To: Harris County Commissioners Court

Through: Gwen J. Sims, Interim Executive Director, Public Health Services

..prepared

Prepared By: William, Director, Office of Financial and Support Services

Subject: COVID-19 Contact Tracing Fund Request

..end

Project ID (If applicable]:

Purpose and Request:

..title

To request one month of operational funding from April 1, 2021 to April 30, 2021, for contact tracing operations in the amount of \$1.44 million.

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Background and Discussion:

Harris County Public Health (HCPH) has been formally responding to the COVID-19 pandemic since March 2020. Among other services, HCPH is currently providing COVID-19 vaccinations, testing, and contact tracing. On March 9, 2021, Commissioners Court asked HCPH to review its contact tracing operations and related funding request.

Fiscal Impact:

The funds are requested from the Public Improvement Contingency (PIC) fund. Contact tracing is not FEMA reimbursable. HCPH has a plan to right-size its contact tracing operations.

Fiscal S	ummary		
Expenditures	FY 20-21	FY 21-22 Projected	Future Years Projected [3 additional years]
Service Impacted:			
[Please provide service or division where			
expenditure will be used]*			
Existing Budget	\$21,927,072.00	\$1,999,459.00	
Additional Appropriation Requested	\$0.00	\$1,440,000.00	
Total Expenditures	\$21,927,072.00	\$3,439,459.00	
Funding Sources			
Existing Department Budget			
Please Identify Funding Source (General Fund,			
PIC, Special Revenue, Grant, Etc.)			
[INSERT FUNDING SOURCE HERE]*	PIC	PIC	
Total Sources			

Alternatives:

N/A

Alignment with Strategic Objective:

SO23 Reduce Cases of Preventable Infectious Diseases SO29 Increase Reported Levels of Preparedness in Communities

Attachments:

Gwen J. Sims, MEd, RD, LD Interim Executive Director 2223 West Loop South Houston, Texas 77027 Tel: (713) 439-6000 Fax: (713) 439-6080



Will Hudson, MPH, MSMOB, CPHQ Director. Office of Financial and Support Services 2223 West Loop South Houston, Texas 77027 Tel: (713) 439-6080 Fax: (713) 439-6080

COVID-19 ITEM

March 24, 2021

The Honorable Judge Lina Hidalgo and Commissioners Court Harris County Administration Building 1001 Preston, Room 938 Houston, Texas 77002

Dear Court Members:

On March 5, 2020, the County Judge's Office authorized departments to make any necessary purchases to expedite the County's response to COVID-19 health concerns. Departments were advised to work with the Purchasing Agent and track all costs incurred for review by Commissioners Court and possible reimbursement.

We request approval of one of the following three options with respect to contact tracing operational funding for April 1, 2021 to April 30, 2021.

		Option 1		Option 2	Or	otion 3
Contact Tracer		26		18		8
Case Investigator		122		87		51
Support/ Management		52		33		21
Total Headcount		200		138		80
Subtotal	\$	1,306,214	\$	895,764	\$	524,482
Less Grant/Volunteers	\$	(128,917)	\$	(128,917)	\$	(128,917)
Monthly Total	\$	1,177,298	\$	766,847	\$	395,565
Services	investigation population a settings such homes, work also address	nd congregate h as schools, nursing kplaces, etc. This will s surveillance of new antigen-related	investi popul optior such workp addre variar event antige cases	as schools, nursing homes, blaces, etc. This will also ess surveillance of new nt and vaccine adverse investigations, as well as en-related and probable	congregate se schools, nursir workplaces, et address survei variant and var event investiga antigen-related	or general t does provide for ttings such as ng homes, c. This will also illance of new

NOTE: There will be an initial increase in the recovery rate reported on the Data Hub through either of the options above, as CT/CI calls to active cases will not expedite cases' recovery status.

HCPH is the local public health agency for the Harris County, Texas jurisdiction. It provides a wide variety of public health activities and services aimed at improving the health and well-being of the Harris County community.

Follow HCPH on Twitter @hcphtx and like us on Facebook

If you have any questions or concerns regarding this matter, please contact William Hudson, HCPH Director of Office of Financial and Support Services at (713) 439-6000 or William.Hudson@phs.hctx.net.

Sincerely,

Gwen J. Sims, MEd, RD, LD Interim Executive Director

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Case Investigation / Contact Tracing Assessment

Executive Summary

It is premature to eliminate the program considering the broader COIVD-19 environment; however, right-sizing the capacity of the program to reflect areas of success and known issues with community-wide contact tracing is appropriate.

- Assessing contact tracing effectiveness has been a problem across the United States and most of
 the world. Dr. E. Susan Arimian Ph.D., leader of Rice University's Texas Policy Lab, coauthored a
 report published in the Clinical Infectious Disease Journal in August 2020 identifying political,
 social, economic, and uncontrolled community spread that have inhibited the success and ability
 to measure contact tracing effectiveness. Dr. David Lakey, MD, Director of the University of
 Texas System and the CDC has also identified the asymptomatic nature (up to 40%) of SARSCoV-2 and inadequate rapid testing as significant factors contributing to the ineffectiveness of
 contact tracing.
- Peer / Near-Peer Benchmark: As of this writing, public health departments supporting large urban areas in Texas including Dallas and Tarrant Counties as well as Houston and San Antonio Public Health Departments continue to conduct contact tracing.
- Financial Relief: The American Rescue Plan Act of 2021 has earmarked \$7.6 billion for State and local public health response support, including case investigation and contact tracing. In addition, another \$47.8 billion is being dedicated to building national public health capacity including case investigation and contact tracing.
- Outbreak Uncertainty: The full impact of opening Texas, lifting the mask order, spring break, and B.1.1.7. variant will not be realized for several more weeks.

Recommendation

The following recommendations will result in a 30-40% reduction in current staffing levels and a reduction \$550,000 reducing expenses from \$1.99 million to \$1.44 million per month:

- Reduce "Active Case" contact tracing capacity to a level commensurate with the current workload and case priority strategy plus a small surge capacity.
- Retain MDT/PC (congregate and school setting program) in full. Additional reductions may be possible at the end of the school year (June 2021).
- Reduce 'intake' in proportion to active case reductions.
- Re-evaluate monthly based on trends and projected heath threats and funding potential from outside sources.
- Non-Contact Tracing: Temporarily increase funding to support CRP database management. Due to shifting priorities, maintenance of the CRP database has fallen behind. Developed with the data team, an initial estimated increase from 20 to 60 maintenance/coding hours per week is needed to catch up on current workorders and make requested improvements.

Benchmark with Peer / Near-Peer Jurisdictions

To glean perspective, a survey of the large public health departments by Harris County contact tracing leadership and an internet search by Rice University's Texas Policy Lab was conducted. The findings are a mixed bag of continuing and discontinuing contact tracing programs. Dallas and Tarrant Counties, as well as Houston and San Antonio Public Health continue to contact trace although all are currently evaluating the utility of their programs. Dallas County intends to stop in May 2021. Nationally, other large counties have continued their programs including Cook County (Chicago), Los Angeles County, and Maricopa County (Phoenix). Several small counties including Hunt, Galveston (Feb 2021) and Denton have stopped contact tracing. Austin Public Health appears to stop their program during surges and reinstate it during troughs in the epidemiological curve. States who have stopped contact tracing include Wyoming and, temporarily, New Hampshire (see Near-Term Outlook) although contact tracing continues below the state level.

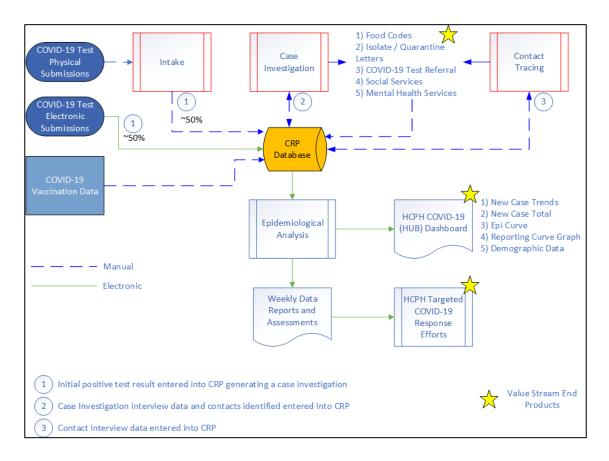
Near-Term Outlook

The near-term outlook, 30-60 days, has several competing influences needing consideration. On a positive side, the vaccination program and the American Rescue Plan Act of 2021 offer hope of an improving COVID-19 landscape. Nationwide, vaccine production is accelerating to reach President Biden's goal of having a vaccine dose available for 100% of the population by the end of May. On March 8th, the America Rescue Plan signed into law providing \$7.66 billion (Section 2501) to support State and local public health departments with response staff to include case investigators and contact tracers. In addition, another \$47.8 billion (Section 2401) is earmarked to build a federal "public health corps" of 100,000 staff to assist State and local governments with testing, contact tracing, surveillance, and mitigation activities.

On the negative side, the significance of the 100% opening of Texas and lifting of the mask mandate combined with Spring Break and SARS-CoV-2 variant B.1.1.7 is yet to be known. Of the four new variants in circulation, the B.1.1.7. circulating in Harris County is of particular concern. It is responsible for a resurgence in Italy and is the reason New Hampshire recently reinstated their contact tracing program this month.

Information Flow and Value Stream

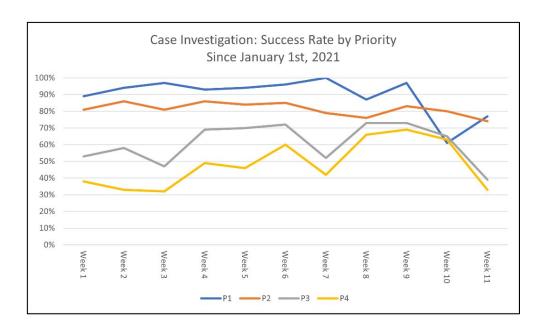
This diagram illustrates data flow and value stream impacted by the contact tracing program. Value is defined as a product for internal use by another area or service provided to a citizen. The processes in red identify the contact tracing functions. The "Yellow Stars" identify 'value' touch points for citizens, Harris County products, and programs - specifically: direct social support services, the Harris County / City of Houston COVID-19 Data Hub, and on-going targeted response efforts in long-term care, schools, and business settings are impacted by the contact tracing program. Reductions should not impact the current value stream and product delivery.



Program Performance

In January 2021, the need to develop individual and program performance metrics was identified to understand program capacity and better manage the program. Since that time, contact tracing leadership has successfully developed and implemented individual and program key performance indicators (KPIs).

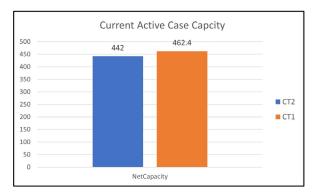
Priority Level	Time from Collection
Priority 1	<24 hours
Priority 2	<48 hours
Priority 3	<72 hours
Priority 4	<96 hours

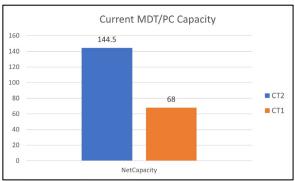


The prioritization process was extended to contacts in January. The team is still working on capturing the data to generate metrics.

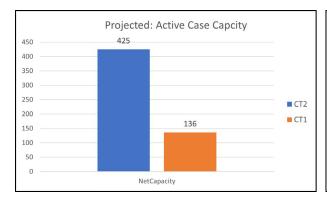
Capacity Baseline

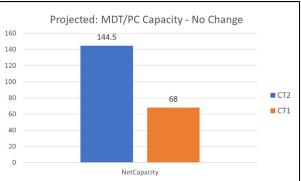
Case Investigation developed baseline performance requirements in coordination with improved quality control procedures at the individual level. Pilot results indicate a potential 300% increase in productivity while improving quality of case investigations. Full program wide implementation began in March 2021. These charts estimate case investigation and contact tracing capacity based on the pilot for the two mission areas of the program.





Projected Capacity:



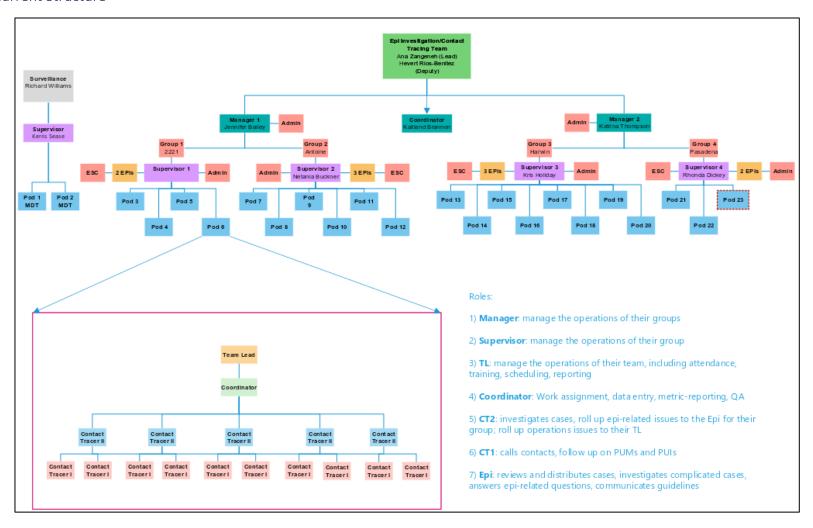


Attachment A: Case Investigation Effectiveness

				Case Inves	tigation Attempte	ed & (Reached) Pe	ercentages				
Priority Level	Week of 2021-01-04	Week of 2021-01-11	Week of 2021-01-18	Week of 2021-01-25	Week of 2021-02-01	Week of 2021-02-08	Week of 2021-02-15	Week of 2021-02-22	Week of 2021-03-01	Week of 2021-03-08	Week of 2021-03-15
Priority 1 (<24 Hour	s) 89.36% (89.36%)	97.35% (94.69%)	97.53% (97.53%)	96.95% (93.91%)	100% (94.7%)	98.94% (96.81%)	100% (100%)	100% (87.01%)	100% (97.83%)	95.24% (61.9%)	77.78% (77.78%)
Priority 2 (<48 Hour	s) 97.91% (81.43%)	98.83% (86.6%)	95.34% (81.08%)	99.1% (86.92%)	99.11% (84.57%)	99.64% (85.8%)	97.72% (79.25%)	98.42% (76.92%)	98.79% (83.04%)	99.67% (80.36%)	90.91% (74.13%)
Priority 3 (<72 Hour	s) 64.17% (53.39%)	67.09% (58.2%)	55.85% (47.5%)	86.87% (69.35%)	87.26% (70.58%)	98.41% (72.95%)	79.3% (52.03%)	94.39% (73.17%)	98.6% (73.22%)	98.54% (65.64%)	71.57% (39.87%)
Priority 4 (<96 Hour	s) 44.33% (38.88%)	40.13% (33.86%)	38.47% (32.78%)	61.02% (49.04%)	60.56% (46.78%)	87.65% (60%)	49.94% (42.2%)	86.79% (66.48%)	97.31% (69.26%)	92.66% (63.38%)	60.09% (33.49%)
Overall	68.24% (57.5%)	76.38% (66.6%)	68.9% (58.93%)	85.42% (72.25%)	84.75% (70.18%)	95.57% (74.39%)	77.31% (58.85%)	95.06% (74.05%)	98.12% (73.57%)	96.28% (68.53%)	70.09% (44.86%)
HCPH Data. Distribution	n: Not approved. For HCP	'H Leadership only. Updat	ted: 2021-03-17								

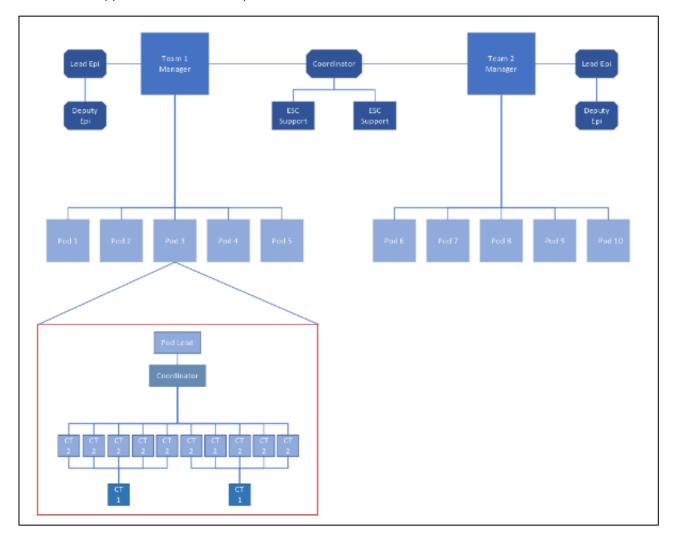
Attachment B: Organization Structure Change

Current Structure



Projected Structure

- 1) Consolidates from 20 to 10 PODs.
- 2) Eliminates the "Supervisor" level of management.
- 3) Reduces and consolidates support staff for efficiency.



THE STATE OF TE	XAS {	§							
COUNTY OF HAR	RIS §	§							
				•	xas, Met in a regular session at its regular term at of Houston, Texas, on,				
with the followin	ng memb	oers present:							
Lina Hidalgo		Coun	County Judge						
Ro	Rodney Ellis		Comi	Commissioner, Precinct No. 1					
Ad	lrian Gar	rcia	Comi	Commissioner, Precinct No. 2					
То	m S. Rar	msey, P.E.	Comi	missior	ner, Precinct No. 3				
R	Jack Cag	gle	Comi	missior	ner, Precinct No. 4				
and the following	g memb	ers absent:_							
constituting a qu	iorum, w	when among	other bu	ısiness	the following was transacted:				
OF tracing operation			HARRIS	COUN.	TY PUBLIC HEALTH to approve a request for contact				
tracing operation Commissioner_	nal fund	ling.		in	TY PUBLIC HEALTH to approve a request for contact troduced an order and moved that Commissioners seconded the motion for adoption of				
Commissioner_Court adopt the	order. (ling. Commissione	r	in	troduced an order and moved that Commissioners				
Commissioner_Court adopt the	order. (Commissione	r	in	troduced an order and moved that Commissionersseconded the motion for adoption of				
Commissioner_Court adopt the order. The m	order. (Commissione	rit the ac	ir	troduced an order and moved that Commissionersseconded the motion for adoption of of the order, prevailed by the following vote:				
Commissioner_Court adopt the order. The m	order. C	Commissione carrying with	rit the ac	ir	troduced an order and moved that Commissionersseconded the motion for adoption of of the order, prevailed by the following vote: Abstain				
tracing operation Commissioner_ Court adopt the other. The m	order. Conotion, co	Commissione carrying with idalgo	rit the ac	ir	troduced an order and moved that Commissionersseconded the motion for adoption of of the order, prevailed by the following vote: Abstain				
Commissioner_Court adopt the order. The m	Judge H Comm. (Commissione carrying with idalgo	r it the ac Yes []	in	troduced an order and moved that Commissionersseconded the motion for adoption of of the order, prevailed by the following vote: Abstain [] []				
Commissioner_Court adopt the order. The m	Judge H Comm. (Commissione carrying with idalgo Ellis Garcia Ramsey	r it the ac Yes [] []	in	troduced an order and moved that Commissionersseconded the motion for adoption of of the order, prevailed by the following vote: Abstain [] [] []				

The meeting chair announced that the motion had duly and lawfully carried and that the order had been duly and lawfully adopted. The order adopted follows:

IT IS ORDERED that the County Judge is authorized to approve Harris County Public Health (HCPH) to approve a request for contact tracing operational funding. The funding period is April 1, 2021 to April 30, 2021.

The documents are attached hereto and incorporated herein and incorporated as if set out in full word for word. Harris County is authorized to do any and all things necessary or convenient to accomplish the purpose of this Order.