

Maura Hayes-Chaffe

**Deputy Comptroller for Audit** 



Audit of the Department of Health and Mental Hygiene's Emergency Contract with Executive Medical Services PC for COVID-19 Related Services

MJ22-085A | June 28, 2023





## THE CITY OF NEW YORK OFFICE OF THE COMPTROLLER BRAD LANDER

June 28, 2023

To the Residents of the City of New York:

My office has audited the Department of Health and Mental Hygiene's (DOHMH) emergency contract with Executive Medical Services PC for COVID-19 related services. The purpose of this audit was to determine whether DOHMH ensured that payments to the vendor were allowable and fully supported, that staffing levels set by the vendor were commensurate with demand, and that DOHMH equitably established testing and vaccination sites consistent with contract parameters. The Office of the New York City Comptroller conducts audits of City agencies such as this as a means of ensuring that City resources are used effectively.

The audit determined that DOHMH established testing and vaccination services in communities most affected by COVID-19, as required. The audit also found that sampled invoices were generally well supported by documentation. These are significant achievements given the unprecedented emergency and the need to ensure the availability of testing and vaccinations across New York City.

Nonetheless, the need for improvements was identified, particularly in cost containment. The audit found that DOHMH primarily relied on the vendor to set staffing levels that were later billed and paid for under the terms of the contract, and as a result of this, costs were not well monitored or controlled.

A review of invoices totaling more than \$200 million in payments for COVID-19 tests and vaccinations, found that, on average, one test was administered approximately every 1.61 staff hours paid at the eight long-term/fixed testing sites, and at the 23 long-term/fixed vaccination sites, only one vaccination was administered approximately every two staff hours.

The auditors also found significant variations in cost by location. An analysis of sampled invoices shows an overall average cost of \$405 per test, and that New York City paid between \$202 to \$937 per administered test, depending on location. Similarly, the overall average cost per vaccination at long-term/fixed sites in the sample was \$334. However, the variance by location was even greater, with the average cost per vaccination per site ranging from \$169 to \$2,423.

While the audit recognizes that DOHMH was responding to an unprecedented pandemic situation, effective cost-management was not incompatible with DOHMH's overarching mission, and indeed, is an essential part of emergency preparedness.

The audit recommends that when monitoring future contracts, DOHMH should implement a process for setting appropriate staffing levels that are commensurate with demand; conduct regular

cost analyses after the initial stage of contract implementation to continuously monitor and adjust for efficiency; ensure that all verification documents include appropriate agency certification that the services claimed by the contractor were provided; ensure that it formally documents key decisions regarding site selections; and ensure that required vendor performance evaluations are completed at least once annually.

The results of the audit have been discussed with DOHMH officials and their comments have been considered in preparing this report. DOHMH's complete written response is attached to this report.

If you have any questions concerning this report, please e-mail my Audit Bureau at audit@comptroller.nyc.gov.

Sincerely,

Brad Lander

New York City Comptroller

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### **AUDIT IMPACT**

### **Summary of Findings**

The audit found that the Department of Health and Mental Hygiene (DOHMH) established testing and vaccination services in communities most affected by COVID-19, as required. The audit also found that sampled invoices submitted to DOHMH were generally well supported by documentation, but that certain improvements could be made in monitoring future contracts.

DOHMH did not implement a monitoring plan with reasonable, clear, and understandable standards for assessing contractor performance, and primarily relied on the vendor to set staffing levels that were later billed and paid for under the terms of the contract.

Based on a review of invoices totaling more than \$200 million in payments for COVID-19 tests and vaccinations, the staffing levels set by EMS PC were not well monitored. As a consequence of this, the costs of administering tests and vaccinations were not controlled.

On average, the ratio of administered tests/vaccinations to staffing hour paid for by DOHMH was less than one to one. An analysis of sampled invoices shows that only one test was administered approximately every 1.61 staff hours paid at the eight long-term/fixed testing sites, and at the 23 long-term/fixed vaccination sites, only one vaccination was administered approximately every two staff hours.

The auditors also found significant variations in cost by location. An analysis of sampled invoices shows an overall average cost of \$405 per test, but that New York City paid between \$202 to \$937 per administered test, depending on location. Similarly, the overall average cost per vaccination at long-term/fixed sites in the sample was \$334. However, the variance by location was even greater, with the average cost per vaccination per site ranging from \$169 to \$2,423.

In addition, the audit found that DOHMH did not complete the vendor performance evaluation for the EMS PC contract within the specified timeframe, as required by the New York City Procurement Policy Board (PPB).

Details concerning each of the findings follows below.

#### **Intended Benefits**

The audit identified areas where DOHMH's oversight and monitoring of contracted vendors could be improved to more effectively control expenditures and to minimize waste.

### INTRODUCTION

### **Background**

DOHMH's mission is to protect and promote the health and well-being of New Yorkers. DOHMH engages with communities to develop and implement public health programming and policy recommendations, enforces health regulations, responds to public health emergencies, and provides limited direct health services.

DOHMH is integral to New York City's COVID-19 public health emergency response. According to the Fiscal Year 2021 Mayor's Management Report, DOHMH's top COVID-19 priorities in 2020–2021 were to rapidly address any resurgence in COVID-19 infections; to vaccinate New Yorkers for influenza and COVID-19; to partner with City communities to develop effective local strategies; and to address "parallel pandemics" related to COVID-19, including other infections (e.g., tuberculosis), chronic diseases (e.g., heart disease), mental illness, drug abuse, racism, and social and economic instability.

As part of its response to the COVID-19 pandemic and the emergency declaration, DOHMH entered into an emergency contract with Executive Medical Services PC (EMS PC) on behalf of the City on May 22, 2020. The contract stipulated that EMS PC would provide COVID-19 shelter and at-home COVID-19 swab tests, with an initial term of May 22, 2020 through May 21, 2021. During this period, DOHMH would reimburse EMS PC for funds expended, with a Maximum Reimbursable Amount (MRA) of \$500,000.

The contract was amended six times between November 2020 and September 2022. The scope of services to be provided, the term of the contract and the MRA were all impacted. Services were expanded to include non-COVID 19 services and services in residential as well as community-based settings. The term of the contract was ultimately extended through December 31, 2022, with a final MRA of \$460 million. According to the City's Financial Management System (FMS), DOHMH paid EMS PC approximately \$389.8 million for services under this contract by March 15, 2023.

Community-based (non-adult care facility) testing and vaccination services provided under the EMS PC contract consisted of both long-term/fixed and pop-up sites throughout the City. Long-term/fixed sites were generally permanent locations, mostly in brick-and-mortar buildings, that provided services for several weeks to months at a time, whereas pop-up sites were temporary locations providing services for short time periods. The majority of the pop-up sites for testing and vaccination were one-day events, with some sites being operational for several days.

Most of the sites staffed by EMS PC and covered under the contract were pop-up sites. There were 9 long-term/fixed and 166 pop-up testing sites, and 36 long-term/fixed and 101 pop-up vaccination sites operating at different points in time during the contract period. (A complete list of these testing and vaccination locations is presented in Appendices III and IV, respectively.)

During the COVID-19 emergency, DOHMH was tasked with establishing testing and vaccination sites throughout New York City. For testing services, DOHMH stated that it used community-informed and data-driven approaches to increase the uptake of COVID-19 testing in priority neighborhoods, with a focus on neighborhoods with longstanding inequities and the highest

<sup>&</sup>lt;sup>1</sup> EMS PC is also known as Affiliated Physicians (AP).

burden of disease. For vaccination services, DOHMH stated that the City's efforts emphasized equitable access to vaccines while focusing on high-risk populations, low coverage neighborhoods, and locations near public transportation for increased access.

According to DOHMH officials, decisions on sites to prioritize COVID-19 testing and vaccination services throughout New York City were a collaborative effort that involved DOHMH leadership, City Hall, the Department of Education (DOE), the Health and Hospitals Corporation (H+H), and other City agencies and key stakeholders. EMS PC was one of the providers that the City used in its COVID-19 response efforts. DOHMH officials further stated that many vaccination sites (whether operated by EMS PC, H+H, or others) were set up in neighborhoods identified by the NYC Taskforce on Racial Inclusion & Equity (TRIE). In addition, officials stated that decisions about utilizing EMS PC to provide vaccination and testing services (e.g. the sites to set up) were determined in partnership with City Hall, Incident Command System (ICS), and other City agencies, and occurred at selected sites, including City Hall, parks, Rikers Island, DOE schools, and community- and faith-based organizations.

The scope of this audit was limited to community-based COVID-19 related services over the period from May 2020 to December 2022.

### **Objectives**

The objectives of this audit were to determine whether DOHMH:

- 1) ensured that payments to the vendor were allowable and fully supported;
- 2) ensured that staffing levels set by the vendor were commensurate with demand; and
- 3) equitably established testing and vaccination sites consistent with contract parameters.

<sup>&</sup>lt;sup>2</sup> The NYC Taskforce on Racial Inclusion & Equity (TRIE) was established by New York City in April 2020 in response to the disproportionate impact of COVID-19 on communities of color. TRIE brought together City leaders from 67 agencies and offices to work in teams to monitor the COVID-19 response and identify solutions to deliver immediate and long-term relief to those communities that suffered a disproportionate impact of COVID-19. TRIE prioritized neighborhoods based on COVID cases, deaths, and other health and socioeconomic indicators.

#### Discussion of Audit Results with DOHMH

The matters covered in this report were discussed with DOHMH officials during and at the conclusion of this audit. An Exit Conference Summary was sent to DOHMH on April 24, 2023 and discussed with DOHMH officials at an exit conference held on May 2, 2023. On May 11, 2023, we submitted a Draft Report to DOHMH with a request for written comments. We received a written response from DOHMH on May 30, 2023.

In its response, DOHMH agreed with three of the audit's five recommendations (#1, #2, and #5), disagreed with one recommendation (#4), and believed one recommendation (#3) was not needed as the process was already in place.

DOHMH also disagreed with the audit's finding that the agency did not adequately control and monitor EMS PC's staffing levels, and stressed the context within which they were working. The auditors acknowledge upfront the many challenges faced by DOHMH during this time. While the audit recognizes that DOHMH was responding to an unprecedented pandemic situation without the benefit of official cost control guidance, effective cost-management was not incompatible with DOHMH's overarching mission, and indeed, is an essential part of emergency preparedness.

As contracts of this nature proceed, it is important that New York City's fiscal interests are safeguarded by prudent systems of oversight and monitoring. DOHMH's written response has been fully considered and, where relevant, changes and comments have been added to the report.

The full text of the DOHMH response is included as an addendum to this report.

### **DETAILED FINDINGS**

The auditors found that DOHMH was able to establish testing and vaccination services in communities most affected by COVID-19, as required. The audit also found that sampled invoices submitted to DOHMH were generally well supported by documentation, but that certain improvements could be made in future contracts.

In fiscal terms, based on the audit's review of sampled invoices totaling more than \$200 million for COVID-19 tests and vaccinations, the auditors found concerning indications that staffing levels were not well monitored or controlled and that, as a consequence, the number of tests and vaccinations administered and paid for under the contract averaged fewer than one per staff hour. Additionally, the audit found that significant variations in cost occurred by location. This raises questions about whether staffing levels established by the vendor and paid for by New York City were truly necessary.

The auditors also found that DOHMH did not complete the vendor performance evaluation for the EMS PC contract within the specified timeframe, as required by the New York City Procurement Policy Board (PPB).

## DOHMH Did Not Adequately Control or Monitor Staffing Levels

DOHMH did not implement a monitoring plan with reasonable, clear, and understandable standards for assessing contractor performance, and relied heavily on the vendor to set staffing levels that were later billed and paid for under the terms of the contract.

The contract provided for EMS PC to be reimbursed based on the number of staff on a per hour basis, plus a flat fee per test or vaccination. Costs were as follows:

- Testing sites: \$150 per hour, plus \$100 per test administered;<sup>3</sup> and
- Vaccination sites: \$150 per hour, plus \$25 per vaccine administered.

The hourly rate paid to EMS PC under the contract included both administrative and personnel costs.

According to Section 5(A) of the original EMS PC contract, DOHMH was responsible for developing and implementing a monitoring plan that specified "reasonable, clear and understandable standards" for assessing contractor performance and included a "time frame for all management and oversight functions." Further, according to Section 5(B), the contractor's performance was to be evaluated based on, among other things, the achievement of the level of services.

DOHMH did not establish or communicate optimal staffing level benchmarks or standard service levels for administering tests or vaccinations, or design any formal mechanisms for assessing EMS PC's staffing levels on an ongoing basis. DOHMH's monitoring plan did not set standards for assessing whether EMS PC appropriately staffed vaccination and testing sites based on demand. DOHMH did not capture the data necessary to determine how many EMS PC staff

<sup>&</sup>lt;sup>3</sup> The \$100 per test fee was modified in the first contract amendment (dated September 2020) requiring DOHMH to pay an additional \$65 fee to EMS PC (for a total of \$165) for each test processed at a private commercial laboratory.

members were directly testing and vaccinating patients and how many were providing support. As a result, DOHMH was unable to effectively determine the number of tests and vaccines administered per hour by each EMS PC staff member assigned and DOHMH had limited means of effectively controlling expenditures or minimizing waste.

During the audit and in its response to the draft report, DOHMH disputed the accuracy of this finding. DOHMH officials indicated that for testing sites, the assignment of staff members was a collaborative effort between DOHMH and EMS PC. DOHMH directed EMS PC when and where to provide services for COVID-19 testing and handled general communications with EMS PC, but DOHMH conceded it was EMS PC's responsibility to assess and determine the number of staff members needed for an event.

For vaccination events, DOHMH indicates that EMS PC was given guidance regarding staffing levels and states that staffing levels were adjusted each week based on anticipated demand and other factors. DOHMH officials asserts that they utilized appointment data, on-hand inventory of various types of vaccines, and floor plans to determine the staff level required at each vaccination site in a calendar grid and shared the grid with EMS PC weekly.

DOHMH officials stressed that in the middle of the COVID-19 pandemic emergency, the agency was focused on providing testing to as many people as possible to help control the spread of COVID-19. Officials said that EMS PC supplied sufficient staff to register patients, monitor patient flow, and administer COVID-19 tests, while managing patient influx, so people could be tested as frequently as necessary and minimize wait times.

According to DOHMH, its contracted testing and vaccination operations required more staffing at certain sites, in part due to the size and/or layouts of the facilities being used. DOHMH also explained that there may have been additional time needed to test and vaccinate patients because of several factors, including language barriers, a patient's age (e.g., younger children), acquiring additional screening information if necessary, and social distancing measures. Officials also cited safety measures as a significant factor that was critical to the vaccine operation, as required by the Centers for Disease Control and Prevention (CDC), that played a large part in determining the staffing levels.

DOHMH also states that assessments were performed on a regular basis and that they involved a close review of event summaries, site operations data, and verbal conversations. DOHMH indicates in its response to the draft report that such communication was provided to auditors.

While the auditors were given copies of communication with EMS in relation to staffing at Riker's Island, examples of emails between DOHMH and EMS PC regarding vaccination sites, and copies of weekly calendar grids showing DOHMH-approved staffing levels, DOHMH did not provide evidence of communication regarding staffing levels at any other testing sites and it provided no documentation illustrating how its staffing assessments were performed or how approved staffing levels were established.

DOHMH also disagreed with the audit's assessment that the agency's inability to effectively determine the number of tests and vaccines administered per hour by staff assigned to perform such duties played any role in cost control. DOHMH stated that the CDC required that both clinical and non-clinical staff fulfill key roles at testing and vaccination sites. However, this requirement does not negate the audit's finding that DOHMH was unable to assess the actual service levels at the sites because it did not know how many EMS PC staff members were in clinical versus non-clinical roles.

DOHMH further stated in its response that it has strong internal controls to prevent and detect fraud, waste, and abuse and these controls were in place during the management of the EMS PC contract. Nevertheless, the auditors have concluded that the absence of a quantitative monitoring plan that included an assessment of staffing levels contributed to both (1) an average of less than one test or vaccination administered for every staff hour billed to the City, and (2) the wide variance among the sites in the average costs of the tests and vaccinations conducted, which are discussed in the following section.

As discussed further below, the results of the invoice review clearly show that costs were not effectively controlled and that DOHMH's ability to ensure that only necessary staff were paid for by New York City was limited.

# Invoice Analysis Shows on Average Fewer Than One Test or Vaccination Administered per Every Staff Hour Billed and Per Unit Costs of Services Varied Significantly

The auditors reviewed a judgmental sample of 49 invoices (and supporting documentation) totaling \$317.7 million. Of this total, \$239.1 million was paid to EMS PC for COVID-19 testing and vaccination services provided at 315 sites for either the entire duration of a testing/vaccination event or until the month of June 2022 (whichever was sooner). Breakdowns of the types of events and the amounts paid for these 315 sites are shown in Tables I and II below.

An analysis of these invoices shows that at the eight long-term/fixed testing sites, an average of 0.62 tests were administered per staff hour paid to the vendor. In other words, invoices show that one test was administered approximately every 1.61 staff hours paid in the sample.

Similarly, a review of invoices for the 23 long-term/fixed vaccination sites found that an average of 0.49 vaccinations were administered in one staff hour; therefore, one vaccination was administered approximately every two staff hours. The analysis showing the average number of tests and vaccinations per staff hour for the sampled long-term/fixed sites is shown below in Tables III and IV.

The auditors also found that the per unit costs of services varied significantly among the sampled long-term/fixed sites. An analysis of sampled invoices shows an overall average cost of \$405 per test. However, the amounts in the sample varied significantly among locations; New York City paid between \$202 to \$937 per administered test.

The overall average cost per vaccination at long-term/fixed sites in the sample was \$334. However, the variance by location was even greater, with the average cost per vaccination per site ranging from \$169 to \$2,423.

A series of Tables and Charts appears below. Additional information regarding sites included in the sample also follows in the Appendices.

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<sup>&</sup>lt;sup>4</sup> An event duration refers to a time period an event was in operation. An entire event duration refers to a site that was opened and closed (no longer operating) during the invoice review period.

**Table I**Number of Sampled Sites Analyzed

Type of Service	Number of Invoices Analyzed	<u>Period</u>	Total # of Events	Number of Long- term/Fixed Sites <sup>5</sup>	Number of Pop-up Sites <sup>6</sup>
Testing	23	August 2020 – February 2022	172	8	164
Vaccination	26	January 2021 – June 2022	143	23	120
Total	49		315	31	284

Table I, above, shows a summary of the total number of invoices and the total number of sampled long-term/fixed sites reviewed by the audit. There were 23 invoices for COVID-19 testing that included billing for eight long-term/fixed sites and 164 pop-up sites. In addition, there were 26 invoices for COVID-19 vaccinations that included billing for 23 long-term/fixed and 120 pop-up sites. In total, there were 49 invoices reviewed and 315 sites included in the audit's analysis.

Table II, below, shows a summary analysis of the total payments made for these 315 sites, including the total number of staff hours and patients serviced, and the audit's calculations of the average cost per patient for the long-term/fixed sites, pop-up sites, and overall average considering both, broken down by testing and vaccination services. In total, there were 1,434,746 billed staff hours to provide testing and vaccination services to a total of 706,817 patients, totaling \$239.1 million.

<sup>&</sup>lt;sup>5</sup> There were an additional 14 long-term/fixed sites (1 for testing and 13 for vaccination) that were included in the reviewed invoices, however, these sites were excluded from the audit's analysis of the staffing and average cost per patient because the invoices did not include the complete testing and vaccination data for these locations.

<sup>&</sup>lt;sup>6</sup> There were 13 event days for 64 pop-up vaccination sites that were included in the reviewed invoices; however, these events were excluded from the audit's analysis of the staffing and average cost per patient because the patient data and the staff hours data were comingled with other events, and the auditors were unable to identify the complete testing data for these locations.

**Table II**Summary Analysis of Payments Made for the 315 Sampled Sites

Type of Service			Long-term/Fixed Sites			<u> </u>	op-up S	Avg Cost per Patient		
			<u>Payments</u>	<u>Low</u>	<u>High</u>	Avg cost per patient	<u>Low</u>	<u>High</u>	Avg Cost per Patient	(includes both long- term/fixed and pop-up sites)
Testing	67,785	47,487	\$17,596,891	\$202	\$937	\$405	\$128	\$2,040	\$247	\$371
Vaccination	1,366,961	659,330	\$221,525,663	\$169	\$2,423	\$334	\$70	\$14,050	\$542	\$336
Total	1,434,746	706,817	\$239,122,554							

\$15 million of the approximately \$17.6 million paid for testing services shown in Table II was for services provided at long-term/fixed sites; this can be seen from Table III below, which shows an analysis of the payments made for the eight long-term/fixed testing sites selected.

**Table III**Analysis of 8 Sampled Long-Term/Fixed Testing Sites

								itors' lations
Event		Total # of Event	Total #	Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Average Cost Per Test	Average # of Tests Per Staff Hour
Dates	Location Name	Days	of Staff	Α	В	С	C/B	B/A
Sep 2020 – Jan 2021	City Hall	17	62	190	715	\$144,265.00	\$201.77	3.76
Nov 2020 – Feb 2022	Rikers Island Correctional Facility & VCBC – Vernon C. Bain Visitor Center	265	3,314	50,096.25	32,113	\$12,744,982.50	\$396.88	0.64
	DFTA-FGC – Christopher Blenman NSC	16	85	777.5	151	\$141,540.00	\$937.35	0.19
	DFTA-FGC – Grant Square NSC	16	80	707.5	164	\$133,185.00	\$812.10	0.23
	DFTA-FGC – Hugh Gilroy NSC	16	86	786	178	\$147,270.00	\$827.36	0.23
Dec 2021 – Jan 2022	Gotham – LIC	23	391	3,910	2,408	\$983,820.00	\$408.56	0.62
Feb 2021 – May 2021	Catholic Charities Grand Street Guild	37	164	1,392	658	\$317,370.00	\$482.33	0.47
	Factory – 30-30 47th Avenue	19	223	1,980	701	\$412,665.00	\$588.68	0.35
TOTAL				59,839.25	37,088	\$15,025,097.50	\$405.12	0.62

Table III shows that other than services administered at City Hall, which had an average of almost four tests administered per staff hour, the average number of tests administered did not exceed 0.64 tests per staff hour. Overall, on average, 0.62 tests were administered at the eight sampled long-term/fixed sites per staff hour.

Table IV, below, shows an analysis of the payments made for the 23 long-term/fixed vaccination sites selected. Of the \$221.5 million paid for vaccination services, almost \$218 million related to services provided at long-term/fixed sites.

Table IV

Analysis of 23 Long Term/Fixed Vaccination Sites

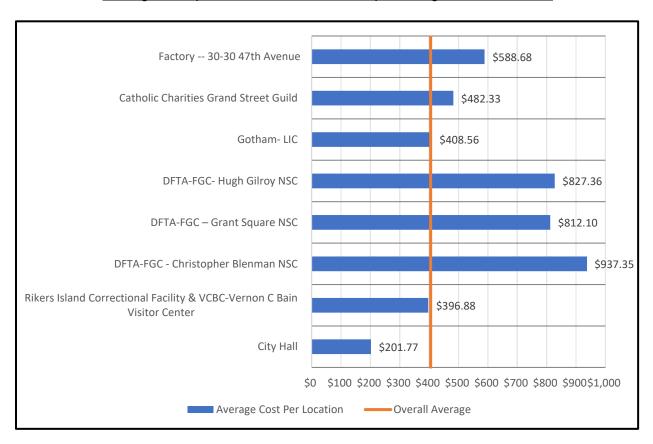
							Audite Calcula	
							Calcula	Average
Event Dates	Location Name	Total # of Event Days	Total # of Staff	Total # of Staff Hours A	Total # of Patients Serviced B	Total Billed Amount C	Average Cost Per Vaccine C / B	# of Vaccines Per Staff Hour B / A
Jan 2021 –		_						
	Manhattan Chelsea	2	10	95.00	92	\$16,550.00	\$179.89	0.97
	Queens Jamaica	2	8	76.00	62	\$12,950.00	\$208.87	0.82
Jan 2021 –		000	<b>5 5</b> 4 0	70 000 75	75.000	<b>*</b> 40 <b>7</b> 40 000 50	<b>*</b> 400.05	4.04
	Manhattan Worth St.	209	5,540	72,263.75	75,092	\$12,716,862.50	\$169.35	1.04
	Museum Natural	000	44.050	450 470 00	07.044	000 004 475 00	0074.44	0.04
	History	329	14,959	159,179.00	97,014	\$26,301,475.00	\$271.11	0.61
	Queens Mall –	205	20.700	040 450 00	420.204	¢40,400,4E0,00	<b>#240.40</b>	0.50
Jun 2022 Apr 2021 –	Former Modell's	385	20,796	248,153.00	130,384	\$40,482,150.00	\$310.48	0.53
	Coney Island YMCA	86	2,357	30,269.00	12,863	\$4,861,925.00	\$377.98	0.42
	Brooklyn Children's	00	2,331	30,209.00	12,003	φ4,001,923.00	φ311.90	0.42
	Museum	243	7,057	81,006.50	37,033	\$13,076,575.00	\$353.11	0.46
May 2021 –	Muscum	270	7,007	01,000.50	37,000	ψ10,070,070.00	ψ000.11	0.40
	Bronx Zoo	47	929	9,004.50	2,908	\$1,423,375.00	\$489.47	0.32
May 2021 -	BIOTIX 200		020	0,001.00	2,000	ψ1,120,010.00	Ψ100.17	0.02
,	One Jamaica Center	53	668	8,101.00	1,502	\$1,252,700,00	\$834.02	0.19
Jun 2021 –				2,101100	.,	<del>+ 1,===,+====</del>	700110	
	Beach 39th St	123	4,398	53,847.50	18,181	\$8,531,650.00	\$469.26	0.34
	City College North							
	Academic Center	20	289	3,512.75	1,232	\$557,712.50	\$452.69	0.35
Jun 2021 –								
	NY Aquarium	25	370	3,665.00	741	\$568,275.00	\$766.90	0.20
Jun 2021 –								
	City Point	141	6,085	74,543.00	46,921	\$12,354,375.00	\$263.30	0.63
Jun 2021 –		7	07	4 404 00	470	¢470 000 00	<b>#4 047 0</b> 5	0.45
	Edenwald YMCA	7	97	1,164.00	176	\$179,000.00	\$1,017.05	0.15
Jun 2021 – Jun 2022	Long Island City	262	11,178	136,077.00	52,961	¢24 725 475 00	\$410.41	0.39
Jul 2021 –	Long Island City	202	11,170	130,077.00	32,901	\$21,735,475.00	φ410.41	0.59
	Essex Crossing	188	9,533	117,619.00	59,150	\$19,121,600.00	\$323.27	0.50
	West Bronx	100	0,000	117,010.00	00,100	Ψ10,121,000.00	Ψ020.21	0.00
	Gymnasium	192	7,771	94,928.00	35,392	\$15,124,000.00	\$427.33	0.37
Jul 2021 –			,		, <b>-</b>	, -,,	,	1
	The Jefferson	258	8,999	109,649.00	37,542	\$17,385,825.00	\$463.10	0.34
Jul 2021 –								
Jun 2022	The Livonia	258	8,682	105,778.00	31,702	\$16,659,225.00	\$525.49	0.30
	Ocean Breeze							
	Athletic Complex	51	1,237	15,138.25	8,638	\$2,486,687.50	\$287.88	0.57
	Morrisania							
	Emergency Clinic	41	321	3,341.00	209	\$506,375.00	\$2,422.85	0.06
	Empire Outlets	4.0	750	7 000 00		<b>M4 400 000 55</b>	<b>44.07.0</b>	
	Staten Island	46	758	7,220.00	772	\$1,102,300.00	\$1,427.85	0.11
Apr 2022 –	Times Caucas NIVO	40	000	0.005.50	4 000	#4 004 07F 00	Φ <b>7</b> 04 40	0.00
Jun 2022	Times Square NYC	46	929	8,905.50	1,966	\$1,384,975.00	\$704.46	
TOTAL				1,343,535.75	652,533	\$217,842,037.50	\$333.84	0.49

As shown in Table IV, except for services administered at Manhattan Worth Street and Manhattan Chelsea, which had an approximate average of one vaccination per staff hour, the average vaccination rate did not exceed 0.82 vaccinations per staff hour. Overall, on average, 0.49 vaccinations were administered at the 23 fixed/long-term sites per staff hour.

The significant variance in costs among the sampled long-term/fixed testing sites is further illustrated in Chart I below, in which the average cost per test at each site is compared to the average cost of \$405 per test for the eight sites overall. The site that was open for the longest duration (16 months) was at Rikers Island Correctional Facility. This site was for the facility personnel and visitors. DOHMH stated that the duration of the Rikers Island program was set by the Mayor's Office.

Chart I

Average Cost per COVID-19 Test for Sampled Long-Term/Fixed Sites

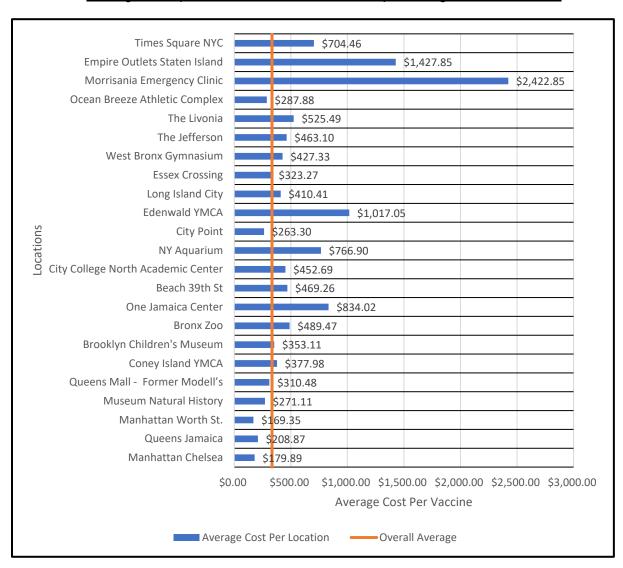


As shown in Chart I, the average cost per test at three long-term/fixed locations—Christopher Blenman NSC, Grant Square NSC, and Hugh Gilroy NSC—was more than twice the overall average cost among all sites. According to DOHMH, these locations are DFTA sites for which the primary clients were older adults, a population with high vulnerability. Consequently, it was important that these sites remained open. Nonetheless, there may have been opportunities to reduce the number of staff that EMS PC utilized at these sites.

The significant variance in costs among the sampled vaccination sites is further illustrated in Chart II below, in which the average cost per vaccination at each site is compared to the average cost of \$334 per vaccination for the 23 sites overall. The vaccination services provided at Morrisania Emergency Clinic were more than seven times the average and almost \$1,000 more than the second highest average cost (\$2,422 versus \$1,427). The average cost was high because the demand for vaccination was very low at Morrisania from March to June 2022 and staffing levels were not adjusted accordingly.

Chart II

Average Cost per COVID-19 Vaccine for Sampled Long-Term/Fixed Sites



According to DOHMH, the three locations (Empire Outlets, Morrisania Emergency Clinic, and Edenwald YMCA) with highest average cost per vaccine were in areas—St. George (in Staten Island), Morrisania (in the Bronx), and Edenwald (in the Bronx), respectively—where residents had high vaccine hesitancy. They also argued that these sites were located in at-risk neighborhoods identified by the TRIE taskforce suffering from a disproportionate impact of

COVID-19. However, as suggested with the DFTA sites mentioned above, there may have been opportunities for EMS PC to reduce the number of staff utilized at these sites. Please refer to Appendices I and II for further analysis of testing and vaccination sites examined during the audit, including the pop-up sites. As noted above, because DOHMH does not collect data distinguishing between support staff and staff administering vaccinations and tests, staff hours recorded in invoices included both categories.

Appendix I shows that the average cost per test was \$250 or more at 91 (55%) of the 164 pop-up sites. At 82 (50%) pop-up sites, an average of one test or less was administered per staff hour.

Appendix II shows that the average cost of administering vaccinations was \$500 or more at two-thirds of the 120 pop-up sites the auditors reviewed. The overall average vaccination rate per staff hour was one or less in 114 (95%) pop-up sites.

DOHMH officials argued, in response to the finding, that the testing and vaccination sites were generally non-traditional, non-clinical sites that were being used for clinical purposes, and therefore needed more staff members, providing services in various roles, than would be needed at a typical clinical setting.

In its response, DOHMH disagreed that the lack of monitoring on its part played a role in this finding, stating that the response to COVID-19 services varied among communities, the pandemic was constantly evolving over the time period reviewed, and activities were affected by circumstances beyond its control or monitoring.

The auditors disagree, based on the existence of significant variances among locations in staffing and persons served over extended periods of time, and the absence of evidence that DOHMH's monitoring led to awareness of such variances or that it took any action to address them.<sup>7</sup>

DOHMH also took exception to the use of judgmental samples in conducting the invoice review. However, the use of judgmental sampling is entirely consistent with the audit standards mandated for use in the City Charter, and moreover, the size of sample was significant, covering \$239.1 million (61%) of the \$389.8 million paid under this contract through March 15, 2023.

The auditors find no basis to amend this finding.

## Significant Portion of Testing and Vaccination Sites Were Placed in Communities Having Significant Black and Hispanic Populations

During the audit DOHMH provided considerable information concerning the methodology it employed in establishing sites. The auditors requested DOHMH to provide the methodology and data used for selecting 30 sampled sites—16 testing sites and 14 vaccination sites. However, DOHMH did not provide the site-specific data that was directly used for the selection of the 30 sampled sites requested and the auditors were not able to assess the extent to which the protocols were followed for 16 sites (8 testing and 8 vaccination). This was largely due to the

<sup>&</sup>lt;sup>7</sup> One example of a site with a low number of vaccinations per staff hour with no evidence of DOHMH's input regarding staffing was Empire Outlets, for which invoices covering the 2 ½ month period of April 14 – June 30, 2022 indicate that, on average, a minimum of 10 staff were daily on staff to vaccinate anywhere from 10-30 clients per day. For this period, an average of 0.11 vaccinations were administered per staff hour paid by DOHMH.

absence of documented decisions. The remaining 14 sites (8 testing and 6 vaccination) were in neighborhoods identified by the TRIE as suffering from a disproportionate impact of COVID-19.

Nonetheless, a review of the locations selected in connection with this contract confirm that a significant proportion of sites were placed in communities that had significant Black and Hispanic representation, aligning with DOHMH's preliminary findings that Black and Hispanic people were disproportionately impacted by COVID-19.

An analysis of the 59 community districts by ethnicity showed that 29 districts had Black and Hispanic households comprising more than half of the population. Testing services were provided in 16 (55%) of those districts and vaccination services were provided in all 29 districts.

Based on the American Community Survey (ACS) 2014–2018 (as reported on the Department of City Planning website), Black and Hispanic households formed the majority of households in 29 (49%) of the City's 59 community districts. Maps showing the proportion of Black and Hispanic households in each district and (1) the 175 testing locations and (2) the 136 vaccination locations operated by EMS PC are shown below in Figures 1 and 2, respectively. As shown, 73 (42%) of the testing sites and 81 (60%) of the vaccination sites were in districts in which Black and Hispanic households made up the majority. According to DOHMH officials, the testing locations designated to serve the surrounding communities were the pop-up sites. The long-term testing locations were generally for the purpose of testing City employees; they did not cover community/ households, omitting the long-term testing sites from the analysis, the percentage breakdowns remained relatively unchanged. Of the 166 pop-up testing locations, 69 (42%) of them were in districts in which Black and Hispanic households made up the majority.

Figure 1: DOHMH-Contracted Testing Sites Operated by EMS PC and Proportion of Black and Hispanic Households by Community District

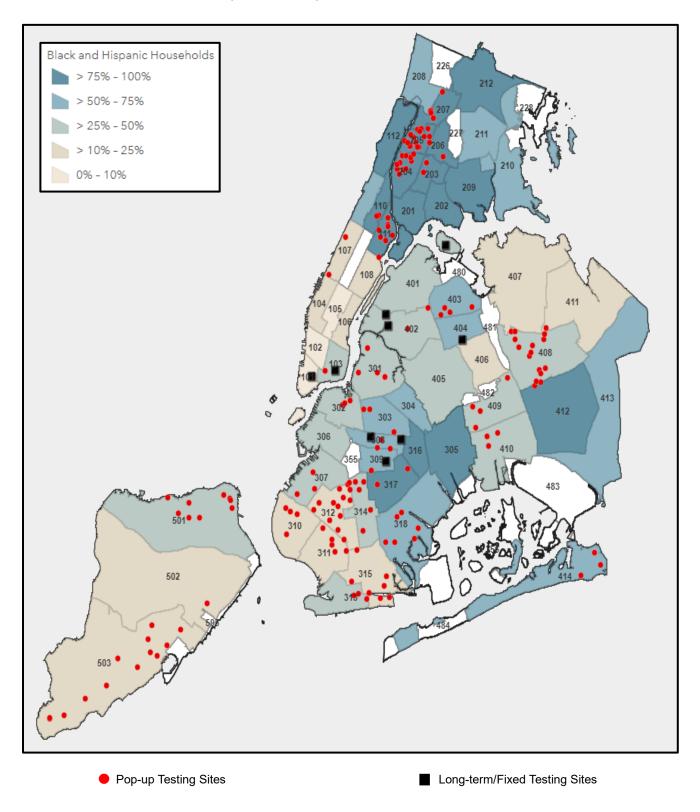
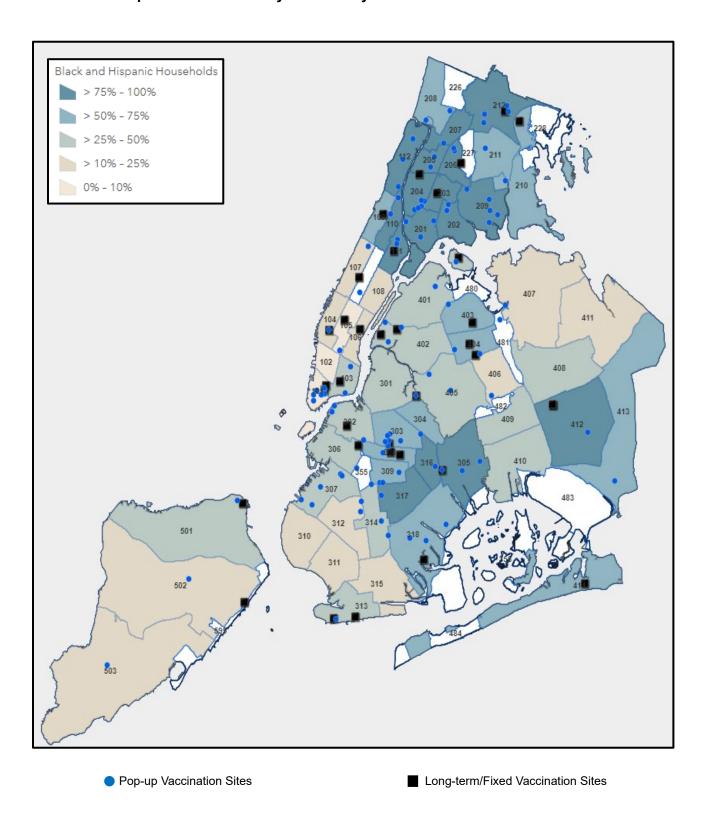


Figure 2: DOHMH-Contracted Vaccination Sites Operated by EMS PC and Proportion of Black and Hispanic Households by Community District



Based on the above, auditors found that a significant percentage of districts with large Black and Hispanic populations were among those in which testing and vaccination sites were located in connection with this contract.

## Protocols for Ensuring Appropriately Supported Payments Were Generally Adequate

The audit found that DOHMH generally had adequate controls over its payments to EMS PC under the emergency contract. However, one of the controls instituted by DOHMH (signoffs of summary reports) was not implemented until seven months into the contract term and was not consistently enforced.

Section 4.3 ("Control Activities") of Comptroller's Directive #1, "Principles of Internal Control," states, "Internal control activities help ensure that management's directives are carried out. They are, basically, the policies, procedures, techniques, and mechanisms used to enforce management's direction." In addition, Section 5.7 ("Segregation of Duties") states that "[k]ey duties and responsibilities need to be divided or segregated among different staff members to reduce the risk of error or fraud."

DOHMH instituted several controls to help ensure that staff were aware of their responsibilities, responsibilities were appropriately segregated and payments were reviewed. Those controls included:

- Written Procedures Governing the Invoice Review Process: DOHMH had three written procedures governing its planning, monitoring, and invoice review processes for COVID-19 testing services provided at congregate residential settings/adult care facilities and community events, and for vaccination services. These documents provided detailed descriptions of the invoice review process and descriptions of the required planning and monitoring of testing and vaccination services.
- Segregation of Duties over the Payment of Invoices: DOHMH's program officials
  responsible for overseeing the testing and vaccination services conducted initial reviews
  and approvals of the invoice-supporting documents submitted by EMS PC. DOHMH's
  COVID Contract Manager or Contract Analyst conducted a secondary review to doublecheck the accuracy of the rates applied and the calculation in the invoice before DOHMH's
  Disease Control Division processed the payments.
- Periodic Invoice Reviews: DOHMH's Fiscal Management Unit within its Finance Division conducted periodic post-payment reviews. As of May 12, 2022, the unit reviewed 18 invoices totaling approximately \$145.7 million. The unit identified 21 instances of duplicate billing and other errors totaling \$133,400 and recouped the funds from EMS PC.

#### **DOHMH Did Not Consistently Sign Off on Summary Reports**

In December 2020, DOHMH began requiring EMS PC to submit daily summary reports to provide additional details about the testing events that EMS PC held. (Vaccination events did not begin until January 2021.) Prior to that date, DOHMH officials did not know the number of EMS PC staff present at congregate or community testing events until DOHMH received the next monthly invoice.

The summary reports established in December 2020 were to include the number of EMS PC staff present and the number of patients tested at community events and adult care facilities. In addition to an EMS PC official, the adult care facility representative also signed the reports to attest to the numbers reported. However, for community events, only EMS PC signed the reports as DOHMH personnel were not always present at the testing sites. For vaccinations administered at fixed and pop-up sites, the report was signed both by EMS PC and DOHMH Team or Regional Leads. This instruction appeared in *DOHMH AP Vaccination Site: Guidance Document*.

This was a useful control measure that was designed to ensure that only services that were provided were reimbursed. Unfortunately, the summary reports for testing services were not established until seven months after the start of the contract, and the reports were not consistently signed off by agency staff to attest to the numbers reported. This raises concerns about whether they were reviewed.

The audit found that 49 (24%) of the 201 reports reviewed lacked the required signature of a DOHMH employee. These reports were used by DOHMH to support payments to EMS PC totaling \$2.3 million. DOHMH stated that a possible reason for a missing signoff was that DOHMH staff and the AP [Affiliated Physicians] Program Manager may have missed each other at the end of a shift, leaving a summary report unsigned. However, DOHMH could not quantify the number of signoffs that were missed for this reason.

The effect of this was that DOHMH did not have independent confirmation of the number of EMS PC staff and hours worked at testing events, prior to making payment. DOHMH paid 12 invoices totaling \$5.4 million for testing services prior to December 2020.

## **Supporting Documents Generally Justified DOHMH Payments**

Apart from the above, the auditors found that DOHMH generally collected adequate information to verify the testing and vaccination services provided by EMS PC. DOHMH obtained the number of COVID-19 testing administered at adult care facilities and community events from independent sources, such as Maven and DOHMH's Incident Command System (ICS) Integrated Data Team.<sup>8</sup>

The auditors reviewed sampled invoices and found that the documents supporting these invoices and DOHMH's review of them were generally adequate. The 10 sampled invoices totaled \$48.9 million—seven for vaccination services (\$46.4 million) and three for testing services (totaling \$2.5 million). 10

<sup>&</sup>lt;sup>8</sup> Maven is DOHMH's Electronic Disease Surveillance System that contains results reported by laboratories about communicable disease and case investigation information collected by DOHMH program staff throughout the agency. <sup>9</sup> During the City's COVID-19 emergency response, DOHMH's Integrated Data Team assisted with the sharing of key COVID-19 data (e.g., hospitalizations, deaths, and test positivity rates) among ICS emergency response teams to help ensure that ICS/DOHMH leadership and external stakeholders had access to accurate and timely COVID-19 data. <sup>10</sup> The auditors found only three minor errors, consisting of two overpayments and one overlap (totaling \$4,125), that were not identified by DOHMH's post-payment review process. DOHMH confirmed that these payments should not have been made and stated on May 8, 2023 that it is in the process recouping these funds from EMS PC and is conducting an independent review to ensure that there are no other remaining overpayments.

## DOHMH Did Not Timely Complete the Required Vendor Performance Evaluation

The auditors found that DOHMH did not complete the vendor performance evaluation for the EMS PC contract within the specified timeframe, as required by the New York City Procurement Policy Board (PPB).

According to Section 4-01(b) of the PPB Rules, the contracting agency is required to conduct an annual performance evaluation, which should be recorded in the City's centralized procurement platform (currently PASSPort).

Auditors reviewed PASSPort and found that although the system created a draft performance evaluation for the initial contract term of the EMS PC contract timely (May 22, 2021, one year after the contract start date), DOHMH did not prepare the evaluation until July 22, 2022, more than a year after the PPB Rules required that it be completed. According to the PASSPort evaluation document, the evaluation end date was June 21, 2021.

DOHMH officials stated that "[d]ue to COVID-19, the PE [performance evaluation] was not created and assigned to an evaluator until 2022."Furthermore, DOHMH did not complete the 2021–2022 performance evaluation until February 28, 2023, more than eight months after the required completion date. The timely recording of performance evaluations in PASSPort assists other City agencies by providing information on vendors that other agencies are considering for the award of new contracts.

#### RECOMMENDATIONS

To address the above-mentioned findings, the auditors propose that for future contracts, DOHMH should:

1. Develop and implement an effective and standardized process for assessing and setting appropriate staffing levels that are commensurate with demand, and document the results of these efforts.

**DOHMH Response:** DOHMH agreed with this recommendation.

2. Conduct regular cost analyses after the initial stage of contract implementation, including—when feasible—comparisons to other providers of the same services to continuously monitor and adjust for efficiency.

**DOHMH Response:** DOHMH agreed with this recommendation.

3. Ensure that all verification documents (e.g., summary reports) include appropriate agency certification that the services claimed by the contractor were provided.

**DOHMH Response:** "The Health Department believes that this recommendation is not needed because a receiving report process is already in place."

**Auditor Comment:** DOHMH previously indicated that its receiving report process does not include a verification that the number of staff reported by EMS PC on its invoices was accurate. During the audit period, auditors found that almost a quarter (24%) of the summary reports—intended to independently confirm the number of staff and provided services as reported in EMS PC's invoices—were not properly certified by designated personnel. The auditors urge DOHMH to reconsider its position and implement the recommendation.

4. Ensure that it formally documents key decisions regarding site selections, including reasons for opening a site, its duration, and the closing of a site.

**DOHMH Response:** "The Health Department disagrees with this recommendation as it is not needed. As stated above, the COVID-19 pandemic response was a collaborative effort. Key protocols and mechanisms were in place to deal with decisions surrounding testing and vaccination sites."

**Auditor Comment:** Formally documenting key decisions provides a level of transparency to stakeholders and facilitates subsequent reviews of those decisions and their impact. The auditors continue to recommend that key decisions such as these on future contracts be formally documented.

5. Ensure that required vendor performance evaluations are completed in PASSPort at least once annually.

**DOHMH Response:** DOHMH agreed with this recommendation.

#### **Recommendations Follow-up**

Follow-up will be conducted periodically to determine the implementation status of each recommendation contained in this report. Agency reported status updates are included in the Audit Recommendations Tracker available here: https://comptroller.nyc.gov/services/for-the-public/audit/audit-recommendations-tracker/

#### **SCOPE AND METHODOLOGY**

We conducted this performance audit in accordance with Generally Accepted Government Auditing Standards (GAGAS). GAGAS requires that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions within the context of our audit objectives. This audit was conducted in accordance with the audit responsibilities of the City Comptroller as set forth in Chapter 5, §93, of the New York City Charter.

The primary audit scope was May 22, 2020 to December 31, 2022.

To obtain an understanding of the policies, procedures, and regulations governing the testing and vaccination services provided by EMS PC, the auditors reviewed and used as criteria:

- Original contract agreement between DOHMH and EMS PC and subsequent amendments;
- DOHMH Planning, Monitoring, and Invoice Review for Community Testing Services;
- Congregate Settings Investigation and Response Unit (CSIRU) Invoice Review and Approval Process;
- Disease Control Division Management & Systems Coordination (DMSC) Invoice Review and Approval Process;
- DOHMH planning, monitoring, and invoice review of Executive Medical Services (EMS), Specimen Collection & Diagnostics in Congregate Residential Settings;
- COVID-19 Vaccination Services: DOHMH Planning, Monitoring, and Invoice Review;
- DOHMH-AP Vaccination Site: Guidance Document;
- Centers for Disease Control (CDC) COVID-19 Vaccination Program Interim Operational Guidance Jurisdiction Operations;
- CDC COVID-19 Vaccination Program Interim Playbook for Jurisdictions Operations Annex: and
- DOHMH Interim COVID-19 Vaccination Plan Executive Summary.

The auditors reviewed the NYC Office of the Comptroller's Internal Control and Accountability Directive #1, "Principles of Internal Control," to understand key internal controls and processes integral to an agency's achieving its mission and assuring full accountability for its resources, including processes used by agency management to provide reasonable assurance regarding the achievement of objectives, efficiency of operations, and compliance with applicable laws and regulations.

The auditors also reviewed samples of the following documents to obtain a further understanding of the information available to DOHMH personnel who monitor the provided testing and vaccination services:

- Summary Reports submitted from EMS PC to DOHMH after each day of a testing and vaccination event starting in December 2020;
- AP Test Tracking schedule;
- NYC Daily Track Report containing daily information on vaccination appointments scheduled and doses administered submitted daily by EMS PC and containing legacy data prior to implementation of Salesforce;
- Salesforce reports of daily COVID-19 vaccination doses administered starting in April 2021 and fully adopted in May 2021;

- NYC calendar grid of scheduled COVID-19 vaccination appointments;
- AP Maven Test Count Report ACF;
- CORP Taskforce Program Update: 11220;
- Invoice supporting schedule;
- AP Point Prevalence Survey (PPS) schedule, used to help plan the anticipated number of residents to be tested at an adult care facility and the necessary number of nurses for EMS PC to bring; and
- Vaccination clinic floor plans identifying clinic patient flow and staff distribution.

The auditors reviewed the following documents associated with DOHMH's decision to select EMS PC as a vendor to provide COVID-19 testing and vaccination services:

- Request for Quote for mobile vaccination teams and related addenda;
- Request for Quote: Community vaccination contractors for the 2019 novel coronavirus (2019-nCoV) emergency response and the response form completed by EMS PC's response;
- Community Vaccinator Vendor Contact List;
- Vaccination Response Form completed by 4 vendors; and
- Specimen collection Response Form for emergency purchase: In home specimen collection and transport, completed by EMS PC.

To obtain an understanding of the reimbursement process for federal emergency funds expended by the City, the auditors reviewed the *Public Assistance Program and Policy Guide Version 4* (effective June 1, 2020) and samples of the following documents necessary to obtain a reimbursement of state and federal COVID-19 assistance funding:

- CDC ELC Enhancing Detection Monthly Financial Report;
- Health & Human Services (HHS) Annual Federal Financial Report;
- NYC ELC Cares Budget Template; and
- Supplemental IP19-1901 Enhanced Influenza Campaign and COVID 19 Vaccine Response Preparation Budget Narrative.

To obtain an understanding of DOHMH's payment process for the COVID-19 testing and vaccination services provided by EMS PC, the auditors selected and reviewed one invoice package for testing services provided in August 2020 (totaling \$1.2 million) and one package for vaccination services provided in April 2021 (totaling \$4.8 million). The packages included the invoice, the supporting schedule, and a receiving report.

To obtain an understanding of the controls that were relevant to the audit and to help achieve the audit's objectives, the auditors interviewed relevant DOHMH personnel to learn about the planning, monitoring, invoice review, and approval processes of testing and vaccination services provided by EMS PC under the emergency contract. The auditors also interviewed DOHMH officials involved with the oversight of testing and vaccination services and periodic assessments of staffing levels, establishing the emergency contract with EMS PC, and preparing and submitting requests for reimbursement of state and federal COVID-19 related funding. To understand DOHMH's process of selecting and monitoring testing and vaccination sites, the auditors judgmentally selected three adult care facility testing sites, three community testing event sites, and three vaccination sites and discussed the selection and monitoring processes followed by DOHMH's program officials. Auditors also interviewed the following DOHMH personnel:

- SARS-CoV-2 Testing Team Lead (for adult care facilities testing);
- COVID Project Manager;
- Congregate Settings SARS-CoV2 Testing Coordinator;

- COVID Contract Manager;
- Contract Analyst;
- CRS IV-A, DMSC (for CE testing);
- Assistant Commissioner, Disease Control Division Management and Systems Coordination (DMSC);
- Financial & Operations Lead (for vaccination);
- Chief Operating Officer/Executive Deputy Commissioner (for vaccination);
- COVID Data Analyst:
- Senior Director of Cross Bureau Collaboration, DMSC;
- Director of Adult and Clinical Services:
- Deputy Commissioner, Disease Control;
- Assistant Commissioner, Internal Control and Audit;
- Assistant Commissioner, Bureau of Vaccination;
- Director of Information Strategy;
- ACCO/Assistant Commissioner;
- Executive Director, Revenue; and
- Executive Director, Budget Administration.

The auditors received a list of 51 payments made to EMS PC by DOHMH as of January 13, 2022, generated from the City's Financial Management System (FMS). The payments were for the services provided by EMS PC during the period May 2020 to November 2021 under emergency contract for the total amount of \$227.6 million. To determine the completeness and accuracy of the DOHMH-provided payment list, the auditors generated an independent payment report for this contract from FMS and compared the two lists.

To determine whether DOHMH had adequate controls to ensure that payments to EMS PC were for allowable expenditures and adequately supported, and that personnel resources utilized by EMS PC were commensurate with demand, auditors selected a sample of 10 invoices totaling \$48.9 million from the total population of 51 payments made as of January 13, 2022. In addition to the previously mentioned two invoices selected (August 2020 for testing and April 2021 for vaccination), auditors selected and requested all testing-related invoices for September 2020 and April 2021, and all vaccination-related invoices for April and May 2021. Eight additional invoices totaling \$42.9 million were provided—\$1.3 million for two testing invoices and \$41.6 million for six vaccination invoices. The auditors judgmentally selected all invoices for testing services provided by EMS PC in August 2020, September 2020, and April 2021 because they believed DOHMH's controls over testing should have been established by then, since the EMS PC contract went into effect in May 2020. There were three invoices associated with the testing conducted in the three sampled months totaling \$2.5 million. 11 Similarly, the auditors judgmentally selected all invoices for vaccination services provided by EMS PC in April and May 2021 because they believed DOHMH's controls over vaccination should have been established by then since EMS PC started administering COVID-19 vaccinations in January 2021. There were seven invoices for vaccination services for the two sampled months totaling \$46.4 million.

DOHMH required EMS PC to submit a detailed supporting document (Excel file) with its monthly invoice submission. The Excel file had three tabs:

1. "Program Summary," which included lists test/vaccination sites broken down by date, the number of staff assigned at each site (labeled RNs), site hours, and the number of patients tested/vaccinated per day at each site. Based on these, the total staffing cost and total

<sup>&</sup>lt;sup>11</sup> Included in this amount was \$7,275 for training and providing results of the tests only.

- specimen collection and lab processing cost (\$165 per specimen collected) or vaccination administration cost (\$25 per patient) is calculated in the worksheet;
- 2. "Pt Vaccination Detail," which included a list of sites, the unique patient ID number that received testing or vaccination each day, and the type of test/vaccination administered; and
- 3. "Staff Detail," which included a list of staff names assigned at each site, each day, and details of the hours worked by each staff member.

From December 8, 2020, DOHMH also established the practice that EMS PC submit summary reports daily to DOHMH documenting the number of EMS PC staff present at the site and the number of patients tested or vaccinated. For testing events at adult care facilities, EMS PC submitted a summary report and a NYC ACF Time and Event Summary, later of which was signed by the adult care facility contact person. EMS PC also submitted summary reports daily for community testing and vaccination events. Summary Reports for vaccination events were signed by DOHMH employees present at the events to verify the numbers recorded in the report. To determine whether the payments made for the sampled 10 invoices (three for testing services and seven for vaccination services) were for allowable expenditures and adequately supported, auditors reviewed the invoice support document and performed the following steps:

- Verified that all patient and staffing totals for testing and vaccination were correctly
  calculated and the correct rate applied on the Program Summary tab and matched all the
  totals to invoice totals.
- Verified the numbers of EMS PC staff reported on the Program Summary tabs by matching those numbers to the EMS PC staff listed in the Staff Detail tabs.
- Verified the number of patients tested/vaccinated reported on the Program Summary tabs by matching those numbers to the unique patient ID numbers recorded each day for each testing/vaccination site listed in the Patient Detail tabs.
- Verified the patient data in the Patient Detail tabs by applying a formula to determine that there were no duplicate patient ID number reported by EMS PC.
- Sorted the staff names provided in the Staff Detail tab by name and date to determine whether EMS PC billed for duplicate shifts, overlapping shifts, or same staff at multiple locations at the same timeslot.
- Verified the number of patients reported on the Program Summary tabs of community event invoice to the number of daily tests reported in DOHMH's Task Force's (CORP) program update.
- Verified the number of patients reported on the Program Summary tabs of community event invoice to the number of daily tests recorded in DOHMH's internal tracker schedule.
- Reviewed all summary reports for community testing events and testing at adult care facilities associated with one invoice for services provided in April 2021 to verify the number of EMS PC staff and patients tested for COVID-19 billed. For testing at adult care facilities, we also reviewed NYC ACF Time and Event Summaries to verify the presence of required signature of the adult care facility contact person.
- Reviewed all summary reports associated with two invoices for vaccination services provided in April and May 2021 to verify the number of EMS PC staff and patients vaccinated for COVID-19 billed and to verify the presence of required signature of a DOHMH on the summaries.

 Compared the number of patients billed for vaccination to the NYC Daily Track Report and DoITT (Department of Information Technology and Telecommunications) Salesforce, which are programs and platforms to monitor vaccination services, to verify the accuracy of the numbers.

The auditors sent the list of discrepancies found during the audit's review to DOHMH for its review and feedback.

To determine whether personnel resources utilized by EMS PC were commensurate with demand to protect against waste, the auditors calculated the average number of tests and vaccinations administered per staff hour billed by EMS PC and determined the average dollar amount spent for each COVID-19 test and vaccination administered each day as billed by EMS PC. For adult care facilities, the auditors also compared the number of tests administered at each facility to the number of patients and staff that were anticipated to be tested according to the AP PPS schedule, to determine whether staffing levels were appropriately planned compared to anticipated demand.

To better assess whether EMS PC's utilization of personnel resources was commensurate with demand over time, the auditors judgmentally selected six long-term testing sites and four fixed vaccination sites and requested all associated invoices and supporting documents for the sites for the complete duration of the event or until June 30, 2022, whichever was sooner. There were 20 additional invoices and supporting documents for the selected six testing sites and 19 additional invoices and supporting documents for the selected four vaccination sites provided. The auditors calculated the weekly average costs of testing and vaccination in these 10 sites to determine whether personnel resources were used efficiently.

To understand the composition of staffing at the four vaccination sites and to determine the productivity rates at those locations, auditors requested the floor plans associated with the sites; they did not request the floor plan for one of the vaccination sites since it was not under DOHMH's control. The DOHMH floor plan is a schematic diagram of the lay-out of a vaccination site. It identified the numbers and placing of the registration and vaccination stations, observation area and the placing of floor monitors.

For the 49 invoices and supporting documents reviewed (10 from the initial sample and 39 additional invoices mentioned above), the auditors extracted the data on the total staff present, staff hours utilized, patients tested or vaccinated, and the total amount paid to EMS PC for those events that the complete billing information was available (up to June 30, 2022) and consisted of 53 testing events at adult care facilities, eight long-term/fixed community testing sites, 164 popup testing sites, 23 long-term/fixed vaccination sites, and 120 pop-up vaccination sites. To determine the efficiency and cost of administering tests and vaccinations at each event, the auditors calculated the overall average rate of administering COVID-19 test and vaccination.

The auditors reviewed DOHMH's evaluation of EMS PC's contract in PASSPort (a vendor portal for NYC government contractors) and the supporting documents for the evaluation to confirm that DOHMH submitted the required evaluation within established timeframes and to obtain an understanding of DOHMH's vendor performance evaluation process.

To review how DOHMH's community-based testing and vaccination sites were distributed throughout the five boroughs, the auditors mapped all of DOHMH's community-based testing and vaccination sites operated by EMS PC in the borough maps using ArcGIS online mapping software. For testing, there were nine long-term sites (providing testing services from 2 to 16 months) and 166 short-term or pop-up events that lasted from one day to three weeks to provide

COVID-19 testing. For vaccination, there were 36 fixed locations and 101 short-term or pop-up events to provide COVID-19 vaccination. <sup>12</sup> The auditors extracted the information on Race & Hispanic Origin from American Community Survey 2014–2018 data by community districts posted on the DCP website and determined whether COVID-19 testing and vaccination sites were established in community districts where the majority household makeup was Black and Hispanic, which is the city resident population that DOHMH's preliminary COVID-19 surveillance data found were disproportionately affected by COVID-19.

To understand the decision-making process for establishing COVID-19 testing and vaccination sites, the auditors reviewed the COVID-19 Organizing Response Plan (CORP) Taskforce Planning Overview, NYC DOHMH Interim COVID-19 Vaccination Plan – Executive Summary, and DOHMH narrative. The auditors randomly selected 30 sites (16 testing and 14 vaccination) serviced by EMS PC and requested DOHMH to provide the basis to establish these sites and any supporting documentation used in selecting a location for an event.

The results of the above tests, while not projectable to their respective populations whenever a sample was used, provided a reasonable basis for the auditors to evaluate whether DOHMH had adequate controls to ensure that payments to the vendor were for allowable expenditures and adequately supported, and that personnel resources utilized by the vendor were commensurate with demand to protect against waste.

<sup>&</sup>lt;sup>12</sup> There were 36 fixed locations for vaccination. One location in the Bronx (at Morrisania Emergency Clinic) was used twice as a fixed clinic, 11 months apart. As a result, we counted 36 fixed locations for vaccination. However, only 35 fixed locations are visible on our maps.

## **APPENDIX I**

## <u>List of Sampled Long-Term/Fixed and Pop-up Testing Sites: Total Amount Paid and Auditor's Calculated Average Cost per Test & Average Number of Tests Administered Per Staff Hour</u>

								Auditors'	Calculations
			Total #		Total # of	Total # of		Average	Average # of
			of	Total #	Staff	Patients	Total Billed	Cost Per	Tests Per
#	Event	Location Name	Event	of	Hours	Serviced	Amount C	Test C / B	Staff Hour
	Dates	Location Name	Days	Staff	Α	В	C	C/B	B/A
	g-Term/Fixed	a Sites							ı
4	Sep 2020 - Jan 2021	City Hall	17	62	190	715	¢144.265.00	\$201.77	3.76
	Jan 2021	City Hall Rikers Island Correctional	17	02	190	7 15	\$144,265.00	\$201.7 <i>1</i>	3.70
		Facility &							
	Nov 2020 -	VCBC-Vernon C Bain Visitor							
	Feb 2022	Center	265	3,314	50,096.25	32,113	\$12,744,982.50	\$396.88	0.64
	Dec 2020 -	DFTA-FGC - Christopher		0,011	00,000.20	02,110	ψ·=,· · ·,σσ=:σσ	<del>+ + + + + + + + + + + + + + + + + + + </del>	0.0 .
3		Blenman NSC	16	85	777.5	151	\$141,540.00	\$937.35	0.19
	Dec 2020 -	DFTA-FGC - Grant Square						-	
4		NSC	16	80	707.5	164	\$133,185.00	\$812.10	0.23
		DFTA-FGC- Hugh Gilroy							
5	Feb 2021	NSC	16	86	786	178	\$147,270.00	\$827.36	0.23
	Dec 2021 -							_	
6	Jan 2022	Gotham- LIC	23	391	3,910	2,408	\$983,820.00	\$408.56	0.62
_	Feb 2021-	Catholic Charities Grand		404	4 000	050	40.47.070.00	<b>#</b> 400 00	0.47
	May 2021	Street Guild	37	164	1,392	658	\$317,370.00	\$482.33	0.47
0	Jan 2022-	Factory 30 30 47th Ave	19	223	1 000	701	¢442 665 00	¢500 60	0.35
	Feb 2022 Subtotal	Factory - 30-30 47th Ave	19	223	1,980 <b>59,839.25</b>	701 <b>37,088</b>	\$412,665.00 <b>\$15,025,097.50</b>	\$588.68 <b>\$405.12</b>	
	-Up Sites				59,639.25	37,000	\$15,025,057.50	\$405.1Z	0.62
		PS 506 School of							
	14, 2020	Journalism & Tech	13	328	3804	3708	\$941,400.00	\$253.88	0.97
	, _====	DOH - DOH Brooklyn		020		0.00	ψο , . σο . σο	<b>\$200.00</b>	0.07
2	9/17/2020	Dormitory	1	14	98	200	\$34,700.00	\$173.50	2.04
3	9/25/2020	FDR High School	1	4	20	107	\$13,700.00	\$128.04	
4	9/25/2020	PS164 Caesar Rodney	1	4	16	71	\$9,500.00	\$133.80	
5	9/29/2020	T1 and T2: CoopTech	1	11	99	75	\$22,350.00	\$298.00	0.76
		T3: PS 238 Anne Sullivan						_	
	9/29/2020	and P231k	1	5	45	44	\$11,150.00		
7	9/30/2020	Brooklyn Navy Yard	1	1	5	22	\$2,950.00	\$134.09	4.40
	0/00/0000	IS 219 New venture School			40	40	<b>#</b> 4.000.00	#000.00	4.40
	9/30/2020	- T4	1	4	16	19	\$4,300.00	\$226.32	
9	9/30/2020	PS 099 Kew Gardens	1	4	20	19	\$4,900.00	\$257.89	0.95
10	9/30/2020	T1: Edward R. Murrow High School	1	5	45	121	\$18,850.00	\$155.79	2.69
	9/30/2020	T2: PS 247 Brooklyn	1		20		\$7,400.00	\$168.18	
- 11	9/30/2020	T2: PS197 The Ocean		3	20	44	φ1,400.00	φ100.10	2.20
12	9/30/2020	School	1	5	25	33	\$7,050.00	\$213.64	1.32
12	3/00/2020	T3: PS192 - The Magnet		J	20		ψ1,000.00	Ψ210.04	1.02
		School for Math and							
13	9/30/2020	Science Inquiry	1	5	45	103	\$17,050.00	\$165.53	2.29
		T1: PS 130 Brooklyn	1	5	20	100	\$19,500.00	\$195.00	
	10/1/2020	T1: PS 179 Brooklyn	1	5	25	59	\$13,485.00		
	10/1/2020	T2: PS 152	1	5	25	48	\$11,670.00		
	10/1/2020	T2: IS 223 Brooklyn	1	5	20		\$11,085.00		
18	10/1/2020	T3: PS 177 Brooklyn	1	5	25	36	\$9,690.00	\$269.17	1.44

				Auditors'	Calculations				
			Total #		Total # of	Total # of		Average	Average # of
			of	Total #	Staff	Patients	Total Billed	Cost Per	Tests Per
	Event		Event	of	Hours	Serviced	Amount	Test	Staff Hour
#	Dates	Location Name	Days	Staff	Α	В	С	C/B	B/A
	10/1/2020	T3: PS 226 Brooklyn	1	5	20	39	\$9,435.00	\$241.92	1.95
	10/2/2020	T1: Midwood High School	1	5	25	90	\$18,600.00	\$206.67	3.60
21	10/2/2020	T1: PS 181 Brooklyn	1	5	20	54	\$11,910.00	\$220.56	2.70
	10/2/2020	T2: John Bowne High							
22	10/2/2020	School	1	5	20	64	\$13,560.00	\$211.88	3.20
	10/2/2020	T2: Townsend Harris High							
23		School	1	5	25	39	\$10,185.00	\$261.15	1.56
	10/2/2020	T3: PS 253 Queens	1	5	20	35	\$8,775.00	\$250.71	1.75
25	10/2/2020	T3: PS 43 Queens	1	5	25	27	\$8,205.00	\$303.89	1.08
	10/2/2020	T4: K667 Sunset Park High							
26		School	1	3	15	50	\$10,500.00	\$210.00	3.33
	10/2/2020	T4:PS 216 Arturo Toscanini	1	3	12	45	\$9,225.00	\$205.00	3.75
	10/5/2020	T1: IS 227 Brooklyn	1	5	25	57	\$13,155.00	\$230.79	2.28
	10/5/2020	T1: PS 160 Brooklyn	1	5	20	37	\$9,105.00	\$246.08	1.85
30	10/5/2020	T2: IS 2 Brooklyn	1	5	25	21	\$7,215.00	\$343.57	0.84
31	10/5/2020	T2: PS 105 Brooklyn	1	4	16	58	\$11,970.00	\$206.38	3.63
	10/5/2020	T3: PS 165 Queens	1	5	20	19	\$6,135.00	\$322.89	0.95
	10/5/2020	T3: PS/IS 499 Queens	1	5	25	23	\$7,545.00	\$328.04	0.92
	10/5/2020	T4: IS 96 Brooklyn	1	5	20	34	\$8,610.00	\$253.24	1.70
	10/5/2020	T4: PS 205 Brooklyn	1	5	25	49	\$11,835.00	\$241.53	1.96
	10/6/2020	T1: PS 230 Brooklyn	1	5	20	54	\$11,910.00	\$220.56	2.70
	10/6/2020	T1: PS 338 Brooklyn	1	5	25	66	\$14,640.00	\$221.82	2.64
37		T2: Brooklyn College	<u>'</u>		20	00	ψ14,040.00	ΨΖΖ 1.02	2.04
38	10/6/2020	Academy - Bridges to K	1	5	25	35	\$9,525.00	\$272.14	1.40
	10/6/2020	T2: IS 62 Brooklyn	1	5	20	100	\$19,500.00	\$195.00	5.00
	10/6/2020	T3: PS 207 Brooklyn	1	5	25	58	\$13,320.00	\$229.66	2.32
	10/6/2020		1	5	20	75			
		T3: PS 222 Brooklyn	1	5	25	44	\$15,375.00	\$205.00 \$250.23	3.75
	10/6/2020	T4: PS 236 Brooklyn					\$11,010.00		1.76
	10/6/2020	T4: PS 312 Brooklyn	1	5	20	76	\$15,540.00	\$204.47	3.80
	10/7/2020	T1: IS 98 Brooklyn	1	5	20	10	\$4,650.00	\$465.00	0.50
	10/7/2020	T1: PS 225 Brooklyn	1	5	25	47	\$11,505.00	\$244.79	1.88
	10/7/2020	T2: Abraham Lincoln	1	5	25	35	\$9,525.00	\$272.14	1.40
	10/7/2020	T2: IS 14 Brooklyn	1	5	20	17	\$5,805.00	\$341.47	0.85
	10/7/2020	T3: PS 163	1	5	15	43	\$9,345.00	\$217.33	2.87
	10/7/2020	T3: PS 173 Queens	1	5	30	75	\$16,875.00	\$225.00	2.50
50	10/7/2020	T4: PS 52 Brooklyn	1	5	25	42	\$10,680.00	\$254.29	1.68
	10/7/2020	T4: William E. Grady HS -							
51		Brooklyn	1	5	20	36	\$8,940.00	\$248.33	1.80
	10/8/2020	T1: Francis Lewis HS	1	5	25	82	\$17,280.00	\$210.73	3.28
	Oct 8 & 13,							_	
	2020	T3: Leon Goldstein HS	2	9	36	70	\$16,950.00	\$242.14	1.94
	10/8/2020	T5: PS 132 Brooklyn	1	5	20	60	\$12,900.00	\$215.00	
55	10/8/2020	T5: PS 84 Brooklyn	1	5	25	66	\$14,640.00	\$221.82	2.64
	10/9/2020	T2: Boys and Girls HS			<u> </u>				
20		Brooklyn	1	5	20	21	\$6,465.00	\$307.86	1.05
57	10/9/2020	T2: PS 195 Brooklyn	1	5	25	31	\$8,865.00	\$285.97	1.24
	10/9/2020	T4: 182 Queens	1	5	20	70	\$14,550.00	\$207.86	3.50
	10/9/2020	T4: PS-IS 314 219 Queens	1	5	25	41	\$10,515.00	\$256.46	1.64
	10/9/2020	T5: PS 167	1	5	25	55	\$12,825.00	\$233.18	2.20
	10/9/2020	T5: PS 289 Brooklyn	1	5	20	18	\$5,970.00	\$331.67	0.90
	10/13/2020	T1: Erasmus Hall Campus	1	4	16	19	\$5,535.00	\$291.32	1.19
	10/13/2020	T3: JHS 168 Queens	1	4	20	50	\$11,250.00	\$225.00	2.50
	10/13/2020	T3: PS 154 Queens	1	4	16		\$7,185.00	\$247.76	1.81
	10/13/2020	T4: PS 131 Queens	1	4	20	3	\$3,495.00		0.15
บอ	10/13/2020	14. FO 131 QUEETIS	<u> </u>	4	20	3	<b></b> და,495.00	φ1,100.00	0.15

								Auditors'	Calculations
	Event		Total # of Event	Total #	Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Average Cost Per Test	Average # of Tests Per Staff Hour
#	Dates	Location Name	Days	Staff	Α	В	С	C/B	B/A
66	10/13/2020	T4: Thomas A. Edison	1	4	16	32	\$7,680.00	\$240.00	2.00
	10/14/2020	T1: Tottenville - Staten							
07		Island	1	5	40	27	\$10,455.00	\$387.22	0.68
	10/14/2020	T2: PS 251 Brooklyn	1	4	20	8	\$4,320.00	\$540.00	
	10/14/2020	T2: PS 326 Brooklyn	1	4	16	16	\$5,040.00	\$315.00	
	10/14/2020	T3: PS 200 Queens	1	4	20	8	\$4,320.00	\$540.00	0.40
	10/14/2020	T4: Hillcrest High School	1	4	20	26	\$7,290.00	\$280.38	1.30
	10/14/2020	T4: JHS 216 Queens	1	4	16	39	\$8,835.00	\$226.54	2.44
	10/15/2020	T1: IS 265 Brooklyn	1	4	16 20	13	\$4,545.00	\$349.62	0.81
	10/15/2020 10/15/2020	T1: PS 67 Brooklyn T2: IS 117 Brooklyn	1	4	20	25 19	\$7,125.00 \$6,135.00	\$285.00 \$322.89	1.25 0.95
	10/15/2020	T2: PS 54 Brooklyn	1	4	16	26	\$6,690.00	\$257.31	1.63
	10/15/2020	T3: PS 245 Brooklyn	1	4	20	11	\$4,815.00	\$437.73	0.55
	10/15/2020	T3: PS 249 Brooklyn	1	4	16	50	\$10,650.00	\$213.00	3.13
	10/16/2020	T1: Jamaica High School	1	4	20	35	\$8,775.00	\$250.71	1.75
	10/16/2020	T2: Grand Street Campus	1	4	20	38	\$9,270.00	\$243.95	
	10/19/2020	T1: IS 34 Staten Island	1	5	25	30	\$8,700.00	\$290.00	1.20
	10/19/2020	T1: PS 6 Staten Island	1	5	20	27	\$7,455.00	\$276.11	1.35
	10/19/2020	T2: IS 117 Bronx	1	5	20	17	\$5,805.00	\$341.47	0.85
84	10/19/2020	T2: IS 232 Bronx	1	5	25	18	\$6,720.00	\$373.33	0.72
	10/20/2020	T1: Dewitt Clinton HS	1	5	25	53	\$12,495.00	\$235.75	2.12
	10/20/2020	T1: PS 15 Bronx	1	5	20	0	\$3,000.00	\$0.00	0.00
	10/20/2020	T2: Walton HS	1	5	45	53	\$15,495.00	\$292.36	
	10/20/2020	T3: PS 32 Staten Island	1	4	16	20	\$5,700.00	\$285.00	1.25
	10/20/2020	T3: PS 37 Staten Island	1	4	20	42	\$9,930.00	\$236.43	2.10
	10/20/2020	T4: PS 53 Staten Island	1	4	16	9	\$3,885.00	\$431.67	0.56
	10/20/2020	T4: PS 8 Staten Island	1	4	20	15	\$5,475.00	\$365.00	0.75
	10/21/2020	T1: IS 27 Staten Island	1	4	20	28	\$7,620.00	\$272.14	1.40
	10/21/2020	T1: PS 18 Staten Island	1	4	16 16	14 51	\$4,710.00	\$336.43	
	10/21/2020 10/21/2020	T2: PS 19 Staten Island T2: PS 45 Staten Island	1	4 5	25	41	\$10,815.00 \$10,515.00	\$212.06 \$256.46	3.19 1.64
		T3: DOE New Settlement	I	5	25	41	\$10,515.00	\$230.40	1.04
96	10/21/2020	Community Campus	1	5	20	54	\$11,910.00	\$220.56	2.70
•	10/21/2020	T3: PS 64 Bronx	1	5	25	24	\$7,710.00	\$321.25	
	Oct 21 & 28,	Te. i e e i Brenz	·	J			ψ1,110.00	Ψ021.20	0.00
	2020	T4: PS 396 Bronx	2	10	65	39	\$16,185.00	\$415.00	0.60
	10/22/2020	T1: Morris Heights					. ,	·	
99	10/22/2020	Educational Complex	1	5	20	53	\$11,745.00	\$221.60	
100	10/22/2020	T1: PS 79 Bronx	1	5	25	26	\$8,040.00	\$309.23	
	10/22/2020	T2: IS 24 Staten Island	1	5	20	51	\$11,415.00	\$223.82	
	10/22/2020	T2: PS 1 Staten Island	1	4	20	26	\$7,290.00	\$280.38	
	10/22/2020	T3: PS 230/IS 229 Bronx	1	4	16	19	\$5,535.00	\$291.32	
	10/22/2020	T4: PS 236 Bronx	1	6	24	25	\$7,725.00	\$309.00	
	10/22/2020	T4: PS 306 Bronx	1	5	25	27	\$8,205.00	\$303.89	
	10/23/2020	T1: PS 114 Bronx	1	5	20	3	\$3,495.00	\$1,165.00	
	10/23/2020	T1: PS 73 Bronx	1	5	25	32	\$9,030.00	\$282.19	
	10/23/2020 Oct 23 & 27,	T2: IS 399 Bronx	1	5	25	26	\$8,040.00	\$309.23	1.04
	2020	T2: PS/IS 218 Bronx	2	10	40	81	\$19,365.00	\$239.07	2.03
	10/23/2020	T3: PS 11 Bronx	1	5	20	44	\$10,260.00	\$233.18	
	10/23/2020	T3: PS 86 Annex Bronx	1	5	25	44	\$10,200.00	\$250.23	
	10/25/2020	Our Lady of Angels Church	1	8	56	92	\$13,867.00	\$150.73	
112		T1: Pre-K Center at Ogden	<u>'</u>	3	50	32	ψ10,007.00	ψ100.70	1.04
113	10/26/2020	Ave	1	6	30	10	\$6,150.00	\$615.00	0.33

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#	Dates	Location Name	Days	Staff	A	B	C	C/B	B/A
	10/26/2020	T1: PS 199 Bronx	1	5	20	25	\$7,125.00	\$285.00	
	10/26/2020	T2: PS 126 Bronx	1	5	20	40	\$9,600.00	\$240.00	
	10/26/2020	T2: PS 170 Bronx	1	5	25	56	\$12,990.00		
	10/26/2020	T3: PS 109 Bronx	1	5	20	12	\$4,980.00	\$415.00	
	.0,20,202	T1: Highbridge					ψ 1,000.00	ψσ.σσ	0.00
		Environmental Education							
118	10/27/2020	Campus	1	5	25	46	\$11,340.00	\$246.52	1.84
	10/27/2020	T1: PS 91 Bronx	1	5	20	37	\$9,105.00	\$246.08	
	10/27/2020	T2: PS 246 Bronx	1	5	20	45	\$10,425.00	\$231.67	2.25
	10/27/2020	T2: PS 340 Bronx	1	4	20	42	\$9,930.00	\$236.43	
	10/27/2020	T3: IS 206B Bronx	1	5	25	2	\$4,080.00		
	10/28/2020	T1: PS 060 Woodhaven	1	5	25	81	\$17,115.00	\$211.30	
	10/28/2020	T1: PS 097 - Forest Park	1	5	20	59	\$12,735.00	\$215.85	
	10/28/2020	T2: PS 069 Jackson Heights	1	5	20	65	\$13,725.00	\$211.15	
		T3: PS 226 Mini school					. ,	·	
126	10/28/2020	Bronx	1	4	20	23	\$6,795.00	\$295.43	1.15
127	10/30/2020	T1: Arthur D Phillips School	1	5	20	24	\$6,960.00	\$290.00	
	10/30/2020	T1: PS 16 Staten Island	1	4	20	70	\$14,550.00	\$207.86	
	40/00/0000	T2: PS 36 Annex Staten							
129	10/30/2020	Island	1	4	16	9	\$3,885.00	\$431.67	0.56
130	10/30/2020	T2: PS 74 Staten Island	1	5	25	20	\$7,050.00	\$352.50	0.80
	10/30/2020	T3: IS 202 Queens	1	5	25	17	\$6,555.00	\$385.59	0.68
	10/30/2020	T3: John Adams HS	1	5	20	11	\$4,815.00	\$437.73	
		Boriken/ Wagner Houses/							
133	10/31/2020	NYCHA Housing	1	9	63	47	\$12,561.00	\$267.26	0.75
134	11/2/2020	T1: PS 102 Brooklyn	1	5	25	2	\$4,080.00	\$2,040.00	0.08
135	11/2/2020	T1: PS 104 Brooklyn	1	5	20	22	\$6,630.00	\$301.36	1.10
136	11/2/2020	T2 : PS 152	1	5	25	28	\$8,370.00	\$298.93	1.12
		HUD Housing - East 129th							
137	11/4/2020	St	1	5	35	55	\$11,337.00	\$206.13	1.57
138	11/4/2020	T1: PS 170 Brooklyn	1	5	25	38	\$10,020.00	\$263.68	
139	11/4/2020	T2: PS 63 Queens	1	5	25	23	\$7,545.00	\$328.04	0.92
140	11/4/2020	T2: PS 64 Queens	1	4	16	6	\$3,390.00	\$565.00	
141	11/4/2020	T3: IS 2 Staten Island	1	4	20	14	\$5,310.00	\$379.29	0.70
142	11/4/2020	T3: PS 50 Staten Island	1	5	20	14	\$5,310.00	\$379.29	0.70
143	11/5/2020	T1: PS 31 Staten Island	1	5	25	44	\$11,010.00	\$250.23	1.76
144	11/5/2020	T3: IS 125 Queens	1	5		30	\$8,700.00	\$290.00	1.20
145	11/6/2020	T2: PS 3 Staten Island	1	5	20	32	\$8,280.00	\$258.75	1.60
146	11/6/2020	T3: PS 212 Queens	1	5	25	19	\$6,885.00	\$362.37	0.76
147	11/6/2020	T3: PS 222 Queens	1	4	16	52	\$10,980.00	\$211.15	3.25
148	11/11/2020	Boriken FQHC	1	7	49	10	\$5,517.00	\$551.70	0.20
	Nov 14 &	Boriken - First Spanish							
149	21, 2020	United Methodist Church	2	12	60	75	\$16,441.00	\$219.21	1.25
	Nov 14 &	Hope Center Development							
154	21, 2020	Corporation	2	9	40.5	117	\$22,171.00	\$189.50	2.89
	Nov 14 &								
155	21, 2020	Urban Health Plan	2	6	36	143	\$24,457.00	\$171.03	3.97
		Greenpoint Reformed							
150	11/19/2020	Church	1	5	30	49	\$10,230.00	\$208.78	1.63
		Faber Park - Richmond			<u></u>				
151	11/20/2020	Terrace - Staten Island	1	5	45	4	\$7,410.00	\$1,852.50	0.09
		Lieutenant John H	<u>-</u>						
		Martinson Playground -							
	11/20/2020	Staten Island	1	4	36		\$16,785.00	\$243.26	
153	11/24/2020	Union Settlement	1	7	56	59	\$14,847.00	\$251.64	1.05

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	Dec 1 & 4,								
156	2020	Boriken - Taino Towers	2	9	54	51	\$16,515.00	\$323.82	0.94
157	Dec 5 & 12, 2020	Boriken - First Spanish United Methodist Church	2	10	47.5	29	\$11,910.00	\$410.69	0.61
	12/5/2020	Plaza del Sol - Urban Health	1	5	20	29	\$7,785.00	\$268.45	1.45
159	12/6/2020	Christ United Methodist Church	1	6	24	45	\$11,025.00	\$245.00	1.88
160	12/7/2020	East Harlem Residential	1	4	24	34	\$9,210.00	\$270.88	
161	12/7/2020	Harlem United - Foundation House	1	3	21	13	\$5,295.00		
162	12/10/2020	Harlem United - Willis Green	1	5	25	25	\$7,875.00	\$315.00	1.00
163	12/13/2020	American Indian Community House	1	3	19.5	29	\$7,710.00	\$265.86	1.49
164	12/30/2020	Harlem United - Jerome Lawrence Veterans Housing	1	5	37.5		\$7,935.00		
	Subtotal				7,946.00	10,399	\$2,571,793.00	\$247.31	1.31
	Grand Total				67,785.25	47,487	\$17,596,890.50	\$370.56	0.70

### **APPENDIX II**

<u>List of Sampled Community Long-Term/Fixed and Pop-up Vaccination Sites: Total Amount Paid and Auditors' Calculated Average Cost per Vaccination & Average Number of Vaccinations Administered per Staff Hour</u>

			Total # of		Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Auditors' Calc  Average Cost Per Administered Vaccine	Average # of Vaccines Per Staff Hour
#	Event Dates	Location Name	Event Days	Total # of Staff	A	В	С	C/B	B/A
		Location Hame	Days	Oi Otali	A	<b>D</b>	J	ОТВ	DIA
Long	-Term/Fixed Sites	1							
4	January 2021-	Manhattan Chalasa	2	10	05.00	02	¢46 EE0 00	¢470.00	0.07
<u>'</u>	February 2021 January 2021-	Manhattan Chelsea		10	95.00	92	\$16,550.00	\$179.89	0.97
2	February 2021	Queens Jamaica	2	8	76.00	62	\$12,950.00	\$208.87	0.82
	January 2021 -	Queens variated		0	70.00	02	Ψ12,300.00	Ψ200.01	0.02
3	April 2021	Manhattan Worth St.	209	5,540	72,263.75	75,092	\$12,716,862.50	\$169.35	1.04
	April 2021 - March	Museum Natural		-,-:-	,_,_,_,		<del>+</del>	<del>*</del> * * * * * * * * * * * * * * * * * *	
4	2022	History	329	14,959	159,179.00	97,014	\$26,301,475.00	\$271.11	0.61
	April 2021 -	Queens Mall - Former							
5	June 2022	Modell's	385	20,796	248,153.00	130,384	\$40,482,150.00	\$310.48	0.53
	April 2021 -								
6	July 2021	Coney Island YMCA	86	2,357	30,269.00	12,863	\$4,861,925.00	\$377.98	0.42
	May 2021 -	Brooklyn Children's			a		<b>*</b>	40-0 //	
7	June 2022	Museum	243	7,057	81,006.50	37,033	\$13,076,575.00	\$353.11	0.46
0	May 2021 -	Bronx Zoo	47	020	0 004 50	2 000	¢4 400 07E 00	¢400.47	0.22
8	July 2021 May 2021 -	DIONX ZOO	47	929	9,004.50	2,908	\$1,423,375.00	\$489.47	0.32
9	July 2021	One Jamaica Center	53	668	8,101.00	1,502	\$1,252,700.00	\$834.02	0.19
3	June 2021 -	One Jamaica Ocitici	55	000	0,101.00	1,002	ψ1,202,700.00	Ψ004.02	0.13
10	December 2021	Beach 39th St	123	4,398	53,847.50	18,181	\$8,531,650.00	\$469.26	0.34
	June 2021 -	City College North	1 - 0	1,000		,	<del>+ -     </del>	<del>*************************************</del>	0.00
11	July 2021	Academic Center	20	289	3,512.75	1,232	\$557,712.50	\$452.69	0.35
	June 2021 -				,	,		·	
12	July 2021	NY Aquarium	25	370	3,665.00	741	\$568,275.00	\$766.90	0.20
	June 2021 -								
13	December 2021	City Point	141	6,085	74,543.00	46,921	\$12,354,375.00	\$263.30	0.63
L.	June 2021 -	E 1 113/4404	_	0.7	4 404 00	470	<b>447</b> 0 000 00	<b>04.047.05</b>	0.45
14	July 2021	Edenwald YMCA	7	97	1,164.00	176	\$179,000.00	\$1,017.05	0.15
15	June 2021 – June 2022	Long Island City	262	11,178	136,077.00	52,961	\$21,735,475.00	\$410.41	0.39
13	July 2021 -	Long Island City	202	11,170	130,077.00	32,901	φ <u>21,733,473.00</u>	φ410.41	0.58
16	February 2022	Essex Crossing	188	9,533	117,619.00	59,150	\$19,121,600.00	\$323.27	0.50
١Ť	July 2021 -	West Bronx	100	5,555	,	33,100	ψ 10, 12 1,000.00	Ψ020.21	0.00
17	February 2022	Gymnasium	192	7,771	94,928.00	35,392	\$15,124,000.00	\$427.33	0.37
	July 2021 -			,	,	,	,	,	
18	June 2022	The Jefferson	258	8,999	109,649.00	37,542	\$17,385,825.00	\$463.10	0.34
	July 2021 -								
19	June 2022	The Livonia	258	8,682	105,778.00	31,702	\$16,659,225.00	\$525.49	0.30
L.	July 2021 -	Ocean Breeze Athletic							
20	September 2022	Complex	51	1,237	15,138.25	8,638	\$2,486,687.50	\$287.88	0.57
24	March 2022 - June	Morrisania Emergency	, ,	001	2 244 22	000	<b>#EOO 07E 00</b>	¢0.400.05	0.00
21	2022	Clinic	41	321	3,341.00	209	\$506,375.00	\$2,422.85	0.06

								Auditors' Cald	culations
			Total # of Event	Total #	Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Average Cost Per Administered Vaccine	Average # of Vaccines Per Staff Hour
#	Event Dates	Location Name	Days	of Staff	Α	В	С	C/B	B/A
22	April 2022 - June 2022	Empire Outlets Staten Island	46	758	7,220.00	772	\$1,102,300.00	\$1,427.85	0.11
	April 2022 - June 2022	Times Square NYC	46	929	·		\$1,384,975.00	\$704.46	
	TOTAL	Times equals ivi s		020	1,343,535.75	652,533	\$217,842,037.50	\$333.84	
Pop-	Up sites								
1	1/6/2021	Northern Manhattan Rehab & Nursing Ctr.	1	13	136.5	239	\$26,450.00	\$110.67	1.75
2	1/14/2021	St. Joachim and Anne Nursing and Rehab Ctr	1	16	144	182	\$26,150.00	\$143.68	1.26
3	1/17/2021	Linden Center Nursing and Rehab	1	13	156	156	\$27,300.00	\$175.00	1.00
4	1/17/2021	Split Rock Nursing Home	1	1	3	10	\$700.00	\$70.00	3.33
5	January 20 & 21, 2021	ACS Manhattan - 150 William Street	2	18	153	62	\$24,500.00	\$395.16	0.41
6	2/3/2021	Northern Manhattan Rehab & Nursing Ctr.	1	13	136.5	213	\$25,800.00	\$121.13	1.56
7	2/4/2021	New York Foundling - 2037 Utica Ave	1	17	187	250	\$34,300.00	\$137.20	1.34
8	2/9/2021	Mill Brook Senior Center	1	15	157.5	102	\$26,175.00	\$256.62	0.65
9	2/10/2021	Fortune Society	1	16	168	157	\$29,125.00	\$185.51	0.93
10	2/11/2021	St. Joachim and Anne Nursing and Rehab Ctr	1	18	162	186	\$28,950.00	\$155.65	1.15
11	2/12/2021	Red Oak Senior Center	1	20	210	202	\$36,550.00	\$180.94	0.96
12	2/15/2021	Linden Center Nursing and Rehab	1	13	156	159	\$27,375.00	\$172.17	1.02
13	3/4/2021	New York Foundling - 2037 Utica Ave	1	21	231	64	\$36,250.00	\$566.41	0.28
14	3/10/2021	Mill Brook Senior Center	1	17	178.5	93	\$29,100.00	\$312.90	0.52
15	3/11/2021	Fortune Society	1	16	168	151	\$28,975.00	\$191.89	0.90
16	3/12/2021	Red Oak Senior Center	1	19	199.5	194	\$34,775.00	\$179.25	0.97
17	5/8/2021	Bronx Week Health Day Fair - 127 Westchester Square Brooklyn Bridge Park -	1	20	170	25	\$26,125.00	\$1,045.00	0.15
18	May 8 & 9, 2021	146 Furman St	2	42	525	136	\$82,150.00	\$604.04	0.26
19	May 8 & 9, 2021	Sunset Park - Brooklyn	2	42	525	79	\$80,725.00	\$1,021.84	0.15
20	May 8, 9, 29, 30 & 31, 2021	Unisphere at Flushing Meadows - Corona Park Queens	5	88	1088	325	\$171,325.00	\$527.15	0.30
21	May 15, 16, 29, 30 & 31, 2021	Prospect Park	5	100			\$197,700.00		

								Auditors' Cald	culations
			Total # of Event	Total #	Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Average Cost Per Administered Vaccine	Average # of Vaccines Per Staff Hour
#	Event Dates	Location Name	Days	of Staff	Α	В	С	C/B	B/A
22	May 15,16, 29, 30 & 31, 2021	Central Park	5	98	1243	403	\$196,525.00	\$487.66	0.32
		Union Square - DOT							
23	May 17 & 18, 2021	Pedestrian Plaza Morrisania Air Rights	2	57	741	100	\$113,650.00	\$1,136.50	0.13
		Housing - 3145 Park							
24	5/22/2021	Avenue	1	12	96	8	\$14,600.00	\$1,825.00	0.08
25	5/23/2021	Brookville Park - 147th Ave and Brookville	1	10	75	40	\$12,250.00	\$306.25	0.53
			_						
26	May 29 - 31, 2021	Brooklyn Bridge Park NYCHA Polo Grounds	3	46	567	96	\$87,450.00	\$910.94	0.17
27	6/4/2021	Block Party	1	23	276	19	\$41,875.00	\$2,203.95	0.07
		Unisphere at Flushing Meadows - Corona							
28	6/5/2021	Park Queens	1	19	266	54	\$41,250.00	\$763.89	0.20
29	June 12 - 13, 2021	Brooklyn Bridge Park	2	30	420	169	\$67,225.00	\$397.78	0.40
30		Tompkins Square Park	2	30	420	161	\$67,025.00	\$416.30	0.38
31	June 12, 13, 19 & 20, 2021	The Jefferson	4	23	276	57	\$42,825.00	\$751.32	0.21
31	June 12, 13, 19 &	The Jenerson	7	20	210	37	ψ42,023.00	ψ101.02	0.21
32	20, 2021	The Livonia	4	24	288	56	\$44,600.00	\$796.43	0.19
33	June 19 & 20, 2021	Central Park	2	36	504	261	\$82,125.00	\$314.66	0.52
34	June 19 & 20, 2021	Prospect Park Roy Wilkins Park -	2	37	499.5	85	\$77,050.00	\$906.47	0.17
35	6/19/2021	Jamaica Queens	1	22	286	15	\$43,275.00	\$2,885.00	0.05
26	June 21 - 27, 2021	Manhattan Chelsea -	7	56	512	96	¢70,200,00	<b>\$925.00</b>	0.10
36	July 17, 18 & 31,	303 Ninth Avenue	1	30	512	90	\$79,200.00	\$825.00	0.19
37	2021	Central Park	3	49	637	122	\$98,600.00	\$808.20	0.19
38	July 17, 18, 24 & 25, 2021	Canarsie Park	4	57	605	37	\$91,675.00	\$2,477.70	0.06
		Wagner Houses						. ,	
39	7/22/2021	NYCHA Youth Fair	1	12	90	13	\$13,825.00	\$1,063.46	0.14
40	July 24 & 25, 2021	Tompkins Square Park	2	31	350	89	\$54,725.00	\$614.89	0.25
44	7/24/2024	Castle Hill	1	10	05	20	¢42.475.00	<b>\$464.66</b>	0.24
41	7/31/2021	Castle Hill	1	10	85	29	\$13,475.00	\$464.66	0.34
42	7/31/2021	Prospect Park	1	11	137.5	36	\$21,525.00	\$597.92	0.26
43	August 1, 7 & 8, 2021	Prospect Park	3	37	462.5	145	\$73,000.00	\$503.45	0.31
		•					·		
44	8/1/2021	Central Park CAMBA Pink Houses	1	13	169	81	\$27,250.00	\$336.42	0.48
45	8/7/2021	Cornerstone Center	1	16	136	14	\$20,750.00	\$1,482.14	0.10
46	8/7/2021	Wagner Houses	1	14			\$16,000.00		

								Auditors' Cale	culations
			Total # of Event	Total #	Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Average Cost Per Administered Vaccine	Average # of Vaccines Per Staff Hour
#	Event Dates	Location Name	Days	of Staff	Α	В	С	C/B	B/A
47	8/13/2021	PS 52 - Rep Espaillat	1	29	362.5	22	\$54,925.00	\$2,496.59	0.06
48	8/14/2021	John Adams Houses	1	14	133	22	\$20,500.00	\$931.82	0.17
49	8/14/2021	PS 48 Schoolyard	1	28	238	6	\$35,850.00	\$5,975.00	0.03
50	8/14/2021	Saratoga Village	1	15	127.5	11	\$19,400.00	\$1,763.64	0.09
51	8/20/2021	IS 5 - Sunnyside Community	1	7	66.5	11	\$10,250.00	\$931.82	0.17
52	8/24/2021	Van Dyke	1	7	59.5	13	\$9,250.00	\$711.54	0.22
53	8/28/2021	Bronx River	1	7	59.5	12	\$9,225.00	\$768.75	0.20
54	8/28/2021	Concourse Village Theodore Roosevelt -	1	7	59.5	20	\$9,425.00	\$471.25	0.34
	Sept 13, 14 & 17, 2021	West Bronx Academy for the Future - Bronx	3	17	221	7	\$33,325.00	\$4,760.71	0.03
	September 13, 14, 15 & 17, 2021	Bronx Regional HS - Arturo A. Schomburg Satellite Academy Bronx - Bronx	4	23	299	22	\$45,400.00	\$2,063.64	0.07
57	September 13, 14, 15 & 17, 2021	Curtis HS - Staten Island	4	24	312	24	\$47,400.00	\$1,975.00	0.08
	September 13, 14,	Evander Childs HS - Bronx High School for Writing and Communication Arts -							
58	15 &17, 2021	Bronx	4	23	299	6	\$45,000.00	\$7,500.00	0.02
59	September 13, 14, 15 &17, 2021	IS 246 - Brooklyn - M.S. 246 Walt Whitman - Brooklyn	4	23	299	26	\$45,500.00	\$1,750.00	0.09
	September 13, 15 &17, 2021	X884 - Health Opportunities HS - Community School for Social Justice - Bronx	3	18	234	8	\$35,300.00	\$4,412.50	0.03
	September 13, 15 &17, 2021	IS 142 - Bronx - Bronx Alliance Middle School - Bronx	3	18	228	5	\$34,325.00		
	September 13, 15 &17, 2021	IS 174 - Bronx - Women's Academy of Excellence - Bronx	3	17	221	8	\$33,350.00	\$4,168.75	0.04
	September 14 & 15, 2021	PS 305 - Brooklyn - Academy of Arts and Letters - Brooklyn	2	12	156	7	\$23,575.00	\$3,367.86	0.04
64	September 14 & 17, 2021	K845 - PS 295 - Brooklyn	2	11	143	2	\$21,500.00	\$10,750.00	0.01
65	September 14, 15 & 17, 2021	IS 75 - Staten Island - I.S. 075 Frank D. Paulo - Staten Island	3	22	286	6	\$43,050.00	\$7,175.00	0.02
66	September 14, 15 & 17, 2021	X475 - John F Kennedy HS - Bronx Engineering	3	17	221	10	\$33,400.00	\$3,340.00	0.05

								Auditors' Cald	culations
			Total # of Event	Total #	Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Average Cost Per Administered Vaccine	Average # of Vaccines Per Staff Hour
#	Event Dates	Location Name	Days	of Staff	Α	В	С	C/B	B/A
		and Technology							
		Academy							
67	September 14, 15 & 17, 2021	PS 279 - Bronx - P.S. 279 Captain Manuel Rivera, Jr Bronx	3	17	221	25	\$33,775.00	\$1,351.00	0.11
		Adult Learning Center - Brooklyn - ADULT LRNG CTR (OLD GRLS HS) - K -							
68	9/14/2021	Brooklyn	1	6	30	1	\$4,525.00	\$4,525.00	0.03
69	9/14/2021	K138 - PS 138 - Brooklyn	1	6	78	1	\$11,725.00	\$11,725.00	0.01
	September 15 & 17, 2021	IS 145 - New Millennium Bronx Academy of the Arts	2	11	143		\$21,800.00	\$1,557.14	0.10
	September 15 &	K258 - IS 258 - P.S.							
71	17, 2021	K140 - Brooklyn	2	12	156	7	\$23,575.00	\$3,367.86	0.04
72	9/17/2021	IS 240 - Brooklyn - Andries Hudde - Brooklyn	1	6	78	1	\$11,725.00	\$11,725.00	0.01
73	9/18/2021	MS 35 Stephen Decatur - SCO Family of Services	1	14	119	2	\$17,900.00	\$8,950.00	0.02
74	9/20/2021	Team First	1	13	110.5	13	\$16,900.00	\$1,300.00	0.12
75	9/22/2021	PS 123 Mahalia Jackson - Graham Windham Services	1	12	78	23	\$12,275.00		
7.5	O/ZZ/ZOZ I	IS 141 - HANAC Astoria		12	70	20	Ψ12,210.00	Ψ000.70	0.23
76	9/24/2021	Steinway Beacon	1	11	93.5	1	\$14,050.00	\$14,050.00	0.01
77	9/25/2021	ACDP	1	13	110.5	5	\$16,700.00	\$3,340.00	0.05
78	October 4 - 6, 2021	K434 - Achievement First Crown Heights Charter School	3	12		5	\$11,825.00		
	October 4 & 5,	K002 - Parkside							
79	2021	Preparatory Academy X790 - Bronx	2	8	104	6	\$15,750.00	\$2,625.00	0.06
80	October 4, 5 & 6, 2021	Leadership Academy II HS	3	12	78	6	\$11,850.00	\$1,975.00	0.08
81	October 4, 5, 6 & 8, 2021	R450 - Curtis High School	4	15	139	16	\$21,250.00	\$1,328.13	0.12
82	October 4, 5, 6, 7 & 8, 2021	X279 - PS 279 Captain Manuel Rivera Jr K246 - MS 246 Walt	5	17	125		\$19,375.00	\$775.00	
83	October 5 - 8, 2021		4	14	118	22	\$18,250.00	\$829.55	0.19
84	October 7 & 8, 2021	K258 - PS K140	2	8	104		\$15,725.00		0.05
85	October 7 & 8, 2021	K305 - Academy of Arts and Letters	2	6	78	6	\$11,850.00	\$1,975.00	0.08
86	October 7 & 8, 2021	R075 - IS 075 Frank D Paulo	2	7	91	3	\$13,725.00	\$4,575.00	0.03

								Auditors' Cald	culations
			Total # of Event	Total #	Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Average Cost Per Administered Vaccine	Average # of Vaccines Per Staff Hour
#	Event Dates	Location Name	Days	of Staff	Α	В	С	C/B	B/A
07	October 7 & 8,	X174 - Women's	)	•	70	-	<b>#44.075.00</b>	<b>#4</b> 000 40	0.00
87	2021	Academy of Excellence X425 - Bronx HS for	2	6	78	1	\$11,875.00	\$1,696.43	0.09
88	October 7 & 8, 2021	Writing and Communication Arts	2	8	104	3	\$15,675.00	\$5,225.00	0.03
	October 7 & 8,	X475 - John F Kennedy HS - Bronx Engineering and Technology		•	40.4		<b>*</b> 45.005.00	44 750 00	0.00
89	2021	Academy	2	8	104	9	\$15,825.00	\$1,758.33	0.09
90	10/7/2021	K338 - PS 889 IS 145 - New	1	4	52	1	\$7,825.00	\$7,825.00	0.02
91	10/8/2021	Millennium Bronx Academy of the Arts	1	3	39	5	\$5,975.00	\$1,195.00	0.13
00	10/8/2021	K845 - PS 295	1	4	52	3	¢7 97E 00	¢2 625 00	0.06
92	10/6/2021	X142 - Bronx Alliance	-	4	52	3	\$7,875.00	\$2,625.00	0.06
93	10/8/2021	Middle School	1	4	48	2	\$7,250.00	\$3,625.00	0.04
	10/9/2021	X435 - West Bronx	1	4	52	2	¢7 950 00		
94	10/8/2021	Academy for the Future X884 - Health	- 1	4	52		\$7,850.00	\$3,925.00	0.04
		Opportunities HS -							
		Community School for							
95	10/8/2021	Social Justice - Bronx	1	4	52	2	\$7,850.00	\$3,925.00	0.04
00	10/05/0004	DOT Manhattan - 303	4	•	22	4.4	фE 22E 00	¢475.00	0.00
96	10/25/2021	South Street NYCHA Manhattan - 90	1	3	33	11	\$5,225.00	\$475.00	0.33
97	10/25/2021	Church St	1	5	42.5	25	\$7,000.00	\$280.00	0.59
		DOT Queens - 69-46					<b>7</b> 1,000.00	7=0000	
98	10/26/2021	Sybilla St	1	4	44	23	\$7,175.00	\$311.96	0.52
00	40/07/0004	DOT Queens - 32-11	4	7	45.5	70	<b>#0.050.00</b>	<b>#440.40</b>	4.00
99	10/27/2021	Harper St	1	7	45.5	73	\$8,650.00	\$118.49	1.60
100	10/28/2021	DCWP - 42 Broadway	1	4	28	17	\$4,625.00	\$272.06	0.61
		DOT - LIC - 42-00					· ·	·	
101	10/28/2021	Vernon Blvd	1	4	60	8	\$9,200.00	\$1,150.00	0.13
102	10/28/2021	HPD Manhattan - 100 Gold St	1	3	21	29	\$3,875.00	\$133.62	1.38
102	October 28 - 29,	DOC - 59-17 Junction	- '	3	21	29	φ3,073.00	\$133.02	1.50
103	2021	Blvd	2	10	107.5	21	\$16,650.00	\$792.86	0.20
	October 28 - 29,	DOC - 75-20 Astoria							
104	2021	Blvd	2	10	127.5	32	\$19,925.00	\$622.66	0.25
105	11/4/2021	DYCD Manhattan - 2 Lafayette St	1	4	20	13	\$3,325.00	\$255.77	0.65
103	11/4/2021	NYCHA Manhattan - 90		- +	20	13	ψ3,323.00	Ψ233.11	0.03
106	11/4/2021	Church St	1	5	35	17	\$5,675.00	\$333.82	0.49
		NYCHA Brooklyn - 787							
107	11/9/2021	Atlantic Ave	1	7	49	20	\$7,850.00	\$392.50	0.41
108	11/12/2021	HRA - Manhattan - 150 Greenwich St	1	4	28	4	\$4,300.00	\$1,075.00	0.14
		ACS Manhattan - 150 William Street	2	12		147	<u> </u>		
109	ZUZ I	vviiilaiii Sueel	Z	12	102	147	\$18,975.00	φ129.00	1.44

								Auditors' Cal	culations
			Total # of Event	Total #	Total # of Staff Hours	Total # of Patients Serviced	Total Billed Amount	Average Cost Per Administered Vaccine	Average # of Vaccines Per Staff Hour
#	Event Dates	Location Name	Days	of Staff	Α	В	С	C/B	B/A
110	11/30/2021	EMTC 10-10 Hazen St	1	4	24	7	\$3,775.00	\$539.29	0.29
111	December 4 - 8, 2021	Bronx Regional HS - Arturo A. Schomburg Satellite Academy Bronx - Bronx	5	20	164	23	\$25,175.00	\$1,094.57	0.14
		NYCHA LIC - 24-02					· ·	, ,	
112	12/9/2021	49th St	1	4	22	48	\$4,500.00	\$93.75	2.18
113	December 20 & 21, 2021	ACS Manhattan - 150 William Street	2	10	85	106	\$15,400.00	\$145.28	1.25
114	1/5/2022	DCAS - 1 Centre Street	1	4	36	90	\$7,650.00	\$85.00	2.50
115	1/11/2022	NYCHA Manhattan - 90 Church St	1	5	41	48	\$7,350.00	\$153.13	1.17
116	1/12/2022	DCWP - 42 Broadway	1	4	26	4	\$4,000.00	\$1,000.00	0.15
117	1/13/2022	NYCHA LIC - 24-02 49th St	1	7	45.5	31	\$7,600.00	\$245.16	
118	2/4/2022	Rikers Academy - Middle Village	1	3	25.5	5	\$3,950.00	\$790.00	0.20
119	2/10/2022	DCAS - 1 Centre Street	1	9	81	46	\$13,300.00	\$289.13	0.57
400	0/05/0000	ACS Bronx - 2501	,		00.5	4.4	<b>#0.705.00</b>	#000 0 <del>7</del>	0.00
120	2/25/2022	Grand Concourse	1	5	22.5	14	\$3,725.00	\$266.07	0.62
	Subtotal				23,425.50	6,797	\$3,683,625.00	\$541.95	0.29
	Grand Total				1,366,961.25	659,330	\$221,525,663.50	\$335.99	0.48

## **APPENDIX III**

### Complete List of Long-term/Fixed and Pop-up Testing Sites

#	Location Name	Address
I.	<b>Long-Term Testing Locations</b>	
1	Rikers Island	16-16 Hazen Street, East Elmhurst, NY 11370
2	City Hall	City Hall, New York NY 10007
3	Gotham	42-09 28th Street, Long Island City, NY 11101
4	The Factory	30-30 47th Avenue, Long Island City, NY 11101
5	Queens Center Mall	58-56 92nd Street, Queens, NY 11373
6	DFTA (Dept. for the Aging) Christopher Blenman Sr. Center	720 East New York, Brooklyn, NY 11203
7	DFTA Grant Sq. Sr. Center	19 Rogers Avenue, Brooklyn, NY 11216
8	DFTA Hugh Gilroy Sr. Center	447 Kingsborough 4th Walk, Brooklyn, NY 11233
9	Grand Street Guild	151 Broome Street, New York, NY 10002
Ш	. Pop-up Testing Locations	
1	Abraham Lincoln HS	2800 Ocean Parkway, Brooklyn, NY 11235
2	American Indian Community House	39 Eldridge Street, New York, NY 10002
3	Arthur D Phillips School	98 Grant Street, Staten Island, NY 10301
4	Bklyn Coll Academy	350 Coney Island Avenue, Brooklyn, NY 11218
5	Boriken/Boys Club of NY	321 E 111th Street, New York, NY 10029
6	Boriken/First Spanish United Methodist Church	163 E 111th Street, New York, NY 10029
7	Boriken/Manhattan HUD	110 E 129th Street, New York, NY 10035
8	Boriken/Union Settlement	2265 3rd Avenue & E 123rd Street, New York, NY 10035
9	Boriken/Wagner Houses	118th & Pleasant Avenue, New York, NY 10029
10	Boriken-Taino Towers	221 E 122nd Street, New York, NY 10035
11	Boys and Girls HS	1700 Fulton Street, Brooklyn, NY 11213
12	Brooklyn Navy Yard	141 Flushing Avenue, Brooklyn, NY 11205
13	Christ United Methodist Church	673 45th Street, Brooklyn, NY 11220
14	Coopertech	321 E 96th Street, New York, NY 10029
15	Dewitt Clinton HS	100 West Mosholu Parkway, Bronx, NY 10468
16	DOE New Settlement X240	1501 Jerome Avenue, Bronx, NY 10452
17	DOH - DOH Brooklyn Dormitory	667 Eastern Parkway Brooklyn, NY 11213

#	Location Name	Address
18	East Harlem Residential	55 E 115th New York, NY 10029
19	Edward R Murrow HS	1600 Avenue L, Brooklyn, NY 11230
20	Erasmus (K465)	911 Flatbush Avenue, Brooklyn, NY 11226
21	Faber Park	2200 Richmond Ter, Staten Island, NY 10302
22	FDR HS	5800 20th Avenue, Brooklyn, NY 11204
23	Francis Lewis HS	5820 Utopia Parkway, Fresh Meadows, NY 11365
24	Grand St Campus	850 Grand Street, Brooklyn, NY 11211
25	Greenpoint Reformed Church	136 Milton Street, Brooklyn, NY 11222
26	Harlem United- Foundation House	306 Malcolm X Boulevard, New York, NY 10027
27	Harlem United- Jerome Lawrence Veterans Housing	330 West 95th Street, New York, NY 10025
28	Harlem United- Willis Green	123-125 W 124th Street, New York, NY 10027
29	Highbridge Env. Ed. Campus	200 West 167th Street, Bronx, NY 10452
30	Hillcrest HS	160-05 Highland Avenue, Jamaica, NY 11432
31	I.S. 117 (K117)	300 Willoughby Avenue, Brooklyn, NY 11205
32	I.S. 117 (X117)	1865 Morris Avenue, Bronx, NY 10453
33	I.S. 125	46-02 47th Avenue, Woodside, NY 11377
34	I.S. 14	2424 Batchelder Street, Brooklyn, NY 11235
35	I.S. 2	655 Parkside Avenue, Brooklyn, NY 11226
36	I.S. 2	333 Midland Avenue, Staten Island, NY 10306
37	I.S. 202 (Q202)	138-30 Lafayette Street, Queens, NY 11417
38	I.S. 206B	2280 Aqueduct Avenue, Bronx, NY 10468
39	I.S. 227	6500 16th Avenue, Brooklyn, NY 11204
40	I.S. 232 (X082)	1700 Macombs Road, Bronx, NY 10453
41	I.S. 24 (R024)	750 Durant Avenue, Staten Island, NY 10308
42	I.S. 27 R027	11 Clove Lake Place, Staten Island, NY 10310
43	I.S. 34 (R034)	528 Academy Avenue, Staten Island, NY 10307
44	I.S. 399	120 East 184th Street, Bronx, NY 10468
45	I.S. 62	700 Cortelyou Road, Brooklyn, NY 11218
46	I.S. 96	99 Avenue P, Brooklyn, NY 11204
47	I.S. 98	1401 Emmons Avenue, Brooklyn, NY 11235
48	IS 219 New Venture School	3630 3rd Avenue, Bronx, NY 10456
49	Jamaica High School	167-01 Gothic Drive, Jamaica, NY 11432
50	JHS 168	158-40 76th Road, Fresh Meadows, NY 11366
51	JHS 216	64-20 175th Street, Flushing, NY 11365

#	Location Name	Address
52	JHS 223	4200 16th Avenue, Brooklyn, NY 11219
53	John Adams HS	101-01 Rockaway Boulevard, Queens, NY 11417
54	John Bowne HS	63-25 Main Street, Flushing, NY 11367
55	Leon Goldstein HS	1830 Shore Boulevard., Brooklyn, NY 11235
56	Lieutenant John H Martinson Park	Preston Avenue, Staten Island, NY 10312
57	Midwood HS	2839 Bedford Avenue, Brooklyn, NY 11210
58	Morris Heights Educational (X338)	1780 Dr. Martin Luther King Jr. Boulevard., Bronx, NY 10453
59	Our Lady of Angels Church/The Rectory	7320 4th Avenue, Brooklyn, NY 11209
60	P.S. 1 (R001)	58 Summit Street, Staten Island, NY 10307
61	P.S. 102	211 72nd Street Brooklyn, NY 11209
62	P.S. 104	9115 5th Avenue, Brooklyn, NY 11209
63	P.S. 105	1031 59th Street, Brooklyn, NY 11219
64	P.S. 109 (X109)	1771 Popham Avenue, Bronx, NY 10453
65	P.S. 11	1257 Ogden Avenue, Bronx, NY 10452
66	P.S. 114	1155 Cromwell Avenue, Bronx, NY 10452
67	P.S. 126 (X126)	175 West 166th Street, Bronx, NY 10452
68	P.S. 130	713 Canton Avenue, Brooklyn, NY 11218
69	P.S. 131	170-45 84th Avenue, Jamaica, NY 11432
70	P.S. 132	320 Manhattan Avenue, Brooklyn, NY 11211
71	P.S. 15	2195 Andrews Avenue, Bronx, NY 10453
72	P.S. 152	33-52 62nd Street, Woodside, NY 11377
73	P.S. 154 (Q154)	75-02 162nd Street, Flushing, NY 11366
74	P.S. 16	195 Daniel Low Terrace, Staten Island, NY 10301
75	P.S. 160	5105 Fort Hamilton Parkway, Brooklyn, NY 11219
76	P.S. 163	2075 Webster Avenue, Bronx, NY 10457
77	P.S. 164	4211 14th Avenue, Brooklyn, NY 11219
78	P.S. 165	70-35 150 Street, Queens, NY 11367
79	P.S. 167	1025 Eastern Parkway, Brooklyn, NY 11213
80	P.S. 170	619 72nd Street, Brooklyn, NY 11209
81	P.S. 170 (X170)	1598 Townsend Avenue, Bronx, NY 10452
82	P.S. 173	174-10 67th Avenue, Flushing, NY 11365
83	P.S. 177	346 Avenue P, Brooklyn, NY 11204
84	P.S. 179	202 Avenue C, Brooklyn, NY 11218
85	P.S. 18 R018	221 Broadway, Staten Island, NY 10310

#	Location Name	Address
86	P.S. 181	1023 New York Avenue, Brooklyn, NY 11203
87	P.S. 182	153-27 88th Avenue, Jamaica, NY 11432
88	P.S. 19 R019	780 Post Avenue, Staten Island, NY 10310
89	P.S. 192	4715 18th Avenue, Brooklyn, NY 11204
90	P.S. 195	131 Irwin Street, Brooklyn, NY 11235
91	P.S. 197	825 Hicksville Road, Far Rockaway, NY 11691
92	P.S. 199 (X104)	1449 Shakespeare Avenue, Bronx, NY 10452
93	P.S. 205	6701 20th Avenue, Brooklyn, NY 11204
94	P.S. 207	4011 Fillmore Avenue, Brooklyn, NY 11234
95	P.S. 212	34-25 82nd Street, Jackson Heights, NY 11372
96	P.S. 216	350 Avenue X, Brooklyn, NY 11223
97	P.S. 222	3301 Quentin Road, Brooklyn, NY 11234
98	P.S. 222	86-15 37 Avenue, Queens, NY 11372
99	P.S. 225	1075 Ocean View Avenue, Brooklyn, NY 11235
100	P.S. 226	6006 23rd Avenue, Brooklyn, NY 11204
101	P.S. 230	1 Albemarle Road, Brooklyn, NY 11218
102	P.S. 230/I.S. 229 (X229)	275 Harlem River Park Bridge, Bronx, NY 10453
103	P.S. 231	5601 16th Avenue Ste 5, Brooklyn, NY 11204
104	P.S. 236	6302 Avenue U, Brooklyn, NY 11234
105	P.S. 236 (X173)	1871 Walton Avenue, Bronx, NY 10453
106	P.S. 238	1633 East 8th Street, Brooklyn, NY 11223
107	P.S. 246	2641 Grand Concourse, Bronx, NY 10468
108	P.S. 247	7000 21st Avenue, Brooklyn, NY 11204
109	P.S. 249 (K249)	18 Marlborough Road, Brooklyn, NY 11226
110	P.S. 251 Brooklyn	1037 East 54th Street, Brooklyn, NY 11234
111	P.S. 253	1307 Central Avenue, Far Rockaway, NY 11691
112	P.S. 265 (K265)	101 Park Avenue, Brooklyn, NY 11205
113	P.S. 289	900 Saint Marks Avenue, Brooklyn, NY 11213
114	P.S. 3	80 South Goff Avenue, Staten Island, NY 10309
115	P.S. 306 (X306)	40 West Tremont Avenue, Bronx, NY 10453
116	P.S. 31	55 Layton Avenue, Staten Island, NY 10301
117	P.S. 312	7103 Avenue T, Brooklyn, NY 11234
118	P.S. 32	32 Elverton Avenue, Staten Island, NY 10308
119	P.S. 326	1800 Utica Avenue, Brooklyn, NY 11234

#	Location Name	Address
120	P.S. 338	21 Hinckley Place, Brooklyn, NY 11218
121	P.S. 340	25 West 195th Street, Bronx, NY 10468
122	P.S. 36 Annex	200 Jefferson Boulevard., Staten Island, NY 10312
123	P.S. 37	15 Fairfield Street, Staten Island, NY 10308
124	P.S. 396 X026	1930 Andrews Avenue, Bronx, NY 10453
125	P.S. 43	160 Beach 29th Street, Far Rockaway, NY 11691
126	P.S. 45 R045	58 Lawrence Avenue, Staten Island, NY 10310
127	P.S. 50	200 Adelaide Avenue, Staten Island, NY 10306
128	P.S. 52	2675 East 29th Street, Brooklyn, NY 11235
129	P.S. 53	330 Durant Avenue, Staten Island, NY 10308
130	P.S. 54 (K054)	195 Sandford Street, Brooklyn, NY 11205
131	P.S. 6 (R006)	555 Page Avenue, Staten Island, NY 10307
132	P.S. 60	91-02 88th Avenue, Queens, NY 11421
133	P.S. 63	90-15 Sutter Avenue, Queens, NY 11417
134	P.S. 64	82-01 101st Avenue, Ozone Park, NY 11416
135	P.S. 64 X064	1425 Walton Avenue, Bronx, NY 10452
136	P.S. 67 (K067)	51 Saint Edwards Street Ste 1, Brooklyn, NY 11205
137	P.S. 69	77-02 37th Avenue, Jackson Heights, NY 11372
138	P.S. 73	1020 Anderson Avenue, Bronx, NY 10452
139	P.S. 74	211 Daniel Low Terrace, Staten Island, NY 10301
140	P.S. 79 (X079)	125 East 181st Street, Bronx, NY 10453
141	P.S. 8	112 Lindenwood Road, Staten Island, NY 10308
142	P.S. 84 Brooklyn	250 Berry Street, Brooklyn, NY 11249
143	P.S. 86	2756 Reservoir Avenue, Bronx, NY 10468
144	P.S. 91	2200 Aqueduct Avenue, Bronx, NY 10453
145	P.S. 97	85-52 85th Street, Woodhaven, NY 11421
146	P.S. 99	82-37 Kew Gardens Road, Queens, NY 11415
147	P.S./I.S. 218	1220 Gerard Avenue, Bronx, NY 10452
148	P.S./I.S. 314 219	88-08 164th Street, Jamaica, NY 11432
149	P.S./I.S. 499	148-20 Reeves Avenue, Flushing, NY 11367
150	P.S.191	300 W 61st Street, New York, NY 10023
151	P.S.200	70-10 164th Street, Flushing, NY 11365
152	P.S.A 226 (X826)	1950 Sedgwick Avenue, Bronx, NY 10453
153	Plaza del Sol- Urban Health	37-16 108th Street, Corona, NY 11368

#	Location Name	Address
154	PreK Center at Ogden (X582)	1434 Ogden Avenue, Bronx, NY 10452
155	PS 245	249 E 17th Street, Brooklyn, NY 11226
156	Sunset Hyperlocal Events (P.S. 506 School of Journalism & Tech)	330 59th Street, Brooklyn, NY 11220
157	Sunset Park HS - K	153 35th Street, Brooklyn, NY 11232
158	The Hope Center/Church of God East Flatbush	409 East 95th Street, Brooklyn, NY 11212
159	Thomas Edison (Q620)	165-65 84th Avenue, Jamaica, NY 11432
160	Tottenville HS	100 Luten Avenue, Staten Island, NY 10312
161	Townsend Harris HS	149-11 Melbourne Avenue, Flushing, NY 11367
162	Tremont Hyperlocal Events-St. Simon Stock Church	2191 Valentine Avenue, Bronx, NY 10457
163	Urban Assembly School	1595 Bathgate Avenue, Bronx, NY 10457
164	Urban Health Plan, Bronx	866 E Tremont Avenue, Bronx, NY 10460
165	Walton HS	2780 Reservoir Avenue, Bronx, NY 10468
166	William E. Grady HS	25 Brighton 4th Road, Brooklyn, NY 11235

# **APPENDIX IV**

### **Complete List of Long-Term/Fixed and Pop-up Vaccination Sites**

#	Location Name	Address
I.	Fixed Vaccination Sites	
1	Beach	39-20 Rockaway Beach Boulevard, Queens, NY 11691
2	Bed-Stuy Restoration	1368 Fulton Street, Brooklyn, NY 11216
3	Bronx Co-Op City	177 Dreiser Loop, Bronx, NY 10475
4	Bronx Zoo	2300 Southern Boulevard, Bronx, 10460
5	Bronx Morissania	1309 Fulton Avenue, Bronx, NY 10456
6	Morrisania Emergency Clinic	1309 Fulton Avenue, Bronx, NY 10456
7	Brooklyn Children's Museum	145 Brooklyn Avenue, Brooklyn, NY 11213
8	Brooklyn El Caribe	5945 Strickland Avenue, Brooklyn, NY 11234
9	Brooklyn Fort Greene	295 Flatbush Avenue, Brooklyn, NY 11201
10	City College North Academic Center	1549 Amsterdam Avenue, New York, NY 10031
11	City Point	445 Albee Square West, Brooklyn, NY 11201
12	Coney Island YMCA	2980 W 29th Street, Brooklyn, NY 11224
13	Queens Corona	34-33 Junction Boulevard, Queens, NY 11372
14	Crown Heights	1218 Prospect Place, Brooklyn, NY 11213
15	Edenwald YMCA	1250 E 229th Street, Bronx, NY 10466
16	Elmhurst Education (Newton HS)	4801 90th Street, Elmhurst, NY 11373
17	Empire Outlets Staten Island	55 Richmond Terrace, Staten Island, NY 10301
18	Essex Crossing	244B Broome Street, New York, NY 10002
19	Ford Foundation	321 E 42nd Street, New York, NY 10017
20	Gotham	42-09 28th Street, LIC, NY 11101
21	Long Island City	5-17 46th Road, LIC, NY 11101
22	Manhattan Centre Street	1 Centre Street, New York, NY 10007
23	Manhattan Chelsea	303 9th Avenue, New York, NY 10001
24	Manhattan E Harlem Action Health Center	158 E 115th Street, New York, NY 10029
25	Manhattan Worth Street	125 Worth Street, New York, NY 10013
26	Museum Natural History	200 Central Park West, New York, NY 10024
27	NY Aquarium	602 Surf Avenue, Brooklyn, NY 11224
28	Ocean Breeze Athletic Complex	625 Father Capodanno Boulevard, Staten Island, NY 10305
29	One Jamaica Center	159-26 Jamaica Avenue, Jamaica, NY 11432

#	Location Name	Address
30	Queens Jamaica	90-37 Parsons Boulevard, Jamaica, NY 11432
31	Queens Mall Former Modell's	58-56 92nd Street, Queens, NY 11373
32	Rikers Island Correctional Facility	1616 Hazen Street, East Elmhurst, NY 11370
33	The Jefferson	1300 Flushing Avenue, Brooklyn, NY 11237
34	The Livonia	506 Livonia Avenue, Brooklyn, NY 11207
35	Times Square NYC	136 W 42nd Street, New York, NY 10036
36	West Bronx Gymnasium	1527 Jesup Avenue, Bronx, NY 10452
II.	Pop-up Vaccination Sites	
1	ACDP	401 W 164th Street, New York, NY 10032
2	ACS Bronx	2501 Grand Concourse, Bronx 10468
3	ACS Manhattan	150 William Street New York, NY 10038
4	Adlai E Stevenson - Millennium Art Academy - Bronx	1980 Lafayette Avenue, Bronx, NY 11221
5	Adult Learning Center- ADULT LRNG CTR (OLD GRLS HS) - K - Brooklyn	475 Nostrand Avenue, Brooklyn, NY 11216
6	Bronx Regional HS - Arturo A. Schomburg Satellite Academy Bronx	1010 Rev. J.A. Polite Avenue, Bronx, NY 10459
7	Bronx River	1619 East 174th Street, Bronx, NY 10472
8	Bronx Week Health Day Fair	127 Westchester Square, Bronx, NY 10461
9	Brooklyn Bridge Park	Old Fulton Street & Water Street, Brooklyn, NY 11201
10	Brooklyn Bridge Park	146 Furman Street, Brooklyn, NY 11201
11	Brookville Park	147th Avenue and Brookville Boulevard, Springfield Gardens, NY 11422
12	CAMBA Pink Houses Cornerstone Center	2702 Linden Boulevard, Brooklyn, NY 11208
13	Canarsie Park	Seaview Avenue & Remsen Avenue, Brooklyn, NY 11236
14	Castle Hill	625 Castle Hill Avenue, Bronx, NY 10473
15	Central Park	The Mall, Central Park, New York, NY 10021
16	Concourse Village	775 Concourse Village East, Bronx, NY 10451
17	DCAS	1 Centre Street, New York, NY 10007
18	DCWP	42 Broadway, New York, NY 10004
19	DOC	59-17 Junction Boulevard, Elmhurst, NY 11373
20	DOC	75-20 Astoria Boulevard, East Elmhurst, NY 11370
21	DOT - LIC	42-00 Vernon Boulevard, Long Island City, NY 11101
22	DOT Brooklyn	140 58th Street, Brooklyn, NY 11220

#	Location Name	Address
23	DOT Brooklyn - Sunset Yard	341 39th Street, Brooklyn, NY 11232
24	DOT Manhattan	303 South Street, New York, NY 10002
25	DOT Queens	32-11 Harper Street, Corona, NY 11368
26	DOT Queens	58-50 57th Road, Maspeth, NY 11378
27	DOT Queens	69-46 Sybilla Street, Forest Hills, NY 11375
28	DYCD Manhattan	2 Lafayette Street, New York, NY 10007
29	EMTC	10-10 Hazen Street, East Elmhurst, NY 11370
30	Fortune Society	29-76 Northern Boulevard, Long Island City, NY 11101
31	Health Opportunities HS - Community School for Social Justice - Bronx	350 Gerard Avenue, Bronx, NY 10451
32	HPD Manhattan	100 Gold Street, New York, NY 10038
33	HRA - Manhattan	150 Greenwich Street, New York, NY 10006
34	IS 141 - HANAC Astoria Steinway Beacon	37-11 21st Avenue, Astoria, NY 11105
35	IS 216 - Bronx -School of Performing Arts	977 Fox Street, Bronx, NY 10459
36	IS 45 - X045 -Thomas C. Giordano Middle School 45 - Bronx	2502 Lorillard Place, Bronx, NY 10458
37	IS 5 - Sunnyside Community	50-40 Jacobus Street, Elmhurst, NY 11373
38	John Adams Houses	152nd Street & Wales Avenue, Bronx, NY 10455
39	John F Kennedy HS - Bronx Engineering and Technology Academy	99 Terrace View Avenue, Bronx, NY 10463
40	K002 - Parkside Preparatory Academy - Brooklyn	655 Parkside Avenue, Brooklyn, NY 11226
41	K062 - J.H.S. 062 Ditmas - Brooklyn	700 Cortelyou Road, Brooklyn, NY 11218
42	K088 - J.H.S. 088 Peter Rouget - Brooklyn	544 7th Avenue, Brooklyn, NY 11215
43	K138 - P.S. 138 Brooklyn	760 Prospect Place, Brooklyn, NY 11216
44	K240 - Andries Hudde - Brooklyn	2500 Nostrand Avenue, Brooklyn, NY 11210
45	K246 - M.S. 246 Walt Whitman - Brooklyn	72 Veronica Place, Brooklyn, NY 11226
46	K258 - P.S. K140 - Brooklyn	141 Macon Street, Brooklyn, NY 11216
47	K305 - Academy of Arts and Letters - Brooklyn	344 Monroe Street, Brooklyn, NY 11216
48	K338 - P.S. 889 - Brooklyn	21 Hinckley Place, Brooklyn, NY 11218
49	K434 - Achievement First Crown Heights Charter School	790 E New York Avenue, Brooklyn, NY 11203
50	K458 - Brooklyn Academy High School	832 Marcy Avenue, Brooklyn, NY 11216
51	K845 - P.S. 295 - Brooklyn	330 18th Street, Brooklyn, NY 11215

#	Location Name	Address
	K864 - Success Academy Charter School	
52	- Bergen Beach - New York 4 - Brooklyn	1420 East 68 Street, Brooklyn, NY 11234
53	Linden Center Nursing and Rehab	2237 Linden Boulevard, Brooklyn, NY 11207
54	Manhattan Chelsea	303 9th Avenue, New York, NY 10001
55	Midwood High School - Brooklyn	2839 Bedford Avenue, Brooklyn, NY 11210
56	Mill Brook Senior Center	570 East 137 Street, Bronx 10454
57	Morrisania Air Rights Housing	3145 Park Avenue, Bronx, NY 10451
58	MS 35 Stephen Decatur - SCO Family of Services	272 Macdonough Street, Brooklyn, NY 11233
59	New York Foundling	2037 Utica Avenue, Brooklyn, NY 11234
60	Northern Manhattan Rehab & Nursing Ctr.	116 E 125th Street, New York, NY 10035
61	NYCHA Brooklyn	787 Atlantic Avenue, Brooklyn, NY 11238
62	NYCHA LIC	24-02 49th Avenue, Long Island City, NY 11101
63	NYCHA Manhattan	90 Church Street, New York, NY 10007
64	NYCHA Polo Grounds Block Party	2931 Frederick Douglass Boulevard, New York, NY 10039
65	P.S. 92 Adrian Hegeman	601 Parkside Avenue, Brooklyn, NY 11226
66	P.S. 93 William Prescott	31 New York Avenue, Brooklyn, NY 11216
67	P.S. 95 Sheila Mencher	3961 Hillman Avenue, Bronx, NY 10463
68	Prospect Park	48 West Drive, Brooklyn, NY 11215
69	Prospect Park	Parkside Avenue & Ocean Avenue, Brooklyn, NY 11226
70	PS 123 Mahalia Jackson - Graham Windham Services	301 W 140th Street, New York, NY 10030
71	PS 48 Schoolyard	4360 Broadway, New York, NY 10033
72	PS 52 - Rep Espaillat	650 Academy Street, New York, NY 10034
73	R075 - I.S. 075 Frank D. Paulo - Staten Island	455 Huguenot Avenue, Staten Island, NY 10312
74	R450 - Curtis High School - Staten Island	105 Hamilton Avenue, Staten Island, NY 10301
75	Red Oak Senior Center	135 West 106th Street, New York, NY 10025
76	Rikers Academy - Middle Village	6626 Metropolitan Avenue, Middle Village, NY 11379
77	Roy Wilkins Park - Jamaica Queens	177-01 Baisley Boulevard, Jamaica, NY 11434
78	Saratoga Village	33-35 Saratoga Avenue, Brooklyn, NY 11233
79	Split Rock Nursing Home	3525 Baychester Avenue, Bronx, NY 10466
80	St. Joachim and Anne Nursing and Rehab Ctr	2720 Surf Avenue, Brooklyn, NY 11224
81	Sunset Park - Brooklyn	Sunset Park, Brooklyn, NY 11220

#	Location Name	Address
82	Susan E. Wagner HS - Staten Island	1200 Manor Road, Staten Island, NY 10314
83	Team First	1075 Pugsley Avenue, Bronx, NY 10472
84	The Jefferson	1300 Flushing Avenue, Brooklyn, NY 11237
85	The Livonia	506 Livonia Avenue, Brooklyn, NY 11207
86	Theodore Roosevelt - West Bronx Academy for the Future	500 East Fordham Road, Bronx, NY 10458
87	Tompkins Square Park	Tompkins Square Park, NY 10009
88	Union Square - DOT Pedestrian Plaza	Union Square, New York, NY 10003
89	Unisphere at Flushing Meadows - Corona Park Queens	Unisphere, Flushing Meadows Corona Park, Corona, NY 11368
90	Van Dyke	392 Blake Avenue, Bronx, NY 11212
91	Wagner Houses	E 121st Street & 1st Avenue, New York, NY 10035
92	X113 - North Bronx School of Empowerment	3710 Barnes Avenue, Bronx, NY 10467
93	X117 - I.S. 117 Joseph H. Wade - Bronx	1865 Morris Avenue, Bronx, NY 10453
94	X142 - Bronx Alliance Middle School	37-50 Baychester, Avenue, Bronx, NY 10466
95	X145 - New Millennium Bronx Academy of the Arts	1000 Teller Avenue, Bronx, NY 10456
96	X166 - Bronx Early College Academy for Teaching & Learning	250 E 164th Street, Bronx, NY 10456
97	X174 - Women's Academy of Excellence - Bronx	456 White Plains Road, Bronx, NY 10473
98	X279 - P.S. 279 Captain Manuel Rivera, Jr Bronx	2100 Walton Avenue, Bronx, NY 10453
99	X415 - Collegiate Institute for Math and Science - Bronx	925 Astor Avenue, Bronx, NY 10469
100	X425 - Bronx HS for Writing and Communication Arts	800 East Gun Hill Road, Bronx, NY 10467
101	X790 - Bronx Leadership Academy II HS	730 Concourse Village West, Bronx, NY 10451



May 26, 2023

Maura Hayes-Chaffe Deputy Comptroller for Audit Office of the Comptroller 1 Centre Street Room 1100 New York, NY 10007-2341

> Re: Response to Draft Audit Report NYC Department of Health and Mental Hygiene's Health Emergency Contract with Executive Medical Services PC for COVID Related Services MJ22-085A

Dear Maura Hayes-Chaffe:

The NYC Department of Health and Mental Hygiene (Health Department or DOHMH) reviewed the draft audit report on its Emergency Contract with Executive Medical Services (EMS PC) for COVID-19 Related Services. The stated objectives of the audit were to determine whether the Health Department ensured that payments to the vendor were allowable and fully supported, staffing levels were commensurate with demand and testing and vaccinations sites were equitably established.

The Health Department thanks the auditors for the opportunity to respond to the draft report and appreciates the courtesy and professionalism of your team during the audit process.

COVID-19 pandemic provides a stark reminder of systemic health inequities that existed pre-pandemic. In collaboration with City Hall, Health + Hospitals, other City agencies and partnership with communities, the City addressed disparities in COVID-19 through community engagement, public education, and strategic placement of vaccination and testing efforts. In the post pandemic era, it will be imperative to work with policy makers and with cross-sector partners to implement the lessons learned from COVID-19 to address the compelling needs of the City's diverse communities.

Attached is the Health Department's response to the draft audit report. If you have any questions or need further information, please contact Sara Packman, Assistant Commissioner, Audit Services, at <a href="mailto:spackman@health.nyc.gov">spackman@health.nyc.gov</a> or at (347) 396-6679.

Sincerely,

Ashwin Vasan, MD, PhD

Commissioner

CC:

Emiko Otsubo, Chief Operating Officer/Executive Deputy Commissioner, DOHMH

Celia Quinn, M.D., MPH, Deputy Commissioner, Division of Disease Control, DOHMH Aaron Anderson, Chief Financial Officer/Deputy Commissioner, Division of Finance, DOHMH Sara Packman, Assistant Commissioner, Bureau of Audit Services, DOHMH

#### RESPONSE TO THE AUDITORS' DRAFT AUDIT REPORT ON

# NYC HEALTH DEPARTMENT'S EMERGENCY CONTRACT WITH EXECUTIVE MEDICAL SERVICES PC FOR COVID-19 RELATED SERVICES

#### MJ22-085A

The NYC Department of Health and Mental Hygiene (Health Department, DOHMH) reviewed the draft audit report on its Emergency Contract with Executive Medical Services (EMS PC) for COVID-19 Related Services. The stated objectives of the audit were to determine whether NYC Health Department ensured that payments to the vendor were allowable and fully supported, staffing levels were commensurate with demand and testing and vaccinations sites were equitably established.

The Health Department thanks the auditors for the opportunity to respond to the draft report and begins this response with contextualizing the COVID-19 pandemic and the EMS emergency contract.

The novel coronavirus disease (COVID-19) outbreak began in China in December 2019 and quickly spread around the world, leading to the declaration of a pandemic by the World Health Organization on March 11, 2020. The high contagiousness of COVID-19 became an overwhelming challenge to health care system around the world.

The first case of COVID-19 in New York City was confirmed on March 1, 2020. Within weeks the life of New Yorkers was forever changed as they had to adjust to a once in a century historic public health emergency. By March 31, 2020, over 1,000 New Yorkers had died from COVID-19. NYC issued guidance to avoid densely packed public spaces and to wear a mask. In addition, schools were closed and New Yorkers were introduced to remote work. As of May 18, 2023, the City had more than 3.2 million COVID-19 cases and 45,000 deaths.

By April 2020, it became apparent from the Health Department's surveillance data that the COVID-19 pandemic was exacting a toll on communities of color. Black and Latino city residents were dying at twice the rate of white and Asian New Yorkers.

The City used a multifaceted approach to address the pandemic that was grounded in guidance from the Centers for Disease Control and Prevention (CDC). This approach entailed identifying specific at-risk geographic areas and populations, working with community leaders and trusted members of the community, identifying barriers to service provision, and addressing them, and nimbly making changes to address the changing face of the pandemic.

The City also announced the unprecedented Taskforce on Racial Inclusion & Equity (TRIE) in response to the disproportionate impact of COVID-19 on communities of color. To that end, 33 neighborhoods were prioritized based on the number of COVID-19 cases, COVID-19 deaths, and other health and socioeconomic indicators.

The City, and by extension the Health Department was forced by circumstances to make COVID-19 related decisions in real time with constantly evolving situation as New York City became the epicenter in the country for surging COVID-19 cases and deaths.

The COVID-19 vaccination and testing response was a collaborative effort involving the Health Department, Health + Hospitals, City Hall, Vaccine Command Center, and other City agencies. Executive Medical Services PC (EMS) was one of the providers that the City used in its COVID-19 response efforts. Decisions about the utilization of that vendor to provide vaccination and testing services -- e.g., what sites to set up-- were determined in partnership with City Hall, Vaccine Command Center, Health Department, and other City agencies.

The EMS PC vaccine operation, as directed by the Health Department was unique. No comparable vaccination model existed prior to the pandemic due to the scale, duration and scope of the crisis, the specific needs of diverse communities and systemic health inequities. Further, the operation evolved over time with changing eligibility criteria, the introduction of new types of vaccine, and other State and federal policy and programmatic changes. The Health Department had to set the standards for this type of operation in real time.

The vaccine and testing sites were in venues that were not designed for use as clinical settings. Repurposing these sites into safe clinical settings influenced staffing levels and added staffing time -- to set up and break down equipment, to maintain line flow and separations, and to always ensure line of site to patient observation for patient safety.

In the following sections, the Health Department addresses the auditors' conclusions and recommendations.

The auditors conclude that the Health Department established testing and vaccination services in communities most affected by COVID-19. Based on the auditors' review of sampled invoices, the auditors conclude that the invoices were generally well supported and justified the Health Department payments. However, the auditors assess that the Health Department did not adequately control and monitor staffing levels and relied heavily on the vendor to set staffing levels.

The auditors make five recommendations related to assessing and setting staffing levels; conducting regular cost analysis and adjusting for efficiencies; and ensuring that verification documents include agency certification, that key decisions were documented, and that vendor performance evaluations were completed timely.

#### Issue: "DOHMH did not adequately control or monitor staffing levels"

The auditors assess that "DOHMH did not establish or communicate optimal staffing level benchmarks on the standard service levels for administering tests or vaccinations in the pandemic environment or design any formal mechanisms for assessing EMS PC's staffing levels on an ongoing basis. DOHMH's monitoring plan did not set standards for assessing whether EMS PC appropriately staffed vaccination and testing sites based on demand."

The Health Department strongly disagrees with the auditors' assessment. Contrary to the auditors' assertion, as was communicated to the auditors the Health Department used CDC guidance that requires specific onsite staffing at testing and vaccination sites. A vaccination on-site staffing include: site managers; pre-entrance screeners; registration staff; medical screeners; patient educators; vaccine inventory managers; vaccine preparers; vaccinators; runners or flow monitors; data input/management staff; interpreters; and post-vaccination observers. Staffing numbers were pre- determined based on the layout of a particular venue, number of vaccine products offered and anticipated demand. There was always an expectation that there would be demand for the COVID-19 services made available to New Yorkers. The Health Department launched multi-million dollar advertising campaigns and consistent public officials messaging to encourage testing and vaccination uptake. Actual foot traffic to the sites varied and was beyond the immediate control of the Health Department.

Contrary to the auditors' assertion, the Health Department implemented multiple mechanisms to assess EMS PC staffing levels on an ongoing basis. Standing weekly meetings were held with EMS to discuss staffing levels and other operational matters. The Health Department's approved staffing levels were recorded in weekly calendars and other operational documents. The Health Department's staff was always present at vaccination sites during hours of operation and wait-times was one indicator that the staff monitored as part of staffing level determination.

Assessment of staffing levels was a continuous and iterative process, performed on a regular basis and involved a close review of event summaries, site operations data, and verbal conversations. Evidence of this communication and documented staffing levels were provided to the auditors.

The auditors' claim that "... DOHMH did not capture the data necessary to determine how many EMS PC staff members were directly testing and vaccinating patients and how many were providing support. DOHMH was therefore unable to effectively determine the number of tests and vaccines administered per hour by each EMS PC staff member assigned to conduct the testing and administer the vaccinations. As such, DOHMH had limited means of effectively controlling expenditures or minimizing waste."

The Health Department strongly disagrees with this assessment. As directed by the CDC and discussed above, both clinical and non-clinical staff fulfill key roles at a testing and vaccination site. Before a patient presents before a nurse to be tested or vaccinated, a site-staff must complete clinical safety and operational activities. These activities include checking the individual's temperature, screening the individual to ensure that they meet eligibility criteria before electronically or manually registering the individual. These pre-vaccination and testing activities are integral to an efficient testing or vaccination event and should not be considered as separate expenditures that could have been reduced. The Health Department has strong internal controls to prevent and detect fraud, waste, and abuse and these controls were in place during the management of the EMS PC contract.

# Issue: "Invoice Analysis Shows on Average Fewer Than One Test or Vaccination Administered per Every Staff Hour Billed and Per Unit Costs of Services Varied Significantly"

The auditors stated that they ". . . believe that the absence of a quantitative monitoring plan that included an assessment of staffing levels contributed to both (1) an average of less than one test or vaccination administered for every staff hour EMS billed and (2) the wide variance among the sites in the average costs of the tests administered and vaccination shots given".

The Health Department notes that the auditors judgmentally selected invoices for testing and vaccination sites that were in a vast array of neighborhoods and were intended to serve varied populations. Likewise, community response to the availability of the COVID-19 services varied. In certain communities, longstanding distrust in the government contributed to lack of vaccine confidence. So that, while those neighborhoods were prioritized for services, the demand for those services was sometimes low. In other communities, where such obstacles did not exist, there was more demand for the services.

In addition, the sampled invoices covered time periods during which the pandemic was constantly evolving. For instance, demand for vaccine was high and supply limited in early 2021 when the vaccine initially became available. Large crowds were commonplace at vaccine sites during this time. Over time, as vaccine supply increased and more sites were opened, the long lines dissipated.

COVID-19 testing and vaccination operations were affected by the situations discussed above. It is therefore conceivable that the financial variations that the auditors noted will exist. However, the auditors' assertion that the absence of a quantitative monitoring plan contributed to these variations is not a valid one. It does not accurately depict the City and Health Department's efforts to address the COVID-19 pandemic. The activities covered in the invoices that the auditors reviewed were affected by circumstances that were beyond the control or monitoring of the Health Department.

The lives of New Yorkers were saved because of the City's efforts to provide testing and vaccination services. It is not possible to place a monetary value on a life.

The auditors present charts of average cost per COVID-19 test at sampled testing-sites, and separately, average cost per vaccination. The auditors flagged three testing sites that served older adults and three vaccination sites in at-risk neighborhoods that had average costs that were notably higher than other sites. They further stated that, "there may have been opportunities for EMS PC to reduce the number of staff utilized at these sites". We disagree with the auditors' assessment.

As was previously explained and demonstrated in site-specific floor plans that were shared with the auditors, a COVID-19 testing or vaccination site requires certain key staff roles to operate. Staffing—both clinical and non-clinical—is key factor in a venue's setup. To operate a vaccination clinic according to CDC safety standards, CDC guidance requires that on-site staff includes site managers; pre-entrance screeners; registration staff; medical screeners; patient educators; vaccine

inventory managers; vaccine preparers; vaccinators; runners or flow monitors; data input/management staff; interpreters; and post-vaccination observers. Each role is integral to the operation. Similarly, there are staffing requirements for testing sites. To comply with CDC standards, if a site was open--even if demand for testing or vaccination service was low-- it was essential that key staffing roles be filled.

Further, the auditors stated that two-thirds of the 120 vaccination pop-up sites that they reviewed had average cost of administering vaccinations of more than \$500. It is noteworthy that approximately half of these sites are schools where the services were mandated to protect the students who chose to return to in-school learning. The remaining sites were primarily in public housing buildings, long-term care facilities, and City Agencies offices. In Fall 2021, then Mayor de Blasio mandated that public school and other City employees must be vaccinated. As such these sites were in place to eliminate any barriers for vaccination and meet the need of targeted populations.

The auditors acknowledge that:

"Significant portion of testing and vaccination sites were placed in communities having significant Black and Latino Populations"

While the auditors concede that a significant portion of testing and vaccination sites were placed in communities having significant Black and Latino populations, they state that the Health Department "did not provide site-specific data that was directly used for the selection of the 30 sampled sites . . ."

No such data exists. The 30 sampled sites were selected to provide COVID-19 testing and vaccination services as part of the City's overarching approach to provide these services to identified populations.

- Fourteen of the 16 sampled testing sites were opened in schools in Fall 2020 to facilitate in-school testing of students. The other two sites are community centers in at-risk neighborhoods.
- The 14 sampled vaccination sites include public housing buildings, a correctional facility, schools, and outdoor pop-up sites. These sites were put in place to make it easier for a certain populations to get vaccinated. For instance, vaccination services were offered at the sampled schools in Fall 2021 to vaccinate students 12 and older. Per the CDC, "Administering the COVID-19 vaccine to people in all communities across the United States is dependent on having multiple vaccination sites that are both convenient and accessible".

#### The Health Department's Response to Auditors' Recommendations:

1. "Develop and implement an effective and standardized process for assessing and setting appropriate staffing levels that are commensurate with demand and document the results of these efforts."

<u>Response</u>: The Health Department agrees with the auditors' proposed recommendation for future contracts. Using the lessons learned from the City's response to the COVID-19 pandemic, the Health Department will have baseline benchmark models for staffing levels that address the changing needs of NYC's communities.

2. Conduct regular cost analyses after the initial stage of contract implementation, including—when feasible—comparisons to other providers of the same services to continuously monitor and adjust for efficiency.

<u>Response:</u> The Health Department agrees with the auditors' recommendation. The lessons learned from the City's response to the COVID-19 pandemic will help to inform future decisions.

3. Ensure that all verification documents (e.g., summary reports) include appropriate agency certification that the services claimed by the contractor were provided.

<u>Response</u>: The Health Department believes that this recommendation is not needed because a receiving report process is already in place.

4. Ensure that it formally documents key decisions regarding site selections, including reasons for opening a site, its duration, and the closing of a site.

<u>Response:</u> The Health Department disagrees with this recommendation as it is not needed. As stated above, the COVID-19 pandemic response was a collaborative effort. Key protocols and mechanisms were in place to deal with decisions surrounding testing and vaccination sites.

5. Ensure that required vendor performance evaluations are completed in PASSPort at least once annually.

<u>Response:</u> The Health Department agrees with this recommendation and will ensure that vendor performance evaluations are completed timely.



1 Centre Street, New York, NY 10007 www.comptroller.nyc.gov

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