>	<u> </u>	
Date:	nating Depart	tment:	Costs: \$ Funding Sour	rce:	Attachments: Will be provided at a latter date.
Origi W Depai	nating Depart/eiler Engineer  rtment Reviewrict Counsel eral Manage	rtment: ring	Costs: \$ Funding Sour	<u>, E</u> C	

<u>Summary Explanation/Background:</u> The District Engineer will review the status of the District's Capital Projects. Commissioners will receive the report by E-mail Monday Oct. 3, 2005.

Resulting	<b>Board</b>	Action:

 $\square$  Approved

□ Tabled

□ Disapproved

□ Recommendation Revised

To:

KLWTD Board

From: Carol Walker, CMC

CC:

Staff

Date:

October 5, 2005

Re:

TAB 2

The attached is the pending payments list for October 5, 2005 TAB 2

#### Key Largo Wastewater Treatment District

#### Payments Pending 10/05/05 Prepared 10/03/05

CONSOLIDATED CASH BALANCE FORWARD		\$ 629,404.94
Administration & Operations		
Administration & Operations  Cash Balance A&O Account Forward	\$ 96,194.70	
Plus: MSTU Draw #11	45,334.25	
Less: BellSouth - Rollover Lines & Office Line	110.28	
Sprint - Cell Phones	153.27	
PRMG - SRF Loan Appl. & Misc.	749.13	
GSG - Assessment Roll Development	450.00	
FMIT - Quarterly Insurance Premium	12,306.00	
Upchurch, W, W & M - Mediation Fee	2,433.33	
MC Court Reporters - Haskell Settlement Meeting	137.50	
Heidi Herzog - Clerk Vacation Coverage	277.50	
Toshiba - Copier Expense	468.79	
Chris Sante - Office Rent (October)	2,450.00	
Comcast - Cable Service	31.28	
Office Depot - MS Office (2@\$500),Printer (\$300), Misc. Nissan - Truck Lease	2,963.88	
Tom Dillon - Legal Services	219.00 1,281,50	
Premier Global Service - CPH Conference Calls (2)	93.86	
Federal Express - Deliveries	226.57	
VISA - Pipe Insp. Camera (\$6,500), Fuel, Misc.	7,819.17	
Paychex - September Fee	100.12	
FKEC - Office Electric (3 mos. "B" / 1 mo. "A")	619.00	
Sub-total Invoices	32,890.18	
		\$ 12,444.07
Cash Balance A&O Account if All Paid	\$ 108,638.77	
Memo: MSTU Draw #12 Submitted 9/7/05 \$65,288	·	
Key Largo Park		
Cash Balance KLP Account Forward	\$ (32,878.93)	
	(,,,	
Less: Weiler Engineering - September	3,022.29	(3,022.29)
Cash Balance KLP Account If All Paid  Memo: MC Cesspit Draw #1 Submitted 7/22/05 \$ 17,464	\$ (35,901.22)	(0,022.23)
Key Largo Trailer Village		
Cash Balance KLTV Account Forward	\$ (422,622.20)	
Less: Tom Dillon - Legal Services	6,788.00	
Weiler Engineering - September	5,656.78	
Haskell - August	367,282.77	
Sub-total Invoices	379,727.55	
•		(379,727.55)
Cash Balance KLTV Account If All Paid	\$ (802,349.75)	
Memo: FEMA Draw #8 Submitted 7/20/05 \$ 933,518		
DCA Cesspit Draw #1 Submitted 7/22/05 \$ 654,049		
FEMA Draw #9 (Final) Submitted 8/02/05 \$ 8,373		
North Key Largo Development	•	
Cash Balance KLNC Account Forward	988,711.37	
Less: Tom Dillon - Legal Services	994.00	
Weiler Engineering - September	2,583.15	
Train Lightoning Copionics.	#1000.10	(3,577.15)
Cash Balance KLNC Account If All Paid	985,134.22	(0,011110)
CONSOLIDATED CASH BALANCE IF ALL PAID		\$ 255,522.02
NOTE: A TOTAL OF \$ 1,678,692 REQUESTED FOR RE	IMBURSEMENT IS C	DUTSTANDING
Approved for payme		·

Charles Brooks, Chairman Andrew Tobin, Secretary

To:

KLWTD Board

From: Carol Walker, CMC

CC:

Staff

Date: October 5, 2005

Re:

TAB 2 and TAB 3

The attached is additional information for TAB 3 and TAB 4

Weller REQ SCPT, 2004

#### Commercial Connections Along US-1 Corridor

Includes hotels, RV parks, Trailer Parks, Marinas, Etc. that have existing WWTPs and collection system.

1383 EDUs (based on flow, where 167 GPD = 1 EDU)

 This represents the minimum number of EDUs. Actual number of EDUs will be larger, depending on definitions adopted by KLWTD Could be as much as double this number.

#### Summary

******	1.	
SBR	ENUTY	~ °/
\$17.6M 15,2	742,000	2 10
\$4.8 M	208,000	4.7%
\$6.8 M	579,0005	- 4,6%
\$4.5 M	239,00E	- 614%
\$1.8 M 31.3M	1.7m	5,4%
	\$17.6 M 157.2 \$4.8 M \$6.8 M \$4.5 M	\$17.6 M 15.7 742 000 \$4.8 M 208,000 \$6.8 M 579,000 \$4.5 M 239,000 E)

TOTAL: \$35.5 M

Note: A 15% (\$5 M) contingency fund on construction costs should be budgeted

To:

**KLWTD Board** 

From: Carol Walker, CMC

CC:

Staff

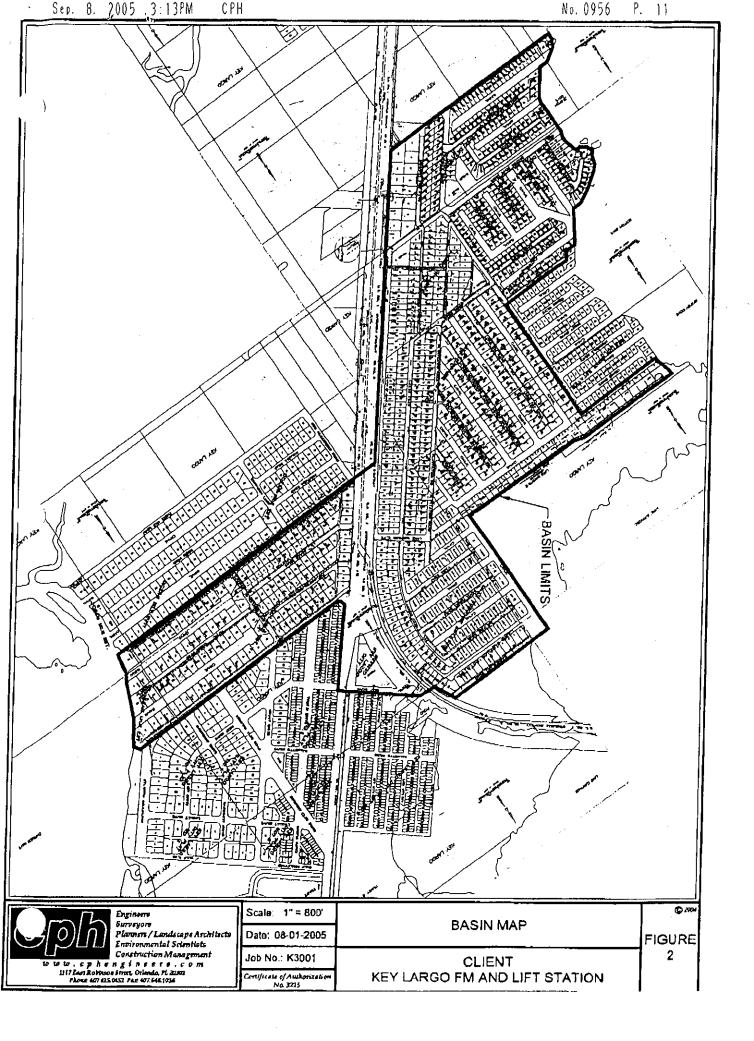
Date: October 5, 2005

Re:

TAB 3

The attached is the maps that are referred to in the Collection System Design Scope Section 1 - General on page 1 of the additional information for TAB 3 in your Info Package.





To: KLWTD Board

From: Carol Walker, CMC

CC: Staff

Date: October 5, 2005

Re: TAB 5

The attached is the status report from Weiler Engineering for TAB 5.



20020 Veterans Boulevard., Suite 7 Port Charlotte, FL 33954 (941) 764-6447 ph (941) 764-8915 fax

#### Key Largo Wastewater Treatment District Engineering Status Report Period Ending 09/30/05

#### Key Largo Park

Trenching continued in the Key Largo Park and vacuum main was placed on Lauderdale Drive. ADB brought in a sub, Pabone Engineering, to excavate and lay pipe.

The new style Airvac pits were received. Bill Mouldin, the Airvac field representative, arrived for his four week service period. Clint Hawn of Airvac also came down to observe the new style pits being installed. One was installed, but several failed the preplacement pressure test and a number of others failed visual inspection by the Airvac representatives. Installation of the new pits was put on hold while the problem is being investigated. Installation of the old style pits is being carried on.

#### **Key Largo Trailer Village**

Cleanup and restoration continued in September. The transition from the HDPE pipe used in the US 1 crossing to the PVC used throughout the rest of the project was accomplished and the run of three 10-inch pipes from US 1 into the vacuum tank at the WWTP site began.

#### **KLTV Treatment Plant**

Work at the treatment plant progressed with the piping in of the vacuum pump skid and other components of the vacuum pump station. Coatings were applied to the administration/motor control center building. The electrical and plumbing work progressed throughout the month.

Ted Hortenstine of Brown and Caldwell worked on the wastewater treatment plant Operation and Maintenance Manual in September. He has the Fluidyne and miscellaneous equipment information in hand and was expecting delivery of the Airvac manuals shortly. He is also contacting the Florida Rural Water Association to request a copy of their guidance document for preparation of Operation and Maintenance Manuals.

Submittals for coatings and miscellaneous deliverables were received in September. WEC pointed out the Brown and Caldwell that the anchors for the Fluidyne tanks needed to be designed for the combined wind and buoyancy loads rather than each one separately. As a result, the anchors are being beefed up. The new anchors will be galvanized as specified for the miscellaneous metals rather than epoxy coated as proposed.

#### Lake Surprise Project

1

Design of the north component force main progressed in September. Several conference calls were held with CPH staff, District staff and WEC staff. CPH continued the hydraulic modeling of the force main system. The 30% design of the force main was submitted at the end of September and is currently under review by WEC and District staff.

The CPH proposal for the design of the collection systems for the Lake Surprise basin and the Largo Gardens basin was revised and pricing was negotiated. An acceptable scope and price for the design of the tow collection basins was reached and is recommended for approval. The pricing for the survey was too high, and that pricing is still under negotiation.

Through several conferences with Arcadis, MWH, WEC and District staff, the scope of work for the design and permitting of the wastewater treatment plant achieved an acceptable degree of detail. Both specific technical assumptions and level of effort by the designers was submitted. The position of Arcadis/MWH has been that they can not accurately provide their pricing until further details of the work are designed. After consultations with all parties and with District Counsel, it was decided to change the form of the proposed work authorization to an hourly task with a not-to-exceed total. It was also agreed that after the conceptual design stage was completed, the not-to-exceed pricing would be revisited with the intent of looking for reductions in cost.

#### **Haskell Pay Applications**

Payment of Haskell Pay Application No. 23 was submitted in September, but a number of adjustments were needed. As a result, the application was not approved by WEC until the end of the month. Pay Application No. 23 is now complete and will be submitted on the Payments Pending list for the October 3<sup>rd</sup> Board meeting.

#### Regulatory Compliance Issues

The Environmental Resources Permit has been provided to WEC. With the exception of final certifications and approval for use, this should complete the permitting processes.

#### **Project Team Meetings and Actions**

1

Ed Castle attended the scheduled Board meetings on September 7<sup>th</sup> and 21<sup>st</sup>. He also met with KLWTD staff on those dates prior to the Board meetings. He also attended the construction progress meetings for Key Largo Park on and also attended the weekly District Staff meetings either in person or by telephone. He also attended design review conference calls with CPH and District staff.

Ed Castle and Dave Gile of WEC performed construction inspection throughout the period.

To:

KLWTD Board

From: Carol Walker, CMC

CC:

Staff

Date:

October 5, 2005

Re:

TAB 1

The attached additional information for TAB 1.

# KLWTD WASTEWATER PROJECTS

	HOT SPOTS	EDU'S	COST (MILLIONS)
KLTV & KLP Current Projects	4,27	1000	\$13
North Components include Regional Treatment Plant & Transmission Line	2, 19	2500	\$35-38
Complete Collection Systems north of the Wastewater Treatment Plant	7, 15, 29	3500	\$28-35
Complete the Vacuum Collection Systems in the vicinity of Vacuum Station at MM 100.5	11	300	\$3-4
Complete the Transmission Line to southern portion of Key Largo Wastewater Treatment District and connect commercial customers		2000	\$8-10
Complete the Collection Systems to the south of the Treatment Plant	5, 9, 20 21, 24	4000	\$35-40
TOTALS	2, 4, 7, 9, 12, 15, 17, 19, 20, 21, 24, 27, 29 Thirteen of 45 Hot Spots in Master Plan	13,300	\$122 - \$140

CFF 10/04/05

# MASTER MAN VOL. II

APPENDIX F EXHIBIT F-6 TavernieriKey Largo Regional Wastewater Management District Phasing

			L			Project Contribution	bution			-	dTWW.	-		Total Project Cost			0 0				
				ADF	WM	WWTP Design					Capacity		Collection	Collection Transmission & Treatment	Treatment	150	Vaccion Ctal	MANAGER		,	i
		Hot Spot		(mad)	Capac	Capacity (mod)	9	EDU O	Unknown Systems	Spins	(mod)				, 1 Call (1) L	- 4	uuill Stat	1	,	Š	Cost Per EDU
Service		Rank				, , , , , , , , , , , , , , , , , , ,	i		_	ł	Phase				Culling				Fotal		
Area		Within								-	Design	_	_		Costs				ta C	1000	Amount Rivership.
Phase	Project Description	Region	Project	Cumul	Project	Cumul	Project Cum	3	Project C	Cumul		Cumul	Project	Сиша	Annualized	Project	Cumul		ğ <u>©</u>	(5)	(\$/EDU)
-	Lake Surprise/Sexton Cove, Ocean Iste Estates, and area	-	0.123		0.165		858		389	389			\$11,000,000			40,000		ŧ			
~	Key Laron Trailer Village Laron	c	0 101		1810		0	-	CCU	000	-		0.00								
1	Gardens, Hibiscus Park, and area	u .	<u>v</u>		<u>.</u>		y 2		o o	,, ,,		-	000,075,014			40,000	_	<b>.</b>			
	adjacent of U.S. 1	]									-	_			_						
က	Cross Key Waterway Estates,	ю	0.104		0.140		775	-	285	1.194			000'002'6\$			40,000					
	Shores, south Creek Village, and					_				_		_			_						
	area adjacent to U.S. 1																				
ဖ	Remainder of PAED 19/20 -	7	0.314	0 662	0 050	0.810	1 722	4.259	292	1 486	-	-	\$9 778 000	\$40 74B		000	000 000				
	Stillwright Point, Paradise Point									}						3	000,07				
	Cove, Riviera Village, Key Largo												••			_					
	Mobile Home Sites, Largo City					_	_														
	Also includes the construction of the				_		_	•			. 50	150	216 867 000	CE7 615 000	000 000						
	first phase of the regional wastewater									•				000			:	30,000	000,828,68	\$1,39	\$116
	transmission and treatment facility			_	_	_	_										_				
7	Port Largo, Key Largo Beach, Key	80	0.188	0.85		0.98	1,210	5,469	191	1.677		1.50	\$11 100 000	568 715 000	SS 990 000	50.000	000 000	000	67 040 000		
	Largo Ocean Shores, Silver Lake				_	_	_						1			20,00	200.000	000,000	000'010'76	797 1	,nr.
	Park, Holiday Homesites, Buttonwood						_										_				
	Shores, Buttonwood Cove, Lazy		_				_	-	_			_				_					
	Lagoon, Point Pleasant Sunset Cove					_			_		_			_							
æ	Bahia Mar Estates, Pamela Villa,	10	0.042	0.692		1 02	314	5.783	63	1.740		50	53 500 000	\$72.214.000	\$6.296.000	2000	225 000	000	2000		1
	Winston Walerways	_				!				!				200		000.6	200,622	000,000	000,145,79	\$1,269	\$106
o	Pirate's Cove, Rock Harbor Estates,	=	0.138	203		1.18	.068	6,673	120	1,860		1 50	\$6,440,000	\$78,655,000	\$6.857.000	42 000	267 000	0000058	201 12 1000 120 13	200	6
	Marion Park, Rock Harbor Manor Harbor Shores, Eldorado												-				2		6	n - -	3
10	Bay Haven I imp Grove Fetalos	ci	0.20	000		20.1	202	470	- (	1	+		000								
?	Surrise Point, Abode Casa Court	ŭ	0.00			67	200	2	3	896.		000	27,290,000	\$85,945,000	\$7,493,000	46,000	313,000	880,000	\$8,686,000 \$1,210	\$1.210	\$101
	Seven Acres, Sunsel Gardens, Dove Creek				•		<u> </u>	_													
5A	Deactivate Harris Ocean Park	ď	0.083	1 171		1.35	661	7 830	212	2 201	 	Su -	000 000 43	000 545 000	000 040		0.00				
	Palma Sola, Sherrill Park,		}			3	_	2		9			200,000,000	000.646.484		90,00	353,000	000,000	\$9,495,000	\$1,211	\$101
_	Hammer Point Park Community												_				_				
	WWTP and connect into Regional	_						_		_						_		_			
	System¹				_		-							•			_				
П	Old Tavernier	14	0.148	1 319		1.52	1,187	9,026	110 2,	2,311 0.	0.75	2.25 \$1	\$11,950,000	\$106.495.000	\$9 284 000	43.000	396 000	000 900	000 505 013	24 176	800
	Sunset Waterways, Key Largo Park	15	0 088	1.376		1.58		9,393	40 2.	2,351,	L		1.	\$112,895,000	59.842.000	42,000	438,000		611 215 000	0 10	000
13	Bermuda Shores, Twin Lakes	16	0.040	1416		1.63	296	9,680	54.2	2,405			1	\$115 395 000	\$10,060,000	000	443,000		21112000 61113	41,194	n   0
4	Existing WWTPs	;	0.374	1 79 2		2.06 2	2,746 12,435	2,435.	2	2,405.			١	\$117,695,000	\$10.261.000	27 000	500,000		000,000	201	0 0 0
Commun	Community wastewater collection and treatment system will serve this Hot Spot area initially, until regional system becomes available to serve this area	ystem will s	serve this	Hot Spot are	ea initally.	until regional	system b	pcomes a	gilable to	serve this		İ			200		200'000	_	000 000 10	4664	n A

Community wastewater collection and treatment system will serve this Hot Spot are a intally, until regional system becomes available in Zslow contributions maintained at 1998 levels as the rate of implementation over the 20-year alpinning period is unknown. Wastewater (lows in this regional service area are projected to increase about 9.1/2% over the 20-year planning period 1998 - 2018. Thus, the 1.79 mgd ADF would be about 1.96 mgd in 2018, and the 1.99 mgd WWTP flow would be about 2.25 mgd in 2018.

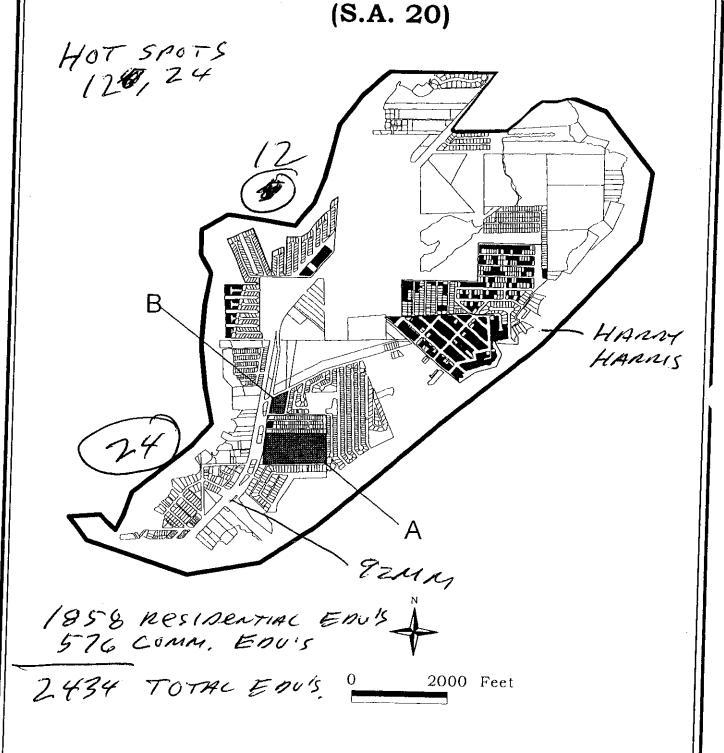
EXHIBIT 6-3 Hot Spot Areas and Rankings - Upper Keys

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Wastewater Service Area  Tavernier/Key Largo Regional	-	:				Rank for
PAED 18 Tavernier/Key Largo Region PAED 16 Tavernier/Key Largo Region PAED 15 PAED 15 Tavernier/Key Largo Regions PAED 15 PAED 17 Tavernier/Key Largo Regions PAED 16 Tavernier/Key Largo Regions PAED 16 Tavernier/Key Largo Regions PAED 16 Tavernier/Key Largo Regions PAED 15 PAED 15 Tavernier/Key Largo Regions PAED 16 Tavernier/Key Largo Regions PAED 18 Plantation Key Islamorada Regional Plantation Key Slamorada Regional Plantation Key Slamorada Regional Plantation Key Slamorada Regional	히꼬	Name PAED 19/20	Wastewater Service Area	Hot Spot Area Name	Area Rank by Begion	Entire
PAED 18  Tavernier/Key Largo Regional PAED 16  Tavernier/Key Largo Regional PAED 15  PAED 15  Tavernier/Key Largo Regional PAED 17  Tavernier/Key Largo Regional PAED 17  Tavernier/Key Largo Regional PAED 17  Tavernier/Key Largo Regional PAED 16  Tavernier/Key Largo Regional PAED 15  Tavernier/Key Largo Regional PAED 17  Tavernier/Key Largo Regional PaeD 17  Tavernier/Key Largo Regional PaeD 17  Tavernier/Key Largo Regional Pantation Key  Islamorada Regional Plantation Key  Islamorada Regional	ς.	PAED 18	Township Largo Regional	Lake Surprise/Sexton Cove, Ocean Isle Estates, and adjacent area on U.S. 1	169101	Se)
PAED 16 Tavernier/Key Largo Regional PAED 15 PAED 15 PAED 15 PAED 19 PAED 19 PAED 19/20 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional Tavernier/Key Largo Regional PAED 17 PAED 17 Tavernier/Key Largo Regional Tavernier/Key Largo Regional PAED 15 PAED 15 PAED 15 PAED 15 PAED 15 Tavernier/Key Largo Regional Tavernier/Key Largo Regional PAED 15 PAED 15 PAED 15 PAED 15 PAED 15 PAED 16 Tavernier/Key Largo Regional Tavernier/Key Largo Regional Paet 18 Plantation Key Islamorada Regional Islamorada Islamorada Islamorada Islamorad	? ?	PAED 18	lavernier/Key Largo Regional	Key Largo Trailer Village, Largo Gardens, Hibiscus Park, and area adjacent to U.S. 1	- 0	V -
PAED 16 Tavernier/Key Largo Regional PAED 15 Tavernier/Key Largo Regional PAED 19/20 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 18 Tavernier/Key Largo Regional PAED 16 Tavernier/Key Largo Regional PAED 15 Tavernier/Key Largo Regional PAED 15 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 18 Tavernier/Key Largo Regional PAED 18 Tavernier/Key Largo Regional PaeD 18 Iamorada Regional Islamorada Islam	,	0 0 0	lavernier/Key Largo Regional	Cross Key Waterway Estates & Largo Sound Park/Anglers Park Shores/South Creek	u a	1 1
PAED 15 Tavernier/Key Largo Regional PAED 19/20 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 15 Tavernier/Key Largo Regional PAED 15 Tavernier/Key Largo Regional PAED 15 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional RAED 18 Plantation Key Islamorada Regional	Ξ.	PAED 16	Tavernier/Key Largo Begional	Village and area along U.S. 1	מ	`
PAED 19/20  PAED 19/20  Tavernier/Key Largo Regions PAED 17  Tavernier/Key Largo Regions PAED 17  Tavernier/Key Largo Regions PAED 17  Tavernier/Key Largo Regions Tavernier/Key Largo Regions PAED 15  Tavernier/Key Largo Regions Upper Matecumbe Slamorada Regional PAED 17  Tavernier/Key Largo Regions PAED 15  Tavernier/Key Largo Regions PAED 17  Tavernier/Key Largo Regions RAED 17  Tavernier/Key Largo Regions PAED 17  Tavernier/Key Largo Regions PAED 18  Plantation Key  Slamorada Regional	0	PAED 15	Tavernier/Key Laron Boolons	Louis One of the live of the l	4	6
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PAED 17  Lower Matecumbe PAED 17  Tavernier/Key Largo Regions PAED 18  PAED 17  Tavernier/Key Largo Regions PAED 16  Tavernier/Key Largo Regions Upper Matecumbe Slamorada Regional PAED 17  Tavernier/Key Largo Regions PAED 18  Plantation Key  Islamorada Regional	5	, 00,01		Area A - Eastern end of Plantation Key including Plantation Key Colony/Kahiki Harbor/ Edernaire/ Tavernaero/ Tropical Atlantic Shores	ဖ	4
PAED 17  Tavernier/Key Largo Regions PAED 18  PAED 17  Tavernier/Key Largo Regions Tavernier/Key Largo Regions Upper Matecumbe PAED 15  PAED 15  PAED 17  Tavernier/Key Largo Regions PAED 18  Plantation Key Islamorada Regional	ţ	19/20	lavernier/Key Largo Regional	Remainder of PAED 19/20 - Stillwright Point/Paradise Point Cove, Riviera Village	7	ti T
Lower Matecumbe PAED 18 PAED 17 Tavernier/Key Largo Regions PAED 16 Tavernier/Key Largo Regions Upper Matecumbe Slamorada Regional PAED 17 Tavernier/Key Largo Regions Plantation Key Islamorada Regional	Ø	PAED 17	Tavernier/Key Largo Regional	Ney Largo Mobile Home Sites, Largo City Port Largo, Key Largo Beach, Key Largo Ocean Shores, Silver Lake Park, Holiday Homesites, Buttonwood Shores, Buttonwood Cover Land 2000	~ 00	5 4
PAED 18 Tavernier/Key Largo Regions PAED 17 Tavernier/Key Largo Regions Upper Matecumbe Islamorada Regional PAED 15 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional Plantation Key Islamorada Regional	ထ	Lower Matecumbe		Sunset Cove		
PAED 18 Tavemier/Key Largo Regions PAED 17 Tavemier/Key Largo Regions Upper Matecumbe Islamorada Regional PAED 15 Tavemier/Key Largo Regions PAED 17 Tavemier/Key Largo Regions PAED 17 Tavemier/Key Largo Regions PAED 18 Tavemier/Key Largo Regions Plantation Key Islamorada Regional				Safety Harbor, Toll Gate Shore, Port Antigua, White Marlin Beach, Matecumbe Sandy	თ	ď
PAED 17 Tavernier/Key Largo Regiona Upper Matecumbe Islamorada Regional PAED 15 PAED 17 Tavernier/Key Largo Regiona PAED 17 Tavernier/Key Largo Regiona PAED 18 Tavernier/Key Largo Regiona Plantation Key Islamorada Regional	ത	PAED 18	Tavernier/Key Largo Regional	Bahia Mar Estates/Pamela Villa/Winston Watsonson		2
PAED 16 Tavernier/Key Largo Regional Upper Matecumbe Islamorada Regional PAED 15 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 18 Tavernier/Key Largo Regional Plantation Key Islamorada Regional	CΙ	PAED 17	Tavernier/Key Largo Regional	Pirate's Cove Book Harbor Estatos Marios Badillo Badillo	10	19
Upper Matecumbe Islamorada Regional PAED 15 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 18 Tavernier/Key Largo Regional Plantation Key Islamorada Regional	_	DAED 16		Shores, El Dorado	;-	20
Upper Matecumbe Islamorada Regional PAED 15 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 18 Tavernier/Key Largo Regional Plantation Key Islamorada Regional Isla	_	5	iavemier/Key Largo Regional	Bay Haven, Lime Grove Estates, Sunrise Point, Abode Casa Court, Seven Acres,	12	7
PAED 15 Tavernier/Key Largo Regional PAED 17 Tavernier/Key Largo Regional PAED 18 Tavernier/Key Largo Regional Plantation Key Islamorada Regional Windley Key Islamorada Regional Plantation Key Islamorada Regional Plantation Key Islamorada Regional Plantation Key Islamorada Regional	_	Upper Matecumbe	Islamorada Regional	Curiset Cardens, Dove Creek Entire Study Area	ı	J
PAED 17 Tavernier/Key Largo Regional Su-PAED 18 Tavernier/Key Largo Regional Be Plantation Key Islamorada Regional Ve Windley Key Islamorada Regional En Plantation Key Islamorada Regional Tre Plantation Key Islamorada Regional Ind Plantation Key Islamorada Regional Ind Vili Plantation Key Islamorada Regional Ind Vili Plantation Key Islamorada Regional Re	_	PAED 15	Tavernier/Key Largo Regional	Old Tavarnier	13	22
PAED 18 Tavernier/Key Largo Regional Be Plantation Key Islamorada Regional Ve Windley Key Islamorada Regional Tra Plantation Key Islamorada Regional Ind Plantation Key Islamorada Regional Ind Plantation Key Islamorada Regional Ind VII	O.	PAED 17	Tavernier/Key Largo Regional	Support Waterwaye Koyl 2000	4	24
Plantation Key Islamorada Regional Ve Windley Key Islamorada Regional En Plantation Key Islamorada Regional Ind Plantation Key Islamorada Regional Ind Vili Plantation Key Islamorada Regional Nili Re	~	PAED 18	Tavernier/Key Largo Regional	Bermida Spares Twin John	15	27
Windley Key slamorada Regional En Plantation Key Islamorada Regional Tre Plantation Key Islamorada Regional VIII Plantation Key Islamorada Regional Re	•	Plantation Key	Islamorada Regional	Venetian Shows	91	59
Plantation Key Islamorada Regional Tre Plantation Key Islamorada Regional VIII VIII Plantation Key Islamorada Regional Re	~	Windley Key	Islamorada Regional	Folice Shirty Area	17	30
Plantation Key Islamorada Regional Ind Vil Plantation Key Islamorada Regional Re	•	Plantation Key	Islamorada Regional	Treasure Harbor Distantion Distantion Co. 100	85	35
Vil Plantation Key Islamorada Regional Re	σ.	Plantation Key	Islamorada Regional	Indian Waterways, Indian Harbor Diantation Konstruction K	19	33
	•	Plantation Key	Islamorada Regional	Village, Aergood Heights, Pearl City Remainder of Plantation Key.	50	37
				Apy Topper	21	38



#### **Potential WWTP Sites Tavernier** PAED 15



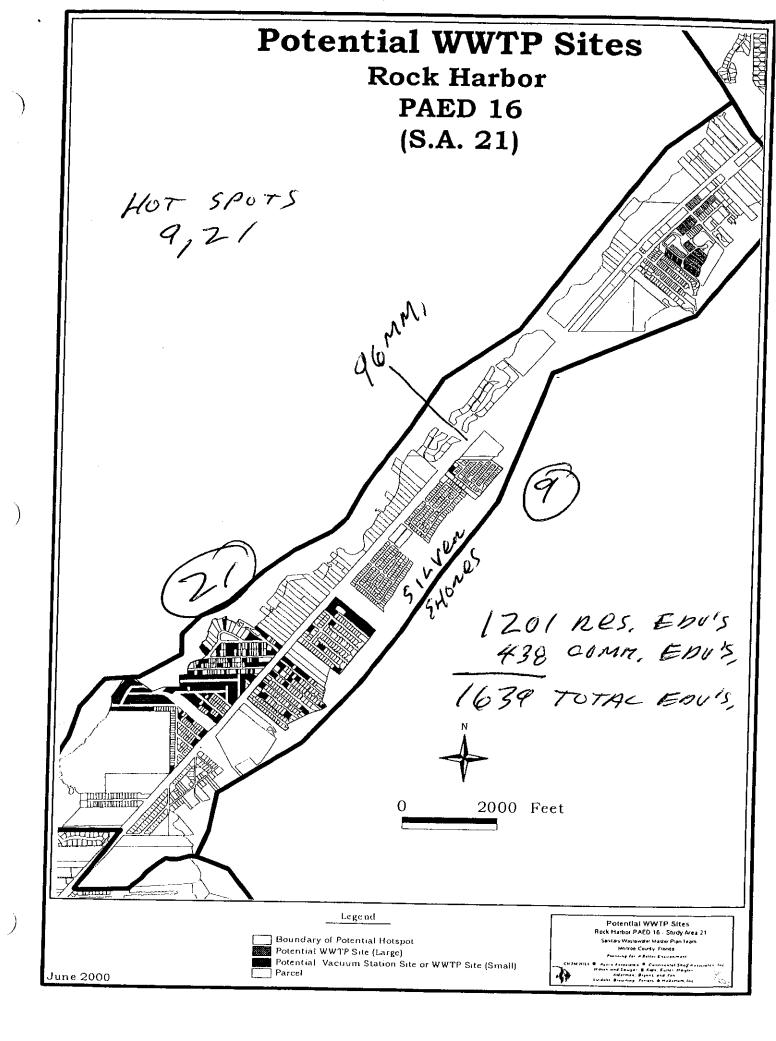
Legend

Boundary of Potential Hotspot Potential WWTP Site (Large)

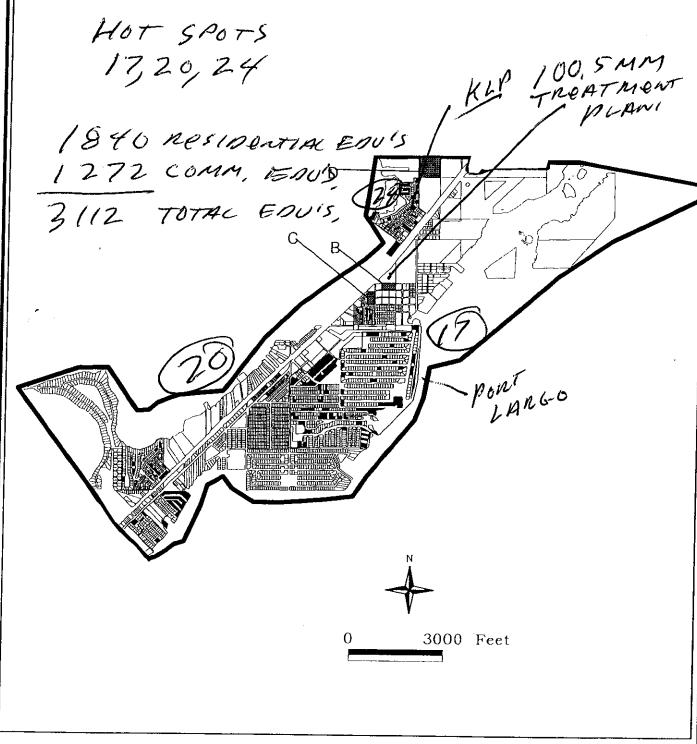
Potential Vacuum Station Site or WWTP Site (Small) Parcel

Potential WWTP Sites
Tavemier PAED 15 - Study Area 20
Saniary Wastewner Master Pian Team
Morroe Courty, Florida
Floring For A Rette Englanders

Apro Azetomas II. Canimonios Shelf A.
Hezon and Saingar & Kait, Surar, Haughe,
Arthurman Begant, and Ian
Lindahe Browning Farrar, & Hesseron, inc.



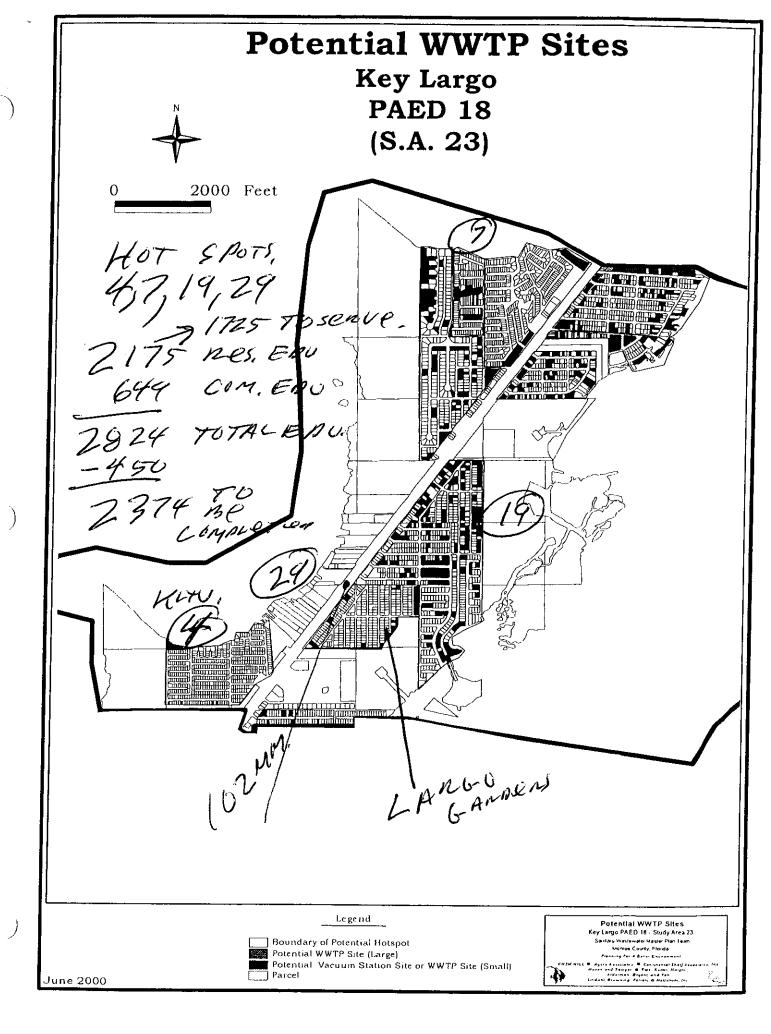
### Potential WWTP Sites Key Largo PAED 17 (S.A. 22)

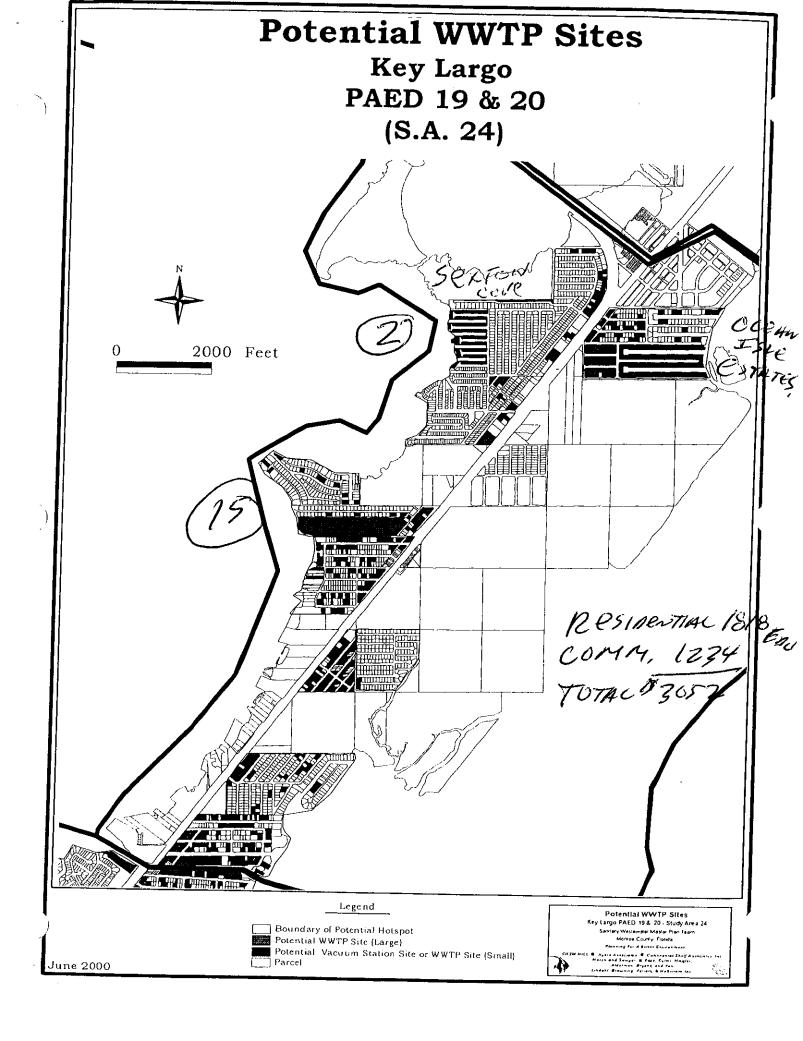


Legend

Boundary of Potential Hotspot
Potential WWTP Site (Large)
Potential Vacuum Station Site or WWTP Site (Small)
Parcel

Potential WWTP Sites
Key Largo PAED 17 - Study Area 22
Santary Wastender Master Plan Toam
Marcos Courty: Florida
Flanning Far A Battle Environment
Patrick Report & Battle Environment
Hatte Report Section Court, Naylor,
Addresse, Report & Karr, Court, Naylor,
Addresse, Report and Zon





MASTER PLAN, VOL. II

APPENDIX E EXHIBIT E-2

	ations of Study Areas Signifi dy Area Combinations	Wastewater System Design Flow		Weighted Study Area Monthly Cost per EDU	Cost Sav		
1	Names	(mgd)	(\$/EDU/Mo)	(\$/EDU/Mo)(1)	Yes/No (2)		Remarks
1,2	Stock Island, Boca Chica	0.90	127	85	No	+69	Telliuent disposal by shallow injection wells for both individual study areas and combination of study areas. If effluent disposat were by deep injection wells to combination of study areas, combination cost would increase by \$14/EDU/Mo, or 49 percent greater than weighted monthly cost.
2, 3	Boca Chica, Bay Point	0.41	118	101	No	+17	
3, 4	Bay Point, Lower Sugarloaf	0.22	133	121	No	+10	
1, 2, 3 4, 5, 6 7		1.27	147	100	No	+47	Effluent disposal by shallow injection wells for individual study areas. For combinations Florida Statute requires effluent disposal by deep injection wells Deep injection wells increase annual costs by \$438,000, or about \$5/EDU/Mo.
3, 4, 5, 6, 7	Bay Point, Lower Sugarloaf, Upper Sugarloaf, Cudjoe, Summerfand	0.71	119	110	No	i l	Effluent disposal by shallow injection wells for both individual study areas and combination of study areas. If effluent disposal were by deep injection wells fo combination of study areas, combination cost would increase by \$11/EDU/Mo, or 18 percent greater than weighted monthly cost.
5, 6, 7	Upper Sugarloaf, Cudjoe, Summerland	0.49	112	107	No	+5	
5, 6	Upper Sugarloal, Cudjoe	0.33	102	102	-	0	-
6, 7	Cudjoe, Summerland	0.41	105	102	No	+3	
9, 10,	Ramrod, Lille Torch, Big Pine	0.81	112	115	Yes	:	Elfluent disposal by shallow injection wells for both individual study areas and combination of study areas. If effluent disposal were by deep injection wells for combination of study areas, combination cost would increase by \$10/EDU/Mo, or 9 percent greater than weighted monthly cost.
9, 10	Ramrod, Little Torch	0.22	137	131	No	+4	
• • • •	Lille Torch, Big Pine	0.72	108	112	Yes	-3 8	Effluent disposal by shallow injection wells for both individual study areas and combination of study areas. If effluent disposal were by deep injection wells to combination of study areas, combination cost would increase by \$11/EDU/Mo, or 10 percent greater than weighted monthly cost.
16, 17, 18, 19	Lower Matecumbe, Upper Matecumbe, Windley, Plantation	1,49	80	79	No	ir M	Vastewater treatment plant within service area. Effluent disposat by shallow rijection wells for individual study areas. For combinations Flonda Statute equires effluent disposal by deep injection wells. Deep injection wells norease annual costs by \$438,000, or about \$4/EDU/Mo.
	Upper Matecumbe, Windley, Plantation	1.29	SLAN	74	Yes	Le In	Vastewater freatment plant within service area. Effluent disposal by shallow specifion wells for individual study areas. For combinations Florida Statute equires effluent disposal by deep injection wells. Deep injection wells acrease annual costs by \$438,000, or about \$5/EDU/Mo.
22, 23,	Tavernier (PAED 15), Rock Harbor (PAED 16), PAED 17, PAED 18, PAED 19/20	2.06	SEANS 10 LAN	79	Yes	in re	Vaslewaler Treatment Plant within service area. Effluent disposal by shallow election wells for individual study areas. For combinations Florida Statute equires effluent disposal by deep injection wells. Deep injection wells crease annual costs by \$438,000, or about \$3/EDU/Mo.
22, 23, 24	Tavernier (PAED 15), Rock Harbor (PAED 16), PAED 17, PAED 18, PAED 19/20	2.06	85	79	No	+8 W	/astewater transmitted out of Keys to Miami-Oade
22, 23, 24, 27	Tavernier (PAED 15), Rock Harbor (PAED 16), PAED 17, PAED 18, PAED 19/20, Ocean Reef Club	2 38	112	79	No	te in	/aslewaler transmitted to Ocean Reef Club. Effluent disposal by shallow pection wells for individual study areas. For combinations Florida Statute quires effluent disposal by deep injection wells. Deep injection wells crease annual costs by \$438,000, or about \$2/EDU/Mo.
19, 20, 21, 22, 23, 24	Upper Matecumbe, Windley, Plantation, Tavemier (PAED 15), Rook Harbor PAED 16), PAED 17, PAED 18, PAED 19/20	3.35	MBire	77	Yes	inj re	astewater Treatment Plant within service area. Effluent disposal by shallow ection wells for individual study areas. For combinations Florida Statute quires effluent disposal by deep injection wells crease annual costs by \$468,000, or about \$2/EDU/Mo.

<sup>(1)</sup> Weighted study area monthly cost per EDU is calculated as the sum of products of the monthly cost per EDU for the study area times the EDUs for the study area, divided by the sum of the EDUs for all study areas being combined.

<sup>(2)</sup> For purposes of comparing alternatives, costs are considered significantly different if they differ by more than 10 percent. If costs are within 10 percent, they are considered the same.

<sup>(3) (-)</sup> denotes savings by combining (+) denotes additional cost by combining

To:

KLWTD Board

From:

Carol Walker, CMC

CC:

Staff

Date:

October 5, 2005

Re:

TAB 2

The attached is the pending payments list for October 5, 2005 TAB 2

#### Key Largo Wastewater Treatment District

#### Payments Pending 10/05/05 Prepared 10/03/05

CONSOLIDATED CASH BALANCE FORWARD		•	629,404.94
Administration & Operations			
Cash Balance A&O Account Forward	\$ 96,194.70		
Plus: MSTU Draw #11	45,334.25		
Less: BellSouth - Rollover Lines & Office Line	110.28		
Sprint - Cell Phones	153.27		
PRMG - SRF Loan Appl. & Misc.	749.13		
GSG - Assessment Roll Development	450.00		
FMIT - Quarterly Insurance Premium	12,306.00		
Upchurch, W, W & M - Mediation Fee	2,433.33		
MC Court Reporters - Haskell Settlement Meeting	137.50		
Heidi Herzog - Clerk Vacation Coverage	277.50		
Toshiba - Copier Expense	468.79		
Chris Sante - Office Rent (October)	2,450.00		
Comcast - Cable Service	31.28		
Office Depot - MS Office (2@\$500), Printer (\$300), Misc.	2,963.88		
Nissan - Truck Lease	219.00		
Tom Dillon - Legal Services	1,281.50		
Premier Global Service - CPH Conference Calls (2)	93.86		
Federal Express - Deliveries	226.57		
VISA - Pipe Insp. Camera (\$6,500), Fuel, Misc.	7 <b>,8</b> 19. <b>1</b> 7		
Paychex - September Fee	100.12		
FKEC - Office Electric (3 mos. "B" / 1 mo. "A")	619.00		
Sub-total Invoices	32,890.18		
		\$	12,444.07
Cash Balance A&O Account If All Paid	\$ 108,638.77		
Memo: MSTU Draw #12 Submitted 9/7/05 \$65,288			
<u> Key Largo Park</u>			
Cash Balance KLP Account Forward	\$ (32,878.93)		
Less: Weiler Engineering - September	2 022 20		
contains any contained	3,022.29		(3,022.29)
Cash Balance KLP Account If All Paid  Memo: MC Cesspit Draw #1 Submitted 7/22/05 \$ 17,464	\$ (35,901.22)		
<u> Cey Largo Trailer Village</u>			
Cash Balance KLTV Account Forward	\$ (422,622.20)		
Less: Tom Dillon - Legal Services	6,788.00		
Weiler Engineering - September	5,656.78		
Haskell - August	367,282.77		
Sub-total Invoices	379,727.55		
	070,727.00		/270 727 EEL
Cash Balance KLTV Account if All Paid	\$ (802,349.75)		(379,727.55)
Memo: FEMA Draw #8 Submitted 7/20/05 \$ 933,518	Ψ (002,343.75)		
DCA Cesspit Draw #1 Submitted 7/22/05 \$ 654,049			
FEMA Draw #9 (Final) Submitted 8/02/05 \$ 8,373			
orth Key Largo Development			
Cash Balance KLNC Account Forward	988,711.37		
Less: Tom Dillon - Legal Services	004.00		
Weiler Engineering - September	994.00		
Asset Fullineound - September	2,583.15		(0.000.40)
Cash Balance KLNC Account If All Paid	985,134.22		(3,577.15)
ONSOLIDATED CASH BALANCE IF ALL PAID		\$	255,522.02
•			TANDING

Charles Brooks, Chairman

Andrew Tobin, Secretary

Phone: 305-453-5804 Fax: 305-453-5807

### Memo

To:

KLWTD Board

From: Carol Walker, CMC

CC:

Staff

Date:

October 5, 2005

Re:

TAB 2 and TAB 3

The attached is additional information for TAB 3 and TAB 4

Weller REQ SOPT, 2004

# Commercial Connections Along US-1 Corridor

Includes hotels, RV parks, Trailer Parks, Marinas, Etc. that have existing WWTPs and collection system.

1383 EDUs (based on flow, where 167 GPD = 1 EDU)

 This represents the minimum number of EDUs. Actual number of EDUs will be larger, depending on definitions adopted by KLWTD Could be as much as double this number.

### Summary

	SBR	ENUTER	_ 0,
<ul> <li>WWTP site costs -</li> </ul>	\$17.6 M 1572	742 000	3 10
Force Main costs -	\$48M	208,000	4.3%
<ul> <li>Lake Surprise area -</li> </ul>	\$6.8 M	579,000E)	- 4,6%
<ul> <li>Largo Gardens area -</li> </ul>	\$45 M	230,00E	614%
<ul> <li>Design &amp; Permitting -</li> </ul>	\$18M 31.3M	1,7M	5,4%

TOTAL: \$35.5 M

Note: A 15% (\$5 M) contingency fund on construction costs should be budgeted

## Memo

To:

KLWTD Board

From: Carol Walker, CMC

CC:

Staff

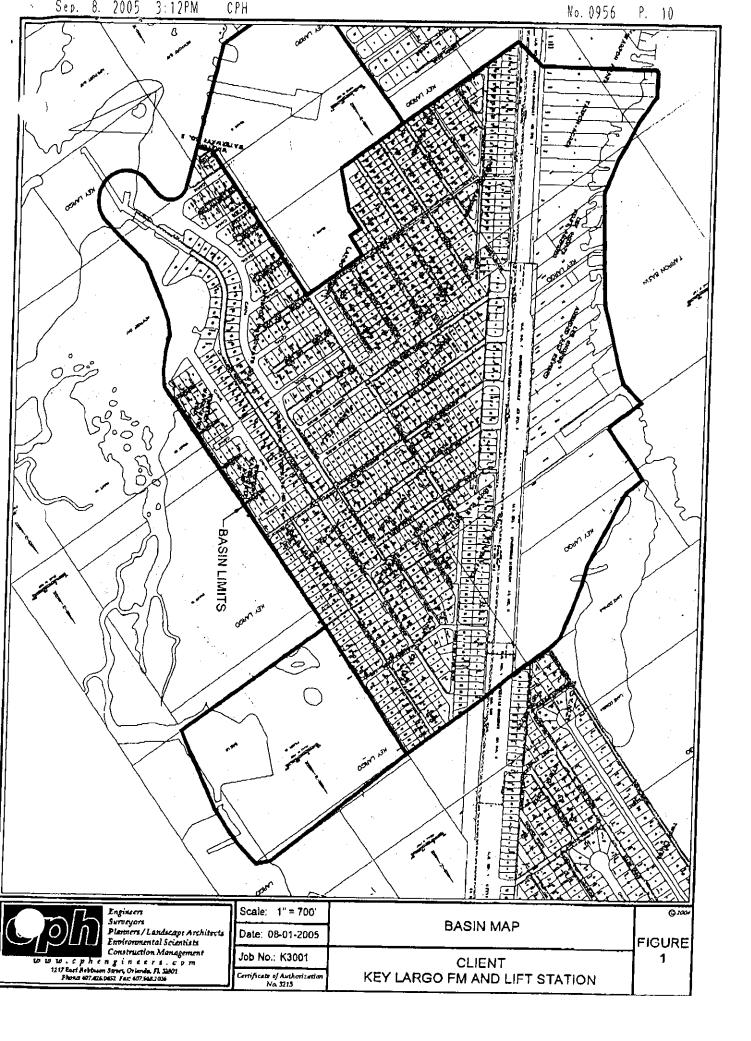
Date:

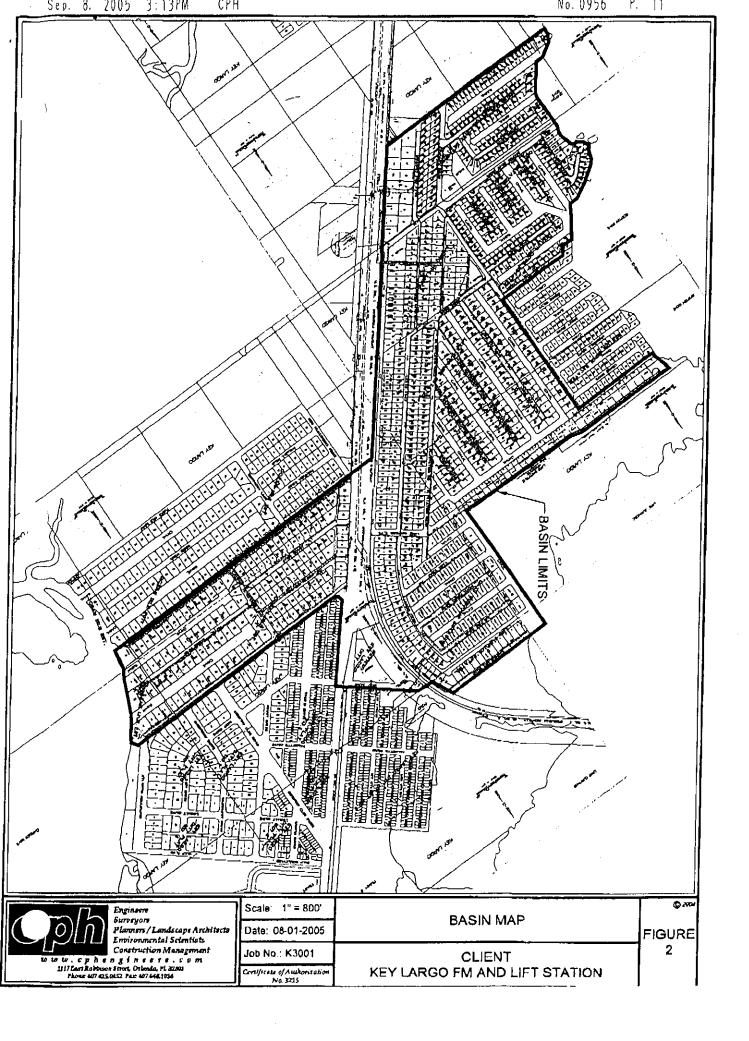
October 5, 2005

Re:

TAB 3

The attached is the maps that are referred to in the Collection System Design Scope Section 1 - General on page 1 of the additional information for TAB 3 in your Info Package.





### Memo

To:

KLWTD Board

From: Carol Walker, CMC

CC:

Staff

Date:

October 5, 2005

Re:

TAB 4

Please see attached additional information for TAB 4.

the services provided; if the services consist of a meeting or phone call, the names of the other participants; the time spent, rounded up to the nearest 0.1 hour. The District shall review and pay all invoices in accordance with applicable provisions of the Florida Prompt Payment Act (Section 218.70, et seq. Fla. Stat.).

5. Arcadis certifies that wage rates and other factual unit costs supporting the rates in Proposal Schedule B – Attachment C are accurate, complete, and current as of the date of the Proposal. The original contract price and any additions thereto will be adjusted to exclude any significant sums by which the District determines the contract price was increased due to inaccurate, incomplete, or noncurrent wage rates and other factual unit costs. All such contract adjustments must be made within 1 year following the end of the project.

IN WITNESS WHEREOF, the parties have executed this Work Authorization No. 1 on the dates opposite their names.

Arcadis G&M, Inc.

By:			Date:
Name	:		
Its:			
	Key Largo Wastewater Treatment I	District	
By:			Date:
	Charles Brooks Chairman		
Name:	Andrew Tobin Secretary		
Attest			District Counsel Endorsement
	Carol Walker District Clerk	Name:	Thomas M. Dillon District Counsel
II.	DISTRICT CITIE	115.	District Counsel

the services provided; if the services consist of a meeting or phone call, the names of the other participants; the time spent, rounded up to the nearest 0.1 hour. The District shall review and pay all invoices in accordance with applicable provisions of the Florida Prompt Payment Act (Section 218.70, et seq. Fla. Stat.).

5. ARCADIS certifies that wage rates and other factual unit costs supporting the rates in Proposal Schedule B – Attachment C are accurate, complete, and current as of the date of the Proposal. The original contract price and any additions thereto will be adjusted to exclude any significant sums by which the District determines the contract price was increased due to inaccurate, incomplete, or noncurrent wage rates and other factual unit costs. All such contract adjustments must be made within 1 year following the end of the project.

IN WITNESS WHEREOF, the parties have executed this Work Authorization No. 1 on the dates opposite their names.

Name: William H. Lynch, PE Its: Vice President Key Largo Wastewater Treatment District By: Date: Name: Charles Brooks Its: Chairman By: Name: Andrew Tobin Its: Secretary Attest District Counsel Endorsement By: By: Name: Carol Walker Name: Thomas M. Dillon Its: District Clerk Its: District Counsel

ARCADIS G&M. Inc.

#### **WORK AUTHORIZATION NUMBER 1**

#### Under

#### Key Largo Wastewater Treatment District Consulting Agreement

#### With

#### ARCADIS G&M, Inc.

THIS WORK AUTHORIZATION NUMBER 1 is issued under and pursuant to that certain consulting agreement by and between the Key Largo Wastewater Treatment District ("District") and ARCADIS G&M, Inc. ("ARCADIS"), dated December 9, 2003.

WHEREAS, the District and ARCADIS entered into a master consulting agreement dated December 9, 2003 ("Consulting Agreement"), and

WHEREAS, in accordance with the Consultants' Competitive Negotiation Act, Section 287.055, Fla. Stat. ("CCNA"), the District in 2005 issued requests for Statements of Qualifications of interested consultants with respect to the design of a new wastewater treatment plant and associated facilities ("the Project"), and

WHEREAS, after consideration of the statements of qualifications received from interested consultants, the District selected ARCADIS as the highest ranked firm for the Project, and

WHEREAS, the District and ARCADIS have negotiated a contract at compensation that the District believes to be fair, competitive, and reasonable after analysis of the cost of the professional services required as well as their scope and complexity;

NOW THEREFORE, in consideration of the premises and in further consideration of the promises below, the District does hereby authorize ARCADIS to proceed with the work described in the attached proposal, dated September 30, 2005 ("Proposal"), subject to the following terms and conditions:

- 1. The work shall be conducted under and in accordance with the consulting agreement dated December 9, 2003, as the same has been amended, except as expressly provided herein.
- 2. The basis of compensation for the work shall be the unit rates provided in the Proposal Schedule B Attachment C, subject to a not-to-exceed amount of \$742,400.00 for the Project. The parties acknowledge and agree that the amounts of time shown for various tasks and subtasks in Proposal Schedule B Attachment C, are estimates, only, and that actual time spent on the various tasks and subtasks will likely vary from the amounts shown. However, in no event will that total compensation to ARCADIS exceed \$742,400 without the District's prior written authorization.
- 3. To the extent that any provision of the Consulting Agreement is inconsistent with this Work Authorization, such provision shall not apply to this Project. Without limiting the generality of the foregoing, to the extent that Schedule B to the Consulting Agreement provides or implies that any work performed by ARCADIS shall be compensated on a lump sum basis, said Schedule B shall not apply to this Project.
- 4. ARCADIS shall invoice the District on a monthly basis for work performed during the preceding month. All invoices will be supported by narrative time sheets listing, with respect to each block of time: the name of the person providing the services; a brief description of

#### **WORK AUTHORIZATION NUMBER 1**

#### Under

#### Key Largo Wastewater Treatment District Consulting Agreement

#### With

#### Arcadis G&M, Inc.

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WHEREAS, in accordance with the Consultants' Competitive Negotiation Act, Section 287.055, Fla. Stat. ("CCNA"), the District in 2005 issued requests for Statements of Qualifications of interested consultants with respect to the design of a new wastewater treatment plant and associated facilities ("the Project"), and

WHEREAS, after consideration of the statements of qualifications received from interested consultants, the District selected Arcadis as the highest ranked firm for the Project, and

WHEREAS, the District and Arcadis have negotiated a contract at compensation that the District believes to be fair, competitive, and reasonable after analysis of the cost of the professional services required as well as their scope and complexity;

NOW THEREFORE, in consideration of the premises and in further consideration of the promises below, the District does hereby authorize Arcadis to proceed with the work described in the attached proposal, dated September 30, 2005 ("Proposal"), subject to the following terms and conditions:

- 1. The work shall be conducted under and in accordance with the consulting agreement dated December 9, 2003, as the same has been amended, except as expressly provided herein.
- 2. The basis of compensation for the work shall be the unit rates provided in the Proposal Schedule B Attachment C, subject to a not-to-exceed amount of \$742,400.00 for the Project. The parties acknowledge and agree that the amounts of time shown for various tasks and subtasks in Proposal Schedule B Attachment C, are estimates, only, and that actual time spent on the various tasks and subtasks will likely vary from the amounts shown. However, in no event will that total compensation to Arcadis exceed \$742,200 without the District's prior written authorization.
- 3. To the extent that any provision of the Consulting Agreement is inconsistent with this Work Authorization, such provision shall not apply to this Project. Without limiting the generality of the foregoing, to the extent that Schedule B to the Consulting Agreement provides or implies that any work performed by Arcadis shall be compensated on a lump sum basis, said Schedule B shall not apply to this Project.
- 4. Areadis shall invoice the District on a monthly basis for work performed during the preceding month. All invoices will be supported by narrative time sheets listing, with respect to each block of time: the name of the person providing the services; a brief description of

## Memo

To:

**KLWTD Board** 

From: Carol Walker, CMC

CC:

Staff

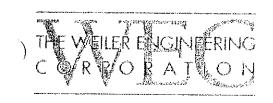
Date:

October 5, 2005

Re:

TAB 5

The attached is the status report from Weiler Engineering for TAB 5.



20020 Veterans Boulevard., Suite 7 Port Charlotte, FL 33954 (941) 764-6447 ph (941) 764-8915 fax

### Key Largo Wastewater Treatment District Engineering Status Report Period Ending 09/30/05

#### Key Largo Park

Trenching continued in the Key Largo Park and vacuum main was placed on Lauderdale Drive. ADB brought in a sub, Pabone Engineering, to excavate and lay pipe.

The new style Airvac pits were received. Bill Mouldin, the Airvac field representative, arrived for his four week service period. Clint Hawn of Airvac also came down to observe the new style pits being installed. One was installed, but several failed the preplacement pressure test and a number of others failed visual inspection by the Airvac representatives. Installation of the new pits was put on hold while the problem is being investigated. Installation of the old style pits is being carried on.

#### Key Largo Trailer Village

Cleanup and restoration continued in September. The transition from the HDPE pipe used in the US 1 crossing to the PVC used throughout the rest of the project was accomplished and the run of three 10-inch pipes from US 1 into the vacuum tank at the WWTP site began.

#### **KLTV Treatment Plant**

Work at the treatment plant progressed with the piping in of the vacuum pump skid and other components of the vacuum pump station. Coatings were applied to the administration/motor control center building. The electrical and plumbing work progressed throughout the month.

Ted Hortenstine of Brown and Caldwell worked on the wastewater treatment plant Operation and Maintenance Manual in September. He has the Fluidyne and miscellaneous equipment information in hand and was expecting delivery of the Airvac manuals shortly. He is also contacting the Florida Rural Water Association to request a copy of their guidance document for preparation of Operation and Maintenance Manuals.

Submittals for coatings and miscellaneous deliverables were received in September. WEC pointed out the Brown and Caldwell that the anchors for the Fluidyne tanks needed to be designed for the combined wind and buoyancy loads rather than each one separately. As a result, the anchors are being beefed up. The new anchors will be galvanized as specified for the miscellaneous metals rather than epoxy coated as proposed.

#### Lake Surprise Project

Design of the north component force main progressed in September. Several conference calls were held with CPH staff, District staff and WEC staff. CPH continued the hydraulic modeling of the force main system. The 30% design of the force main was submitted at the end of September and is currently under review by WEC and District staff.

The CPH proposal for the design of the collection systems for the Lake Surprise basin and the Largo Gardens basin was revised and pricing was negotiated. An acceptable scope and price for the design of the tow collection basins was reached and is recommended for approval. The pricing for the survey was too high, and that pricing is still under negotiation.

Through several conferences with Arcadis, MWH, WEC and District staff, the scope of work for the design and permitting of the wastewater treatment plant achieved an acceptable degree of detail. Both specific technical assumptions and level of effort by the designers was submitted. The position of Arcadis/MWH has been that they can not accurately provide their pricing until further details of the work are designed. After consultations with all parties and with District Counsel, it was decided to change the form of the proposed work authorization to an hourly task with a not-to-exceed total. It was also agreed that after the conceptual design stage was completed, the not-to-exceed pricing would be revisited with the intent of looking for reductions in cost.

#### **Haskell Pay Applications**

Payment of Haskell Pay Application No. 23 was submitted in September, but a number of adjustments were needed. As a result, the application was not approved by WEC until the end of the month. Pay Application No. 23 is now complete and will be submitted on the Payments Pending list for the October 3<sup>rd</sup> Board meeting.

#### Regulatory Compliance Issues

The Environmental Resources Permit has been provided to WEC. With the exception of final certifications and approval for use, this should complete the permitting processes.

#### **Project Team Meetings and Actions**

Ed Castle attended the scheduled Board meetings on September 7<sup>th</sup> and 21<sup>st</sup>. He also met with KLWTD staff on those dates prior to the Board meetings. He also attended the construction progress meetings for Key Largo Park on and also attended the weekly District Staff meetings either in person or by telephone. He also attended design review conference calls with CPH and District staff.

Ed Castle and Dave Gile of WEC performed construction inspection throughout the period.