

STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES

STANDARD AGREEMENT

STD 213 (Rev. 04/2020)

AGREEMENT NUMBER

21-10361

PURCHASING AUTHORITY NUMBER (If Applicable)

1. This Agreement is entered into between the Contracting Agency and the Contractor named below:

CONTRACTING AGENCY NAME

California Department of Public Health

CONTRACTOR NAME

Ginkgo Bioworks, Inc.

2. The term of this Agreement is:

START DATE

7/1/2021

THROUGH END DATE

8/31/2021

3. The maximum amount of this Agreement is:

\$103,693.00

One Hundred Three Thousand Six Hundred Ninety Three Dollars and Zero Cents

4. The parties agree to comply with the terms and conditions of the following exhibits, which are by this reference made a part of the Agreement.

Exhibits	Title	Pages	
Exhibit A	Scope of Work	2	
	Attachment 1	6	
Exhibit B	Budget Detail & Provisions	3	
+ -	Exhibit C*	General Terms & Conditions	04/2017
+ -	Exhibit D	Special Terms & Conditions	6
+ -	Exhibit E	IPSR	10

Items shown with an asterisk (*), are hereby incorporated by reference and made part of this agreement as if attached hereto.

These documents can be viewed at <https://www.dgs.ca.gov/OLS/Resources>

IN WITNESS WHEREOF, THIS AGREEMENT HAS BEEN EXECUTED BY THE PARTIES HERETO.

CONTRACTOR

CONTRACTOR NAME (if other than an individual, state whether a corporation, partnership, etc.)

Ginkgo Bioworks, Inc.

CONTRACTOR BUSINESS ADDRESS

27 Drydock Ave, Floor 8

CITY

Boston

STATE

MA

ZIP

02210

PRINTED NAME OF PERSON SIGNING

Reshma Shetty

TITLE

President and COO

CONTRACTOR AUTHORIZED SIGNATURE

Reshma Shetty

DATE SIGNED

07 / 02 / 2021

Reset Form

Print Form

SCO ID: 4265-2110361

STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES

STANDARD AGREEMENT

STD 213 (Rev. 04/2020)

AGREEMENT NUMBER 21-10361	PURCHASING AUTHORITY NUMBER (If Applicable)
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STATE OF CALIFORNIA

CONTRACTING AGENCY NAME

California Department of Public Health

CONTRACTING AGENCY ADDRESS

1615 Capitol Ave

CITY

Sacramento

STATE

CA

ZIP

95814

PRINTED NAME OF PERSON SIGNING

Tim Bow

TITLE

Procurement Officer

CONTRACTING AGENCY AUTHORIZED SIGNATURE

Reshma Shetty

DATE SIGNED

07 / 02 / 2021

CALIFORNIA DEPARTMENT OF GENERAL SERVICES APPROVAL

EXEMPTION (If Applicable)

Executive Order N-25-20-COVID19

TITLE	California Pilot Testing Program Signature Page 2 of 2
FILE NAME	Resaved PDF.pdf
DOCUMENT ID	55efe988ab7a21ab8db1f414d5a5ed3698e7ed45
AUDIT TRAIL DATE FORMAT	MM / DD / YYYY
STATUS	● Completed

Document History



SENT

07 / 02 / 2021

11:30:12 UTC-4

Sent for signature to Reshma Shetty
 (reshma@ginkgobioworks.com) from tzhong@ginkgobioworks.com
 IP: 216.180.94.175



VIEWED

07 / 02 / 2021

14:34:55 UTC-4

Viewed by Reshma Shetty (reshma@ginkgobioworks.com)
 IP: 144.121.6.66



SIGNED

07 / 02 / 2021

14:35:07 UTC-4

Signed by Reshma Shetty (reshma@ginkgobioworks.com)
 IP: 144.121.6.66



COMPLETED

07 / 02 / 2021

14:35:07 UTC-4

The document has been completed.

Exhibit A
Scope of Work

1. Service Overview

Contractor agrees to provide to the California Department of Public Health (CDPH) the services described herein.

In response to the Governor's Proclamation of a State of Emergency dated March 4, 2020, and Executive Order N-25-20, due to current public health emergencies, the California Department of Public Health (CDPH) has determined that CDPH must take immediate action.

Ginkgo shall provide the State of California (the "State") a holistic K-12 testing program (the "Testing Program") as described in this Statement of Work (the "SOW"). The program shall center around pooled COVID-19 testing ("Pooled Testing" or "Pooled Test") services and shall include follow-up diagnostic COVID-19 testing ("Diagnostic Testing" or "Diagnostic Test"). Ginkgo shall make the Testing Program to schools as directed by the California Department of Public Health ("CDPH," and each of such schools enrolled in the program, an "Authorized School"). Initially, Ginkgo shall provide 7 weeks of testing (the "Pilot Program"). Ginkgo and CDPH may agree to extend the Testing Program.

2. Service Location

The services shall be performed at various locations as determined by CDPH.

3. Service Hours

The services shall be provided during various hours as determined by CDPH.

4. Project Representatives

A. The project representatives during the term of this agreement will be:

California Department of Public Health Phebe Lapinig Telephone: (916) 650-6450 Fax: N/A E-mail: Phebe.Lapinig@cdph.ca.gov	Ginkgo Bioworks, Inc. Laura Bronner Telephone: (877) 422-5362 Fax: N/A E-mail: lbronner@ginkgobioworks.com
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B. Direct all inquiries to:

California Department of State Hospitals Attention: Darci Delgado 1600 9 th Street Sacramento, CA 95814 Telephone: (530) 574-5144 Fax: N/A E-mail: Darci.Delgado@dhs.ca.gov	Ginkgo Bioworks, Inc. Attention: Laura Bronner 27 Drydock Ave, Floor 8 Boston, MA 02210 Telephone: (877) 422-5362 Fax: N/A E-mail: lbronner@ginkgobioworks.com
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Exhibit A
Scope of Work

C. All payments from CDPH to the Contractor; shall be sent to the following address:

Remittance Address
Contractor: [Ginkgo Bioworks, Inc.]
Attention "Cashier": Laura Bronner
27 Drydock Ave, Floor 8
Boston, MA 02210
877-422-5362
lbronner@ginkgobioworks.com

D. Either party may make changes to the information above by giving written notice to the other party. Said changes shall not require an amendment to this agreement.

5. Services to be Performed

For information on services to be performed, please refer to Attachment 1 of this Exhibit.

Statement of Work

Ginkgo shall provide the State of California (the “State”) a holistic K-12 testing program (the “Testing Program”) as described in this Statement of Work (the “SOW”). The program shall center around pooled COVID-19 testing (“Pooled Testing” or “Pooled Test”) services and shall include follow-up diagnostic COVID-19 testing (“Diagnostic Testing” or “Diagnostic Test”). Ginkgo shall make the Testing Program to schools as directed by the California Department of Public Health (“CDPH,” and each of such schools enrolled in the program, an “Authorized School”).

Initially, Ginkgo shall provide 7 weeks of testing (the “Pilot Program”). Ginkgo and CDPH may agree to extend the Testing Program.

Section I: Overview of Testing Program

The Testing Program is comprised of 7 components:

Component	Fee	Estimated total for 7-week pilot
A. Pooled Test Kits	\$20 per kit	\$4,000
B. Pooled Testing Services	\$130 per pooled test	\$26,368
C. Diagnostic Testing Services	\$8 per test	\$425
D. Logistics	\$125-450 per courier pickup	\$10,500
E. Staffing	\$51,822 total for 7-week pilot	\$51,822
F. Whole Genome Sequencing	\$200 per sample successfully sequenced	\$600
G. Support Services	\$10,000 for 7-week pilot	\$10,000
Total		\$103,693

Section II: Testing Program Services

A. Pooled Test Kits:

Ginkgo shall provide the following services in connection with Pooled Testing to each Authorized School.

1. Pooled Testing Kits. Ginkgo shall provide collection kits for Pooled Testing (the “Pooled Testing Kits”). Kits will ship in units of 40 (i.e. each box includes 40 barcoded tubes and 800 swabs). Each Authorized School will receive Pooled Testing Kits in multiples of 40.
 - The Pooled Testing Kits shall include
 - Barcoded large pooled testing tubes and twenty-five (25) individually packaged swabs,
 - Alcohol wipes,
 - Return packaging and prepaid shipping labels if needed, and
 - USB barcode scanner to register test kits.
 - Each Pooled Testing Kit shall:
 - Allow for a minimum of 5 and no greater than 25 specimens per pool,
 - Be barcoded in such a manner that Ginkgo or the Laboratory cannot identify any Participant who provided part of any specimen,
 - Enable specimen collection via anterior nasal swabs,
 - Be compatible with the tests run by the Laboratory, and
 - Enable observed self-collection; assistance of healthcare professionals is available.

B. Pooled Test Services:

1. Consent Forms. Ginkgo shall provide each Authorized School with a form to obtain the informed consent (the “Informed Consent”) of students, teachers and other personnel of Authorized Schools who wish to participate in the Testing Program (the “Participants”). The form shall be provided in both digital and paper format and shall cover Pooled Testing and Diagnostic Testing. The paper format is available in 23 languages.
 - The digital consent is immediately registered in the online portal, an integrated digital platform for viewing testing results and other communication (the “Portal”).
 - The paper consent process requires staff members of the Authorized School (“School Staff”) to enter each Participant’s consent into the Portal. If a Participant is in a positive pool and Diagnostic Testing is required, the School Staff shall also enter such Participant’s demographic information.
2. Specimen Analysis. Ginkgo shall arrange for processing of the collected specimens a CLIA-certified laboratory validated by Ginkgo (the “Laboratory”) with the following qualifications.

- Each Laboratory will use testing methods with an Emergency Use Authorization for Diagnostic Testing or a validated Laboratory Developed Tests for Pooled Testing. The pooled validation approach is based on the FDA's guidance in the swab pool section of the Molecular Diagnostic Template for Laboratories. Summaries of validation reports for the Laboratories within Ginkgo's network can be viewed at: <https://www.Ginkgobyginkgo.com/pooling-lab-validation-summaries/>
 - Each Laboratory is validated by Ginkgo and shall have demonstrated the ability to detect SARS-CoV-2 virus with a PCR test or another molecular test with greater than 95% sensitivity and greater than 95% specificity.
 - Ginkgo shall ensure each Laboratory will submit test results to CDPH as required under state regulation.
3. Turnaround Time. Ginkgo shall deliver Pooled Testing results to School Staff by 4:00 p.m. Pacific Standard Time 2 calendar days from the date the collected specimens were picked up for shipment from and registered by the Authorized School.
4. Results Reporting.

During the Testing Program, Ginkgo shall track and record all data/information necessary to complete a testing summary weekly, which summary shall include:

- The name of the Authorized Schools served by Ginkgo and the aggregate number of Authorized Schools,
- Total number of Pooled Tests and Diagnostic Tests processed by each Authorized School,
- Total number of Pooled Testing results and Individual Diagnostic Testing results by outcome (positive, negative, invalid, or other similar categories), and
- Other data as may be reasonably requested by CDPH.

During the testing program, Ginkgo shall make available test results for each pool (positive, negative, or indeterminate) to relevant Authorized School administrators via the online portal (administrators can elect which district and school-level personnel receive results). Administrators will receive an email notification in the event of a positive pool.

C. Diagnostic Testing Services

1. Diagnostic Testing Kits. In the event of a positive pool result, Ginkgo shall administer rapid antigen tests (the "Rapid Antigen Test"). The Rapid Antigen Tests shall be the preferred choice for reflex testing of a positive pooled sample. Ginkgo will:
- Enable COVID-19 testing with anterior nasal swabs samples during the Pilot Program.
 - Enable observed self-collection or administered sample collection of Rapid Antigen Test.
2. Results Reporting. Please see Section II. Item A. 5 for results reporting.

D. Logistics Services

Return Shipping. Ginkgo shall establish courier services to transport specimens to the Laboratory. Courier fee is listed below and can be routed to maximize pickups, particularly within districts.

Distance from site to lab (miles)	Rate
0 - 25	\$86.50
26 - 50	\$172.50
51 - 100	\$345
101-150	\$450

E. Staffing

1. Support staff: Ginkgo will provide support staff for all Authorized Schools in the Testing Program. Support Staff will provide 2 days per week of onsite support for 6 hours per day at each school site. Duties include:
 - Order Pooled Testing Kits and Diagnostic Testing Kits and provide Ginkgo with sufficient delivery instructions;
 - Ensure only consented individuals participate in the testing program;
 - Supervise specimen collection in accordance with the instructions provided by Ginkgo;
 - Seal and scan barcoded tubes containing collected specimens;
 - Ensure the collected specimens are ready for pick up by shipping or courier service by 4:00 p.m. on the day of testing;
 - Assist with tracking which Participants are in a pool; and
 - Work with Authorized School to organize Diagnostic Testing in the event of positive pools
 - Administer, result and report Rapid Antigen Testing in the event of a positive pool.
 - Ginkgo support staff will coordinate courier shipment of pooled testing samples.
 - Coordinate provision of take-home testing kits for classrooms that have positive pooled samples.

2. Site Coordinator: Ginkgo shall provide on-site staffing support to Authorized Schools
 - Ginkgo shall assign a site coordinator (the “Site Coordinator”) to implement and operationalize the Testing Program. The Site Coordinator shall assist and oversee Authorized Schools with logistics, consent collection, specimen collection, labeling and tracking of collected specimens, review and communication of Pooled Testing results, coordination of training, and development of testing plan for Diagnostic Testing and implementation of such testing plan.
 - Site coordinator will provide program support. Ginkgo shall provide remote program support to maximize participation rates in school testing by increasing community

awareness and support for school testing. Ginkgo shall drive school outreach, public relations efforts, and marketing efforts. Ginkgo shall work with the State and school districts to engage with and educate communities, connect with community leaders and influencers, support informational sessions with parents, and contemplate incentive programs.

F. Whole Genomic Sequencing

1. Sequencing by Ginkgo. At the request of CDPH, Ginkgo will perform whole genome sequencing of positive results at Ginkgo's sequencing lab, using a sequencing method optimized for pooled samples.

Consensus sequence, together with the associated sequencing data files, will be delivered to the State for the sequences that meet industry standards.

G. Support Services

1. Initial recruitment:
 - Ginkgo will conduct initial school outreach to district administration regarding testing program. This can occur in any or all of the following medium: via webinars, phone calls, email communication.
 - Will provide of web-based and paper informational materials regarding provided services and pooled testing.
2. Onboarding
 - Ginkgo will provide technical support for the IT platform for new school sites and districts during the onboarding phase.
 - Ginkgo will develop site specific program dashboards that contain metrics related to consented individuals, pooled testing and individual diagnostic testing.
 - Ginkgo will establish administrative profiles to allow for access to testing data.
3. Virtual training. Ginkgo shall provide virtual training to Authorized Schools. The training sessions may take the form of a live or prerecorded webinar covering the following topics:
 - Steps to obtain informed consent,
 - Protocols for conducting Pooled and Diagnostic Testing
 - How to use the Portal to track results of Pooled and Diagnostic Testing
4. In person training. Ginkgo shall provide on-demand technical assistance to School Staff in the form of online support via digital platform and call-in support.
 - Delivery issues,

- Specimen collection,
 - Labeling of tubes,
 - Transporting samples, and
 - Test results
5. Call-center services. Call center and/or digital support platform shall be available at between 7:00 a.m. and 4:00 p.m. Pacific Standard Time, Monday through Friday, excluding federal holidays. In addition to online support via digital platform, Ginkgo will answer questions from School Staff via email and shall provide the support email address to School Staff.

Section III: Invoice Schedule

Payment Terms

All invoices are generated on first day of the month and include services rendered in the prior month. Refer to Exhibit B for details.

Exhibit B
Budget Detail and Payment Provisions

1. Invoicing and Payment

- A. In no event shall the Contractor request reimbursement from the State for obligations entered into or for costs incurred prior to the commencement date or after the expiration of this Agreement.
- B. For services satisfactorily rendered, and upon receipt and approval of the invoices, the State agrees to compensate the Contractor for actual expenditures incurred in accordance with the amounts in Exhibit A Attachment 1.
- C. Invoices shall include the Agreement Number and shall be submitted in triplicate not more frequently than monthly in arrears to:

Phebe Lapinig
California Department of Public Health
Emergency Preparedness Office
MS 7002
1615 Capitol Ave, 73.373
Sacramento, CA 95814

- D. Invoice shall:
 - 1) Be prepared on Contractor letterhead. If invoices are not on produced letterhead invoices must be signed by an authorized official, employee or agent certifying that the expenditures claimed represent activities performed and are in accordance with Exhibit A.
 - 2) Invoices must be submitted to CDPH either electronically or in hard copies.
 - 3) Identify the billing and/or performance period covered by the invoice.
 - 4) Itemize costs for the billing period in the same or greater level of detail as indicated in this agreement. Subject to the terms of this agreement, reimbursement may only be sought for those costs and/or cost categories expressly identified as allowable in this agreement and approved by CDPH.

E. Amounts Payable

The amounts payable under this agreement shall not exceed: \$103,693.00

2. Budget Contingency Clause

- A. It is mutually agreed that if the Budget Act of the current year and/or any subsequent years covered under this Agreement does not appropriate sufficient funds for the program, this Agreement shall be of no further force and effect. In this event, the State shall have no liability to pay any funds whatsoever to Contractor or to furnish any other considerations under this Agreement and Contractor shall not be obligated to perform any provisions of this Agreement.
- B. If funding for any fiscal year is reduced or deleted by the Budget Act for purposes of this program, the State shall have the option to either cancel this Agreement with no liability occurring to the State, or offer an agreement amendment to Contractor to reflect the reduced amount.

Exhibit B
Budget Detail and Payment Provisions

3. Prompt Payment Clause

Payment will be made in accordance with, and within the time specified in, Government Code Chapter 4.5, commencing with Section 927.

4. Timely Submission of Final Invoice

A. A final undisputed invoice shall be submitted for payment no more than *thirty (30)* calendar days following the expiration or termination date of this agreement, unless a later or alternate deadline is agreed to in writing by the program contract manager. Said invoice should be clearly marked "Final Invoice", indicating that all payment obligations of the State under this agreement have ceased and that no further payments are due or outstanding. The State may, at its discretion, choose not to honor any delinquent final invoice if the Contractor fails to obtain prior written State approval of an alternate final invoice submission deadline.

5. Expense Allowability / Fiscal Documentation

- A. Invoices, received from the Contractor and accepted for payment by the State, shall not be deemed evidence of allowable agreement costs.
- B. Contractor shall maintain for review and audit and supply to CDPH upon request, adequate documentation of all expenses claimed pursuant to this agreement to permit a determination of expense allowability.
- C. If the allowability of an expense cannot be determined by the State because invoice detail, fiscal records, or backup documentation is nonexistent or inadequate according to generally accepted accounting principles or practices, all questionable costs may be disallowed and payment may be withheld by the State. Upon receipt of adequate documentation supporting a disallowed or questionable expense, reimbursement may resume for the amount substantiated and deemed allowable.

6. Recovery of Overpayments

- A. Contractor agrees that claims based upon the terms of this agreement or an audit finding and/or an audit finding that is appealed and upheld, will be recovered by the State by one of the following options:
 - 1) Contractor's remittance to the State of the full amount of the audit exception within 30 days following the State's request for repayment;
 - 2) A repayment schedule agreeable between the State and the Contractor.
- B. The State reserves the right to select which option as indicated above in paragraph A will be employed and the Contractor will be notified by the State in writing of the claim procedure to be utilized.
- C. Interest on the unpaid balance of the audit finding or debt will accrue at a rate equal to the monthly average of the rate received on investments in the Pooled Money Investment Fund commencing on the date that an audit or examination finding is mailed to the Contractor, beginning 30 days after Contractor's receipt of the State's demand for repayment.

Exhibit B
Budget Detail and Payment Provisions

- D. If the Contractor has filed a valid appeal regarding the report of audit findings, recovery of the overpayments will be deferred until a final administrative decision on the appeal has been reached. If the Contractor loses the final administrative appeal, Contractor shall repay, to the State, the over-claimed or disallowed expenses, plus accrued interest. Interest accrues from the Contractor's first receipt of State's notice requesting reimbursement of questioned audit costs or disallowed expenses.

Exhibit D
Special Terms and Conditions [Rev 06-2019]

(Applicable to consultant and personal service contracts)

The provisions herein apply to this Agreement unless the provisions are removed by reference, or superseded by an alternate provision appearing in Exhibit E of this Agreement.

Index

1. Cancellation
2. Intellectual Property Rights
3. Confidentiality of Information
4. Dispute Resolution Process
5. Excise Taxes

Exhibit D
Special Terms and Conditions

1. Cancellation

- A. This agreement may be cancelled by CDPH **without cause** upon 30 calendar days advance written notice to the Contractor.
- B. CDPH reserves the right to cancel or terminate this agreement immediately for cause. The Contractor may submit a written request to terminate this agreement only if CDPH substantially fails to perform its responsibilities as provided herein.
- C. The term “for cause” shall mean that the Contractor fails to meet the terms, conditions, and/or responsibilities of this agreement.
- D. Agreement cancellation or termination shall be effective as of the date indicated in CDPH’s notification to the Contractor. The notice shall stipulate any final performance, invoicing or payment requirements.
- E. Upon receipt of a notice of cancellation or termination, the Contractor shall take immediate steps to stop performance and to cancel or reduce subsequent agreement costs.
- F. In the event of early cancellation or termination, the Contractor shall be entitled to compensation for services performed satisfactorily under this agreement and expenses incurred up to the date of cancellation and any non-cancelable obligations incurred in support of this agreement.

2. Intellectual Property Rights

A. Ownership

- 1) Except where CDPH has agreed in a signed writing to accept a license, CDPH shall be and remain, without additional compensation, the sole owner of any and all rights, title and interest in all Intellectual Property, from the moment of creation, whether or not jointly conceived, that are made, conceived, derived from, or reduced to practice by Contractor or CDPH and which are deliverables under this Agreement.
- 2) For the purposes of this Agreement, Intellectual Property means recognized protectable rights and interest such as: patents, (whether or not issued) copyrights, trademarks, service marks, applications for any of the foregoing, inventions, trade secrets, trade dress, logos, insignia, color combinations, slogans, moral rights, right of publicity, author’s rights, contract and licensing rights, works, mask works, industrial design rights, rights of priority, know how, design flows, methodologies, devices, business processes, developments, innovations, good will and all other legal rights protecting intangible proprietary information as may exist now and/or here after come into existence, and all renewals and extensions, regardless of whether those rights arise under the laws of the United States, or any other state, country or jurisdiction.
- 3) For the purposes of the definition of Intellectual Property, “works” means all literary works, writings and printed matter including the medium by which they are recorded or reproduced, photographs, art work, pictorial and graphic representations and works of a similar nature, film, motion pictures, digital images, animation cells, and other audiovisual works including positives and negatives thereof, sound recordings, tapes, educational materials, interactive videos and any other materials or products created, produced, conceptualized and fixed in a tangible medium of expression. It includes preliminary and final products and any materials and information developed for the purposes of producing those final products. Works does not include articles submitted to peer review or reference journals or independent research projects.

Exhibit D
Special Terms and Conditions

- 4) In the performance of this Agreement, Contractor will exercise and utilize certain of its Intellectual Property in existence prior to the effective date of this Agreement. In addition, under this Agreement, Contractor may access and utilize certain of CDPH's Intellectual Property in existence prior to the effective date of this Agreement. Except as otherwise set forth herein, Contractor shall not use any of CDPH's Intellectual Property now existing or hereafter existing for any purposes without the prior written permission of CDPH. Except as otherwise set forth herein, neither the Contractor nor CDPH shall give any ownership interest in or rights to its Intellectual Property and improvements thereof to the other Party. If during the term of this Agreement, Contractor accesses any third-party Intellectual Property that is licensed to CDPH, Contractor agrees to abide by all license and confidentiality restrictions applicable to CDPH in the third-party's license agreement.
- 5) Contractor agrees to cooperate with CDPH in establishing or maintaining CDPH's exclusive rights in the Intellectual Property, and in assuring CDPH's sole rights against third parties with respect to the Intellectual Property.
- 6) To the extent applicable, Contractor further agrees to assist and cooperate with CDPH in all reasonable respects, and execute all documents and, subject to reasonable availability, give testimony and take all further acts reasonably necessary to acquire, transfer, maintain, and enforce CDPH's Intellectual Property rights and interests.

B. Retained Rights / License Rights

- 1) Except for Intellectual Property referenced in Section 2.A.(1) of this Exhibit D, Contractor shall retain title to all of its Intellectual Property to the extent such Intellectual Property is in existence prior to the effective date of this Agreement..
- 2) Nothing in this provision shall restrict, limit, or otherwise prevent Contractor from using any ideas, concepts, know-how, methodology or techniques related to its performance under this Agreement, provided that Contractor's use does not infringe the patent, copyright, trademark rights, license or other Intellectual Property rights of CDPH or third party, or result in a breach or default of any provisions of this Exhibit or result in a breach of any provisions of law relating to confidentiality.

C. Copyright

Contractor agrees that for purposes of copyright law, all works [as defined in Section a, subparagraph (2)(a)] of authorship made by or on behalf of Contractor in connection with Contractor's performance of this Agreement shall be deemed "works made for hire". Contractor further agrees that the work of each person utilized by Contractor in connection with the performance of this Agreement will be a "work made for hire," whether that person is an employee of Contractor or that person has entered into an agreement with Contractor to perform the work. Contractor shall enter into a written agreement with any such person that: (i) all work performed for Contractor shall be deemed a "work made for hire" under the Copyright Act and (ii) that person shall assign all right, title, and interest to CDPH to any work product made, conceived, derived from, or reduced to practice by Contractor or CDPH and which result directly or indirectly from this Agreement.

- 1) All materials, including, but not limited to, visual works or text, reproduced or distributed pursuant to this Agreement that include Intellectual Property made, conceived, derived from, or reduced to practice by Contractor or CDPH and which result directly or indirectly from this Agreement, shall include CDPH's notice of copyright, which shall read in 3mm or larger typeface: "© [Enter Current Year e.g., 2007, etc.], California Department of Public Health. This material may not be reproduced or disseminated without prior written permission from the California Department of Public Health." This notice should be placed prominently on the materials and set apart from other matter on the page where it appears. Audio productions shall contain a similar audio notice of copyright.

Exhibit D
Special Terms and Conditions

Except as provided herein, Contractor agrees that its performance of this Agreement shall not be dependent upon or include any Intellectual Property of Contractor or third party without first: (i) obtaining CDPH's prior written approval; and (ii) granting to or obtaining for CDPH, without additional compensation, a license, as described in Paragraph b of this provision, for any of Contractor's or third-party's Intellectual Property in existence prior to the effective date of this Agreement. If such a license upon the these terms is unattainable, and CDPH determines that the Intellectual Property should be included in or is required for Contractor's performance of this Agreement, Contractor shall obtain a license under terms acceptable to CDPH.

D. Warranties

- 1) Contractor represents and warrants that:
 - a. It is free to enter into and fully perform this Agreement.
 - b. It has secured and will secure all rights and licenses necessary for its performance of this Agreement.
 - c. Neither Contractor's performance of this Agreement, nor the exercise by either Party of the rights granted in this Agreement, nor any use, reproduction, manufacture, sale, offer to sell, import, export, modification, public and private display/performance, distribution, and disposition of the Intellectual Property made, conceived, derived from, or reduced to practice by Contractor or CDPH and which result directly or indirectly from this Agreement will infringe upon or violate any Intellectual Property right, non-disclosure obligation, or other proprietary right or interest of any third-party or entity now existing under the laws of, or hereafter existing or issued by, any state, the United States, or any foreign country. There is currently no actual or threatened claim by any such third party based on an alleged violation of any such right by Contractor.
 - d. Neither Contractor's performance nor any part of its performance will violate the right of privacy of, or constitute a libel or slander against any person or entity.
 - e. It has secured and will secure all rights and licenses necessary for Intellectual Property including, but not limited to, consents, waivers or releases from all authors of music or performances used, and talent (radio, television and motion picture talent), owners of any interest in and to real estate, sites, locations, property or props that may be used or shown.
 - f. It has not granted and shall not grant to any person or entity any right that would or might derogate, encumber, or interfere with any of the rights granted to CDPH in this Agreement.
 - g. It has appropriate systems and controls in place to ensure that state funds will not be used in the performance of this Agreement for the acquisition, operation or maintenance of computer software in violation of copyright laws.
 - h. It has no knowledge of any outstanding claims, licenses or other charges, liens, or encumbrances of any kind or nature whatsoever that could affect in any way Contractor's performance of this Agreement.
- 2) CDPH MAKES NO WARRANTY THAT THE INTELLECTUAL PROPERTY RESULTING FROM THIS AGREEMENT DOES NOT INFRINGE UPON ANY PATENT, TRADEMARK, COPYRIGHT OR THE LIKE, NOW EXISTING OR SUBSEQUENTLY ISSUED.

E. Intellectual Property Indemnity

- 1) Contractor shall indemnify, defend and hold harmless CDPH and its licensees and assignees, and its officers, directors, employees, agents, representatives, successors, and users of its products, ("Indemnitees") from and against all claims, actions, damages, losses, liabilities (or actions or proceedings with respect to any thereof), whether or not rightful, arising from any and all actions or

Exhibit D
Special Terms and Conditions

claims by any third party or expenses related thereto (including, but not limited to, all legal expenses, court costs, and attorney's fees incurred in investigating, preparing, serving as a witness in, or defending against, any such claim, action, or proceeding, commenced or threatened) to which any of the Indemnitees may be subject, whether or not Contractor is a party to any pending or threatened litigation, which arise out of or are related to (i) the incorrectness or breach of any of the representations, warranties, covenants or agreements of Contractor pertaining to Intellectual Property; or (ii) any Intellectual Property infringement, or any other type of actual or alleged infringement claim, arising out of CDPH's use, reproduction, manufacture, sale, offer to sell, distribution, import, export, modification, public and private performance/display, license, and disposition of the Intellectual Property made, conceived, derived from, or reduced to practice by Contractor or CDPH and which result directly or indirectly from this Agreement. This indemnity obligation shall apply irrespective of whether the infringement claim is based on a patent, trademark or copyright registration that issued after the effective date of this Agreement. CDPH reserves the right to participate in and/or control, at Contractor's expense, any such infringement action brought against CDPH.

Should any Intellectual Property licensed by the Contractor to CDPH under this Agreement become the subject of an Intellectual Property infringement claim, Contractor will exercise its authority reasonably and in good faith to preserve CDPH's right to use the licensed Intellectual Property in accordance with this Agreement at no expense to CDPH. CDPH shall have the right to monitor and appear through its own counsel (at Contractor's expense) in any such claim or action. In the defense or settlement of the claim, Contractor may obtain the right for CDPH to continue using the licensed Intellectual Property; or, replace or modify the licensed Intellectual Property so that the replaced or modified Intellectual Property becomes non-infringing provided that such replacement or modification is functionally equivalent to the original licensed Intellectual Property. If such remedies are not reasonably available, CDPH shall be entitled to a refund of all monies paid under this Agreement, without restriction or limitation of any other rights and remedies available at law or in equity.

- 2) Contractor agrees that damages alone would be inadequate to compensate CDPH for breach of any term of this Intellectual Property Exhibit by Contractor. Contractor acknowledges CDPH would suffer irreparable harm in the event of such breach and agrees CDPH shall be entitled to obtain equitable relief, including without limitation an injunction, from a court of competent jurisdiction, without restriction or limitation of any other rights and remedies available at law or in equity.

F. Survival

The provisions set forth herein shall survive any termination or expiration of this Agreement or any project schedule.

3. Confidentiality of Information

- A. The Contractor and its employees, agents, or subcontractors shall protect from unauthorized disclosure names and other identifying information concerning persons either receiving services pursuant to this Agreement or persons whose names or identifying information become available or are disclosed to the Contractor, its employees, agents, or subcontractors as a result of services performed under this Agreement, except for statistical information not identifying any such person.
- B. The Contractor and its employees, agents, or subcontractors shall not use such identifying information for any purpose other than carrying out the Contractor's obligations under this Agreement.
- C. The Contractor and its employees, agents, or subcontractors shall promptly transmit to the CDPH Program Contract Manager all requests for disclosure of such identifying information not emanating from the client or person.
- D. The Contractor shall not disclose, except as otherwise specifically permitted by this Agreement or

Exhibit D
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authorized by the client, any such identifying information to anyone other than CDPH without prior written authorization from the CDPH Program Contract Manager, except if disclosure is required by State or Federal law.

- E. For purposes of this provision, identity shall include, but not be limited to name, identifying number, symbol, or other identifying particular assigned to the individual, such as finger or voice print or a photograph.
- F. As deemed applicable by CDPH, this provision may be supplemented by additional terms and conditions covering personal health information (PHI) or personal, sensitive, and/or confidential information (PSCI). Said terms and conditions will be outlined in one or more exhibits that will either be attached to this Agreement or incorporated into this Agreement by reference.

4 Dispute Resolution Process

Contractor grievance exists whenever there is a dispute arising from CDPH's action in the administration of an agreement. If there is a dispute or grievance between the Contractor and CDPH, the Contractor must seek resolution using the procedure outlined below.

- A. The Contractor should first informally discuss the problem with the CDPH Program Contract Manager. If the problem cannot be resolved informally, the Contractor shall direct its grievance together with any evidence, in writing, to the program Branch Chief. The grievance shall state the issues in dispute, the legal authority or other basis for the Contractor's position and the remedy sought. The Branch Chief shall render a decision within ten (10) working days after receipt of the written grievance from the Contractor. The Branch Chief shall respond in writing to the Contractor indicating the decision and reasons therefore. If the Contractor disagrees with the Branch Chief's decision, the Contractor may appeal to the second level.
- B. When appealing to the second level the Contractor must prepare an appeal indicating the reasons for disagreement with the Branch Chief's decision. The Contractor shall include with the appeal a copy of the Contractor's original statement of dispute along with any supporting evidence and a copy of the Branch Chief's decision. The appeal shall be addressed to the Deputy Director of the division in which the branch is organized within ten (10) working days from receipt of the Branch Chief's decision. The Deputy Director of the division in which the branch is organized or his/her designee shall meet with the Contractor to review the issues raised. A written decision signed by the Deputy Director of the division in which the branch is organized or his/her designee shall be directed to the Contractor within twenty (20) working days of receipt of the Contractor's second level appeal. The decision rendered by the Deputy Director or his/her designee shall be the final administrative determination of the Department.
- C. Unless otherwise stipulated in writing by CDPH, all dispute, grievance and/or appeal correspondence shall be directed to the CDPH Program Contract Manager.
- D. There are organizational differences within CDPH's funding programs and the management levels identified in this dispute resolution provision may not apply in every contractual situation. When a grievance is received and organizational differences exist, the Contractor shall be notified in writing by the CDPH Program Contract Manager of the level, name, and/or title of the appropriate management official that is responsible for issuing a decision at a given level.

5 Excise Tax

The State of California is exempt from federal excise taxes, and no payment will be made for any taxes levied on employees' wages. The State will pay for any applicable State of California or local sales or use taxes on the services rendered or equipment or parts supplied pursuant to this Agreement. California may pay any applicable sales and use tax imposed by another state.

Exhibit E
Information Privacy and Security Requirements
(For Non-HIPAA/HITECH Act Contracts)

This Information Privacy and Security Requirements Exhibit (For Non-HIPAA/HITECH Act Contracts) (hereinafter referred to as “this Exhibit”) sets forth the information privacy and security requirements Contractor is obligated to follow with respect to all personal and confidential information (as defined herein) disclosed to Contractor, or collected, created, maintained, stored, transmitted or used by Contractor for or on **behalf** of the California Department of Public Health (hereinafter “CDPH”), pursuant to Contractor’s agreement with CDPH. (Such personal and confidential information is referred to herein collectively as “CDPH PCI”.) CDPH and Contractor desire to protect the privacy and provide for the security of CDPH PCI pursuant to this Exhibit and in compliance with state and federal laws applicable to the CDPH PCI.

- I. Order of Precedence: With respect to information privacy and security requirements for all CDPH PCI, the terms and conditions of this Exhibit shall take precedence over any conflicting terms or conditions set forth in any other part of the agreement between Contractor and CDPH, including Exhibit A (Scope of Work), all other exhibits and any other attachments, and shall prevail over any such conflicting terms or conditions.
- II. Effect on lower tier transactions: The terms of this Exhibit shall apply to all contracts, subcontracts, and subawards, and the information privacy and security requirements Contractor is obligated to follow with respect to CDPH PCI disclosed to Contractor, or collected, created, maintained, stored, transmitted or used by Contractor for or on behalf of CDPH, pursuant to Contractor’s agreement with CDPH. When applicable the Contractor shall incorporate the relevant provisions of this Exhibit into each subcontract or subaward to its agents, subcontractors, or independent consultants.
- III. Definitions: For purposes of the agreement between Contractor and CDPH, including this Exhibit, the following definitions shall apply:
 - A. Breach:

“Breach” means:

 1. the unauthorized acquisition, access, use, or disclosure of CDPH PCI in a manner which compromises the security, confidentiality or integrity of the information; or
 2. the same as the definition of "breach of the security of the system" set forth in California Civil Code section 1798.29(f).
 - B. Confidential Information: “Confidential information” means information that:
 1. does not meet the definition of “public records” set forth in California Government Code section 6252(e), or is exempt from disclosure under any of the provisions of Section 6250, et seq. of the California Government Code or any other applicable state or federal laws; or
 2. is contained in documents, files, folders, books or records that are clearly labeled, marked or designated with the word “confidential” by CDPH.
 - C. Disclosure: “Disclosure” means the release, transfer, provision of, access to, or divulging in any manner of information outside the entity holding the information.

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- D. PCI: “PCI” means “personal information” and “confidential information” (as these terms are defined herein):
- E. Personal Information: “Personal information” means information, in any medium (paper, electronic, oral) that:
1. directly or indirectly collectively identifies or uniquely describes an individual; or
 2. could be used in combination with other information to indirectly identify or uniquely describe an individual, or link an individual to the other information; or
 3. meets the definition of “personal information” set forth in California Civil Code section 1798.3, subdivision (a) or
 4. is one of the data elements set forth in California Civil Code section 1798.29, subdivision (g)(1) or (g)(2); or
 5. meets the definition of “medical information” set forth in either California Civil Code section 1798.29, subdivision (h)(2) or California Civil Code section 56.05, subdivision (j); or
 6. meets the definition of “health insurance information” set forth in California Civil Code section 1798.29, subdivision (h)(3); or
 7. is protected from disclosure under applicable state or federal law.
- F. Security Incident: “Security Incident” means:
1. an attempted breach; or
 2. the attempted or successful unauthorized access or disclosure, modification or destruction of CDPH PCI, in violation of any state or federal law or in a manner not permitted under the agreement between Contractor and CDPH, including this Exhibit; or
 3. the attempted or successful modification or destruction of, or interference with, Contractor’s system operations in an information technology system, that negatively impacts the confidentiality, availability or integrity of CDPH PCI; or
 4. any event that is reasonably believed to have compromised the confidentiality, integrity, or availability of an information asset, system, process, data storage, or transmission. Furthermore, an information security incident may also include an event that constitutes a violation or imminent threat of violation of information security policies or procedures, including acceptable use policies.
- G. Use: “Use” means the sharing, employment, application, utilization, examination, or analysis of information.
- IV. Disclosure Restrictions: The Contractor and its employees, agents, and subcontractors shall protect from unauthorized disclosure any CDPH PCI. The Contractor shall not disclose, except as otherwise specifically permitted by the agreement between Contractor and CDPH (including this Exhibit), any

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CDPH PCI to anyone other than CDPH personnel or programs without prior written authorization from the CDPH Program Contract Manager, except if disclosure is required by State or Federal law.

- V. Use Restrictions: The Contractor and its employees, agents, and subcontractors shall not use any CDPH PCI for any purpose other than performing the Contractor's obligations under its agreement with CDPH.
- VI. Safeguards: The Contractor shall implement administrative, physical, and technical safeguards that reasonably and appropriately protect the privacy, confidentiality, security, integrity, and availability of CDPH PCI, including electronic or computerized CDPH PCI. At each location where CDPH PCI exists under Contractor's control, the Contractor shall develop and maintain a written information privacy and security program that includes administrative, technical and physical safeguards appropriate to the size and complexity of the Contractor's operations and the nature and scope of its activities in performing its agreement with CDPH, including this Exhibit, and which incorporates the requirements of Section VII, Security, below. Contractor shall provide CDPH with Contractor's current and updated policies within five (5) business days of a request by CDPH for the policies.
- VII. Security: The Contractor shall take any and all steps reasonably necessary to ensure the continuous security of all computerized data systems containing CDPH PCI. These steps shall include, at a minimum, complying with all of the data system security precautions listed in the Contractor Data Security Standards set forth in Attachment 1 to this Exhibit.
- VIII. Security Officer: At each place where CDPH PCI is located, the Contractor shall designate a Security Officer to oversee its compliance with this Exhibit and to communicate with CDPH on matters concerning this Exhibit.
- IX. Training: The Contractor shall provide training on its obligations consistent with those under this Exhibit, at its own expense, to all of its employees who assist in the performance of Contractor's obligations under Contractor's agreement with CDPH, including this Exhibit, or otherwise use or disclose CDPH PCI.
 - A. The Contractor shall require each employee who receives training to certify, either in hard copy or electronic form, the date on which the training was completed.
 - B. The Contractor shall retain each employee's certifications for CDPH inspection for a period of three years following contract termination or completion.
 - C. Contractor shall provide CDPH with its employee's certifications within five (5) business days of a request by CDPH for the employee's certifications.
- X. Employee Discipline: Contractor shall impose discipline that it deems appropriate (in its sole discretion) on such employees and other Contractor workforce members under Contractor's direct control who intentionally or negligently violate any provisions of this Exhibit.

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XI. Breach and Security Incident Responsibilities:

- A. Notification to CDPH of Breach or Security Incident: The Contractor shall notify CDPH **immediately by telephone call plus email or fax** upon the discovery of a breach (as defined in this Exhibit), **and within three (3) business days by email** of the discovery of any security incident (as defined in this Exhibit), unless a law enforcement agency determines that the notification will impede a criminal investigation, in which case the notification required by this section shall be made to CDPH immediately after the law enforcement agency determines that such notification will not compromise the investigation. Notification shall be provided to the CDPH Program Contract Manager, the CDPH Privacy Officer and the CDPH Chief Information Security Officer, using the contact information listed in Section XI(F), below. If the breach or security incident is discovered after business hours or on a weekend or holiday and involves CDPH PCI in electronic or computerized form, notification to CDPH shall be provided by calling the CDPH Information Security Office at the telephone numbers listed in Section XI(F), below. For purposes of this Section, breaches and security incidents shall be treated as discovered by Contractor as of the first day on which such breach or security incident is known to the Contractor, or, by exercising reasonable diligence would have been known to the Contractor. Contractor shall be deemed to have knowledge of a breach if such breach is known, or by exercising reasonable diligence would have been known, to any person, other than the person committing the breach, who is a employee or agent of the Contractor.

Contractor shall take:

1. prompt corrective action to mitigate any risks or damages involved with the breach or security incident and to protect the operating environment; and
 2. any action pertaining to a breach required by applicable federal and state laws, including, specifically, California Civil Code section 1798.29.
- B. Investigation of Breach and Security Incidents: The Contractor shall immediately investigate such breach or security incident. As soon as the information is known and subject to the legitimate needs of law enforcement, Contractor shall inform the CDPH Program Contract Manager, the CDPH Privacy Officer, and the CDPH Chief Information Security Officer of:
1. what data elements were involved and the extent of the data disclosure or access involved in the breach, including, specifically, the number of individuals whose personal information was breached; and
 2. a description of the unauthorized persons known or reasonably believed to have improperly used the CDPH PCI and/or a description of the unauthorized persons known or reasonably believed to have improperly accessed or acquired the CDPH PCI, or to whom it is known or reasonably believed to have had the CDPH PCI improperly disclosed to them; and
 3. a description of where the CDPH PCI is believed to have been improperly used or disclosed; and

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4. a description of the probable and proximate causes of the breach or security incident; and
 5. whether Civil Code section 1798.29 or any other federal or state laws requiring individual notifications of breaches have been triggered.
- C. Written Report: The Contractor shall provide a written report of the investigation to the CDPH Program Contract Manager, the CDPH Privacy Officer, and the CDPH Chief Information Security Officer as soon as practicable after the discovery of the breach or security incident. The report shall include, but not be limited to, the information specified above, as well as a complete, detailed corrective action plan, including information on measures that were taken to halt and/or contain the breach or security incident, and measures to be taken to prevent the recurrence or further disclosure of data regarding such breach or security incident.
- D. Notification to Individuals: If notification to individuals whose information was breached is required under state or federal law, and regardless of whether Contractor is considered only a custodian and/or non-owner of the CDPH PCI, Contractor shall, at its sole expense, and at the sole election of CDPH, either:
1. make notification to the individuals affected by the breach (including substitute notification), pursuant to the content and timeliness provisions of such applicable state or federal breach notice laws. Contractor shall inform the CDPH Privacy Officer of the time, manner and content of any such notifications, prior to the transmission of such notifications to the individuals; or
 2. cooperate with and assist CDPH in its notification (including substitute notification) to the individuals affected by the breach.
- E. Submission of Sample Notification to Attorney General: If notification to more than 500 individuals is required pursuant to California Civil Code section 1798.29, and regardless of whether Contractor is considered only a custodian and/or non-owner of the CDPH PCI, Contractor shall, at its sole expense, and at the sole election of CDPH, either:
1. electronically submit a single sample copy of the security breach notification, excluding any personally identifiable information, to the Attorney General pursuant to the format, content and timeliness provisions of Section 1798.29, subdivision (e). Contractor shall inform the CDPH Privacy Officer of the time, manner and content of any such submissions, prior to the transmission of such submissions to the Attorney General; or
 2. cooperate with and assist CDPH in its submission of a sample copy of the notification to the Attorney General.
- F. CDPH Contact Information: To direct communications to the above referenced CDPH staff, the Contractor shall initiate contact as indicated herein. CDPH reserves the right to make changes to the contact information below by verbal or written notice to the Contractor. Said changes shall not require an amendment to this Exhibit or the agreement to which it is incorporated.

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CDPH Program Contract Manager	CDPH Privacy Officer	CDPH Chief Information Security Officer
See the Scope of Work exhibit for Program Contract Manager	Privacy Officer Privacy Office Office of Legal Services California Dept. of Public Health 1415 L Street, 5 th Floor Sacramento, CA 95814 Email: privacy@cdph.ca.gov Telephone: (877) 421-9634	Chief Information Security Officer Information Security Office California Dept. of Public Health P.O. Box 997377 MS6302 Sacramento, CA 95899-7413 Email: cdphiso@cdph.ca.gov Telephone: (855) 500-0016

- XII. Documentation of Disclosures for Requests for Accounting: Contractor shall document and make available to CDPH or (at the direction of CDPH) to an Individual such disclosures of CDPH PCI, and information related to such disclosures, necessary to respond to a proper request by the subject Individual for an accounting of disclosures of personal information as required by Civil Code section 1798.25, or any applicable state or federal law.
- XIII. Requests for CDPH PCI by Third Parties: The Contractor and its employees, agents, or subcontractors shall promptly transmit to the CDPH Program Contract Manager all requests for disclosure of any CDPH PCI requested by third parties to the agreement between Contractor and CDPH (except from an Individual for an accounting of disclosures of the individual's personal information pursuant to applicable state or federal law), unless prohibited from doing so by applicable state or federal law.
- XIV. Audits, Inspection and Enforcement: CDPH, upon mutual agreement of a time during Contractor's normal business hours may inspect the facilities, systems, books and records of Contractor to monitor compliance with this Exhibit. Contractor shall promptly remedy any violation of any provision of this Exhibit and shall certify the same to the CDPH Program Contract Manager in writing.
- XV. Return or Destruction of CDPH PCI on Expiration or Termination: Upon expiration or termination of the agreement between Contractor and CDPH for any reason, Contractor shall securely return or destroy the CDPH PCI. If return or destruction is not feasible, Contractor shall provide a written explanation to the CDPH Program Contract Manager, the CDPH Privacy Officer and the CDPH Chief Information Security Officer, using the contact information listed in Section XI(F), above.
- A. Retention Required by Law: If required by state or federal law, Contractor may retain, after expiration or termination, CDPH PCI for the time specified as necessary to comply with the law.
- B. Obligations Continue Until Return or Destruction: Contractor's obligations under this Exhibit shall continue until Contractor returns or destroys the CDPH PCI or returns the CDPH PCI to CDPH; provided however, that on expiration or termination of the agreement between Contractor and CDPH, Contractor shall not further use or disclose the CDPH PCI except as required by state or federal law.
- C. Notification of Election to Destroy CDPH PCI: If Contractor elects to destroy the CDPH PCI, Contractor shall certify in writing, to the CDPH Program Contract Manager, the CDPH Privacy Officer and the CDPH Chief Information Security Officer, using the contact information listed in

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Section XI(F), above, that the CDPH PCI has been securely destroyed. The notice shall include the date and type of destruction method used.

- XVI. Amendment: The parties acknowledge that federal and state laws regarding information security and privacy rapidly evolves and that amendment of this Exhibit may be required to provide for procedures to ensure compliance with such laws. The parties specifically agree to take such action as is necessary to implement new standards and requirements imposed by regulations and other applicable laws relating to the security or privacy of CDPH PCI. The parties agree to promptly enter into negotiations concerning an amendment to this Exhibit consistent with new standards and requirements imposed by applicable laws and regulations.
- XVII. Assistance in Litigation or Administrative Proceedings: Contractor shall make itself and any subcontractors, workforce employees or agents assisting Contractor in the performance of its obligations under the agreement between Contractor and CDPH, available to CDPH at no cost to CDPH to testify as witnesses, in the event of litigation or administrative proceedings being commenced against CDPH, its director, officers or employees based upon claimed violation of laws relating to security and privacy, which involves inactions or actions by the Contractor, except where Contractor or its subcontractor, workforce employee or agent is a named adverse party.
- XVIII. No Third-Party Beneficiaries: Nothing express or implied in the terms and conditions of this Exhibit is intended to confer, nor shall anything herein confer, upon any person other than CDPH or Contractor and their respective successors or assignees, any rights, remedies, obligations or liabilities whatsoever.
- XIX. Interpretation: The terms and conditions in this Exhibit shall be interpreted as broadly as necessary to implement and comply with regulations and applicable State laws. The parties agree that any ambiguity in the terms and conditions of this Exhibit shall be resolved in favor of a meaning that complies and is consistent with federal and state laws and regulations.
- XX. Survival: If Contractor does not return or destroy the CDPH PCI upon the completion or termination of the Agreement, the respective rights and obligations of Contractor under Sections VI, VII and XI of this Exhibit shall survive the completion or termination of the agreement between Contractor and CDPH.

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Attachment 1
Contractor Data Security Standards

1. General Security Controls

- A. **Confidentiality Statement.** Contractor shall ensure that all persons that will be working with CDPH PCI will sign a confidentiality agreement or agree to confidentiality obligations as part of an employment agreement..
- B. **RESERVED.**
- C. **Workstation/Laptop encryption.** All workstations and laptops that process and/or store CDPH PCI must be encrypted using a FIPS 140-2 certified algorithm, such as Advanced Encryption Standard (AES), with a 128bit key or higher. The encryption solution must be full disk unless approved by the CDPH Information Security Office.
- D. **Server Security.** Servers containing unencrypted CDPH PCI must have sufficient administrative, physical, and technical controls in place to protect that data, based upon a risk assessment/system security review.
- E. **Minimum Necessary.** Only the minimum necessary amount of CDPH PCI required to perform necessary business functions may be copied, downloaded, or exported.
- F. **Removable media devices.** All electronic files that contain CDPH PCI data must be encrypted when stored on any removable media or portable device (i.e. USB thumb drives, floppies, CD/DVD, smart devices tapes etc.). PCI must be encrypted using a FIPS 140-2 certified algorithm, such as Advanced Encryption Standard (AES), with a 128bit key or higher
- G. **Antivirus software.** All workstations, laptops and other systems that process and/or store CDPH PCI must install and actively use a comprehensive anti-virus software solution with automatic updates scheduled at least daily.
- H. **Patch Management.** All workstations, laptops and other systems that process and/or store CDPH PCI must have operating system and application security patches applied, with system reboot if necessary. There must be a documented patch management process which determines installation timeframe based on risk assessment and vendor recommendations. At a maximum, all applicable patches must be installed within 30 days of vendor release.
- I. **User IDs and Password Controls.** All users must be issued a unique user name for accessing CDPH PCI. Username must be promptly disabled, deleted, or the password changed upon the transfer or termination of an employee with knowledge of the password. Passwords are not to be shared. Must be at least eight characters. Must be a non-dictionary word. Must not be stored in readable format on the computer.

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Must be changed if revealed or compromised. Must be composed of characters from at least three of the following four groups from the standard keyboard:

- Upper case letters (A-Z)
- Lower case letters (a-z)
- Arabic numerals (0-9)
- Non-alphanumeric characters (punctuation symbols)

- J. **Data Sanitization.** All CDPH PCI must be sanitized using NIST Special Publication 800-88 standard methods for data sanitization when the CDPH PCI is no longer needed.

2. System Security Controls

- A. **System Timeout.** The system must provide an automatic timeout, requiring reauthentication of the user session after no more than 20 minutes of inactivity.
- B. **Warning Banners.** All systems containing CDPH PCI must display a warning banner each time a user attempts access, stating that data is confidential, systems are logged, and system use is for business purposes only. User must be directed to log off the system if they do not agree with these requirements.
- C. **System Logging.** The system must maintain an automated audit trail which can identify the user or system process which initiates a request for CDPH PCI, or which alters CDPH PCI. The audit trail must be date and time stamped, must log both successful and failed accesses, must be read only, and must be restricted to authorized users. This logging must be included for all user privilege levels including, but not limited to, systems administrators. If CDPH PCI is stored in a database, database logging functionality must be enabled. Audit trail data must be archived for at least 3 years after occurrence.
- D. **Access Controls.** The system must use role based access controls for all user authentications, enforcing the principle of least privilege.
- E. **Transmission encryption.** All data transmissions of CDPH PCI outside the contractor's secure internal network must be encrypted using a FIPS 140-2 certified algorithm, such as Advanced Encryption Standard (AES), with a 128bit key or higher. Encryption can be end to end at the network level, or the data files containing CDPH PCI can be encrypted. This requirement pertains to any type of CDPH PCI in motion such as website access, file transfer, and E-Mail.
- F. **Intrusion Detection.** All systems involved in accessing, holding, transporting, and protecting CDPH PCI that are accessible via the Internet must be protected by a comprehensive intrusion detection and prevention solution.

3. Audit Controls

- A. **System Security Review.** All systems processing and/or storing CDPH PCI must have at least an annual system risk assessment/security review which provides assurance that administrative, physical, and technical controls are functioning effectively and providing adequate levels of protection. Reviews shall include vulnerability scanning tools.

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- B. **Log Reviews.** All systems processing and/or storing CDPH PCI must have a routine procedure in place to review system logs for unauthorized access.
- C. **Change Control.** All systems processing and/or storing CDPH PCI must have a documented change control procedure that ensures separation of duties and protects the confidentiality, integrity and availability of data.

4. Business Continuity / Disaster Recovery Controls

- A. **Disaster Recovery.** Contractor must establish a documented plan to enable continuation of critical business processes and protection of the security of electronic CDPH PCI in the event of an emergency. Emergency means any circumstance or situation that causes normal computer operations to become unavailable for use in performing the work required under this agreement for more than 24 hours.
- B. **Data Backup Plan.** Contractor must have established documented procedures to securely backup CDPH PCI to maintain retrievable exact copies of CDPH PCI. The backups shall be encrypted. The plan must include a regular schedule for making backups, storing backups offsite, an inventory of backup media, and the amount of time to restore CDPH PCI should it be lost. At a minimum, the schedule must be a weekly full backup and monthly offsite storage of CDPH data.

5. Paper Document Controls

- A. **Supervision of Data.** CDPH PCI in paper form shall not be left unattended at any time, unless it is locked in a file cabinet, file room, desk or office. Unattended means that information is not being observed by an employee authorized to access the information. CDPH PCI in paper form shall not be left unattended at any time in vehicles or planes and shall not be checked in baggage on commercial airplanes.
- B. **Escorting Visitors.** Visitors to areas where CDPH PCI is contained shall be escorted and CDPH PHI shall be kept out of sight while visitors are in the area.
- C. **Confidential Destruction.** CDPH PCI must be disposed of through confidential means, using NIST Special Publication 800-88 standard methods for data sanitization when the CDPH PSCI is no longer needed.
- D. **Removal of Data.** CDPH PCI must not be removed from the premises of the Contractor except with express written permission of CDPH.
- E. **Reserved.**
- F. **Mailing.** CDPH PCI shall only be mailed using secure methods. Large volume mailings of CDPH PHI shall be by a secure, bonded courier with signature required on receipt. Disks and other transportable media sent through the mail must be encrypted with a CDPH approved solution, such as a solution using a vendor product specified on the CALIFORNIA STRATEGIC SOURCING INITIATIVE.