

A. 4176 Warbler Road
P.O. Box 294049
Phelan, CA 92329
P. (760) 868-1212
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W. www.pphcsd.org

SPECIAL ENGINEERING COMMITTEE MEETING AGENDA

March 12, 2024 – 4:30 P.M. Phelan Community Center 4128 Warbler Road, Phelan, CA 92371 & Via Conference Call (see below)

ENGINEERING COMMITTEE MEETING - 4:30 P.M.

Call to Order - Pledge of Allegiance

Roll Call

- 1) Approval of Agenda
- 2) Public Comment Under this item, any member of the public wishing to directly address the Board on any item of interest that may or may not be within the subject matter jurisdiction of the Board, but not listed on the agenda, may do so at this time. However, the Board is prohibited by law from taking any action on any item not appearing on the agenda unless the action is otherwise authorized by the Brown Act. Any member of the public wishing to directly address the Board on any item listed on the agenda may do so when the item is being considered by the Board. Speakers are requested to be brief in their remarks. The Chair may limit each speaker to a comment period of five (5) minutes.

3) Approval of Minutes

4) Oeste Recharge Study Project

5) Discussion Regarding Water System

- Pumps and Wells Services Agreement
- 10-Year Tank Rehabilitation & Maintenance Service
- Water Quality
- Service Line Replacement Program Update
- Other Repairs/Replacements/Updates/Maintenance

6) Smithson Springs Update

7) State Regulations Update

8) Review of Current Projects

- Well No. 15
- Well No. 17
- Future Well No. 18
- Tank 6A
- 9) Staff Reports
- 10) Review of Action Items
 - a) Prior Meeting
 - b) Current Meeting
 - Oeste production numbers and return flows (February 2024)



Mission Statement:

The Mission of the Phelan Piñon Hills Community Services District is to efficiently provide authorized services and maximize resources for the benefit of the community.

Authorized Services:

- Water
- Parks & Recreation
- Street
 Lighting
- Solid Waste & Recycling

11) Set Agenda for Next Meeting – April 17, 2024

12) Adjournment

Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, that is sought in order to participate in the above-agendized public meeting should be directed to the District's General Manager at (760) 868-1212 at least 24 hours prior to said meeting.

Agenda materials can be viewed online at www.pphcsd.org

<u>Remote Viewing:</u>

To watch the livestream (view only - nonparticipating), visit our YouTube channel:

PPHCSD YouTube Channel Link

Remote Participation:

To provide public comment, or otherwise participate remotely, select the meeting you wish to attend on the District's website and then click the "Join Remote Meeting" option.

https://www.pphcsd.org/meetings

Please be advised that remote participation and livestreaming options are provided as a courtesy to the public and technical issues could occur, resulting in delays or the inability to participate remotely or livestream. It is recommended that you attend in person to ensure you are able to participate.

Written Comments:

You may also email your public comment to the Board Secretary at <u>ksevy@pphcsd.org</u> by the meeting start time listed on this agenda. Your comment will be added to the record by the Board Secretary.

Please check the District website for updates on this meeting. We encourage you to sign up for our email notifications by emailing <u>ksevy@pphcsd.org</u> or by visiting our website and completing the signup form at <u>www.pphcsd.org</u> under the "Agendas and Minutes" tab.



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SPECIAL ENGINEERING COMMITTEE MEETING MINUTES

February 13, 2024 – 4:30 p.m. Phelan Community Center 4128 Warbler Road, Phelan, CA 92371 & Remotely Via Zoom or Conference Call

Board Members Present:	Mark Roberts, Director (Chair) Rebecca Kujawa, President
Staff Present:	Don Bartz, General Manager George Cardenas, Engineering Manager Kim Sevy, HR & Solid Waste Manager/District Clerk Sean Wright, Water Operations Manager Chris Cummings, Water Operations Assistant Manager Jennifer Oakes, Executive Management Analyst Tony De La Rosa, Engineering Technician

Call to Order Director Roberts called the meeting to order at 4:30 p.m.

Roll Call

All Committee Members were present at Roll Call.

1) Approval of Agenda

Director Kujawa moved to approve the Agenda. Director Roberts seconded the motion. Motion carried unanimously.

2) Public Comment – None

3) Approval of Minutes

Director Roberts moved to approve the Minutes. Director Kujawa seconded the motion. Motion passed unanimously.

4) Review of 10-Year Capital & Repair and Maintenance Plans for the 2024/2025 Budget

The Committee reviewed the revised Capital Plan and the Repair and Maintenance Plan.

- 5) **Oeste Recharge Study Project** Mr. Cardenas provided an update on this item.
- 6) Discussion Regarding Water System
 - Pumps and Wells Services Agreement
 - 10-Year Tank Rehabilitation & Maintenance Service

- Water Quality
- Service Line Replacement Program
- Other Repairs/Replacements/Updates/Maintenance

Mr. Wright reported on this item.

7) Smithson Springs Update

Mr. Wright reported that the storm damaged the road and staff has not been up to the spring.

8) State Regulations Update

Nothing to report.

9) **Review of Current Projects**

- Well No. 15
- Well No. 17
- Future Well No. 18
- Tank 6A

Mr. Wright and Mr. Cardenas reported on this item.

10) Staff Reports

Nothing new to report; a written report is in the agenda packet.

11) **Review of Action Items**

- a) Prior Meeting
 - Oeste production numbers and return flows not available until February 2024
 - Update CIP and bring Repair and Maintenance Plan to next meeting.
- b) Current Meeting Update CIP regarding boosters.

12) Set Agenda for Next Meeting – March 20, 2024

• Remove CIP/Repair & Maintenance Plan

13) Adjournment

With no further business before the Committee, the meeting was adjourned at 5:02 p.m.

Agenda materials can be viewed online at <u>www.pphcsd.org</u>

PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT

AGREEMENT FOR SERVICES

THIS AGREEMENT is made this _____ day of May 2018, by and between the PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT, a Community Services District organized and operating pursuant to California Government Code Section 61000 et seq. (hereinafter referred to as the "DISTRICT"), and General Pump Company INC, a California corporation (hereinafter referred to as "CONTRACTOR").

RECITALS

WHEREAS, the DISTRICT desires to contract with CONTRACTOR to provide services for the Well & Booster Maintenance and Repair Annual Service Agreement (hereinafter referred to as "Project"); and

WHEREAS, CONTRACTOR is willing to contract with the DISTRICT to provide such services; and

WHEREAS, CONTRACTOR holds itself as duly licensed, qualified, and capable of performing said services; and

WHEREAS, this Agreement establishes the terms and conditions for the DISTRICT to retain CONTRACTOR to provide the services described herein for the Project.

COVENANTS

NOW, THEREFORE, in consideration of the faithful performance of the terms and conditions set forth herein, the parties hereto agree as follows:

ARTICLE I ENGAGEMENT OF CONTRACTOR AND AUTHORIZATION TO PROCEED

- 1.1 **ENGAGEMENT:** The DISTRICT hereby engages CONTRACTOR, and CONTRACTOR hereby accepts the engagement, to perform certain services described in Section 2.1 of this Agreement for the term set forth in Section 6.7 of this Agreement.
- 1.2 **AUTHORIZATION TO PROCEED:** Authorization for CONTRACTOR to proceed with all or a portion of the work described in Section 2.1 of this Agreement will be granted in writing by the DISTRICT as soon as both parties sign the Agreement and all applicable insurance

and other security documents required pursuant to Section 6.3 of this Agreement are received and approved by the DISTRICT. CONTRACTOR shall not proceed with said work until so authorized by the DISTRICT and shall commence work immediately upon receipt of the Notice to Proceed.

1.3 **NO EMPLOYEE RELATIONSHIP**: CONTRACTOR shall perform the services provided for herein as an independent contractor, and not as an employee of the DISTRICT. The DISTRICT shall have ultimate control over the work performed for the Project. CONTRACTOR is not to be considered an agent or employee of the DISTRICT for any purpose and shall not be entitled to participate in any pension plans, insurance coverage, bonus, stock, or similar benefits that the DISTRICT provides for its employees. CONTRACTOR shall indemnify the DISTRICT for any tax, retirement contribution, social security, overtime payment, or workers' compensation payment which the DISTRICT may be required to make on behalf of CONTRACTOR or any employee of CONTRACTOR for work performed under this Agreement.

ARTICLE II SERVICES OF CONTRACTOR

- 2.1 **SCOPE OF SERVICES:** The scope of services to be performed by the CONTRACTOR under this Agreement are described in the Scope of Work/Technical Provisions attached hereto as Exhibit "A" and incorporated herein by this reference ("Scope of Work"), and shall, where not specifically addressed, include all related services ordinarily provided by the CONTRACTOR under same or similar circumstances and/or otherwise necessary to satisfy the requirements of Section 3.3 of this Agreement. In case of conflict between the terms of this Agreement and the provisions of the Scope of Work/Technical Provisions, this Agreement shall govern.
- 2.2 **PREVAILING WAGES:** In accordance with the provisions of the California Labor Code, CONTRACTOR shall secure the payment of compensation to employees. To the extent required by the California Labor Code, CONTRACTOR shall pay not less than the prevailing rate of per diem wages as determined by the Director, Department of Industrial Relations, State of California. Copies of such prevailing rate of per diem wages are on file at the DISTRICT's office, which copies will be made available to any interested party upon request. CONTRACTOR shall post a copy of such determination at each job site. If applicable, CONTRACTOR shall forfeit to the DISTRICT the amount of the penalty set forth in Labor Code Section 1777.7(b), or any subsequent amendments thereto, for each calendar day, or portion thereof, for each worker paid less than the specified prevailing rates for such work or craft in which such worker is employed, whether paid by CONTRACTOR or by any subcontractor.
- 2.3 **HOURS AND WORKING CONDITIONS:** The DISTRICT is a public entity in the State of California and is subject to the provisions of the Government Code and the Labor Code

of the State. It is stipulated and agreed that all provisions of law applicable to public contracts are a part of this Agreement to the same extent as though set forth herein and will be complied with by CONTRACTOR. CONTRACTOR shall comply with all applicable provisions of the California Labor Code relating to working hours and the employment of apprentices on public works projects. CONTRACTOR shall, as a penalty to the DISTRICT, forfeit \$25.00 for each worker employed in the execution of this Agreement by CONTRACTOR or by any subcontractor, for each calendar day during which such worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week, unless such worker received compensation for all hours worked in excess of 8 hours at not less than 1½ times the basic rate of pay.

ARTICLE III RESPONSIBILITIES OF THE DISTRICT AND OF CONTRACTOR

- 3.1 **DUTIES OF THE DISTRICT:** The DISTRICT, without cost to CONTRACTOR, will provide all pertinent information necessary for CONTRACTOR's performance of its obligations under this Agreement that is reasonably available to the DISTRICT unless otherwise specified in the Scope of Work, in which case the CONTRACTOR is to acquire such information. The DISTRICT does not guarantee or ensure the accuracy of any reports, information, and/or data so provided. To the extent that any reports, information, and/or other data so provided was supplied to the DISTRICT by persons who are not employees of the DISTRICT, any liability resulting from inaccuracies and/or omissions contained in said information shall be limited to liability on behalf of the party who prepared the information for the DISTRICT.
- 3.2 **REPRESENTATIVE OF DISTRICT:** The DISTRICT will designate Sean Wright as the person to act as the DISTRICT's representative with respect to the work to be performed under this Agreement. Such person will have complete authority to transmit instructions, receive information, and interpret and define the DISTRICT's policies and decisions pertinent to the work. In the event the DISTRICT wishes to make a change in the DISTRICT's representative, the DISTRICT shall notify the CONTRACTOR of the change in writing.
- 3.3 **DUTIES OF CONTRACTOR:** CONTRACTOR shall perform the Project work in such a manner as to fully comply with all applicable professional standards of care, including professional quality, technical accuracy, timely completion, and other services furnished and/or work undertaken by CONTRACTOR pursuant to this Agreement. The CONTRACTOR shall cause all work and deliverables to conform to all applicable federal, state, and local laws and regulations.
- 3.4 **APPROVAL OF WORK:** The DISTRICT'S approval of work or materials furnished hereunder shall not in any way relieve CONTRACTOR of responsibility for the technical adequacy of its work. Neither the DISTRICT's review, approval or acceptance of, nor

payment for any of the services shall be construed to operate as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement. Where approval by the DISTRICT is indicated in this Agreement, it is understood to be conceptual approval only and does not relieve the CONTRACTOR of responsibility for complying with all laws, codes, industry standards, and liability for damages caused by negligent acts, errors, omissions, noncompliance with industry standards, or the willful misconduct of the CONTRACTOR or its subcontractors. CONTRACTOR's obligation to defend, indemnify, and hold harmless the DISTRICT, and its directors, officers, employees and agents as set forth in Section 6.9 of this Agreement also applies to the actions or omissions of the CONTRACTOR or its subcontractors as set forth above in this paragraph.

ARTICLE IV PAYMENTS TO CONTRACTOR

- 4.1 **PAYMENT:** The DISTRICT will pay CONTRACTOR for work performed under this Agreement, which work can be verified by the DISTRICT, on the basis of the following: CONTRACTOR shall exercise its good faith best efforts to facilitate a full and clear definition of the scope of all assigned work so that the amount set forth in Section 4.3 of this Agreement will cover all tasks necessary to complete the work. The amount set forth in Section 4.3 of this Agreement is the maximum compensation to which CONTRACTOR may be entitled for the performance of services to complete the work for the Project, unless the Scope of Work or time to complete the work is changed by the DISTRICT in writing in advance of the work to be performed thereunder. Adjustments in the total payment amount shall only be allowed pursuant to Section 6.4 of this Agreement. In no event shall CONTRACTOR be entitled to compensation greater than the amount set forth in Section 4.3 of this Agreement where changes in the Scope of Work or the time for performance are necessitated by the negligence of CONTRACTOR or any sub-contractor performing work on the Project.
- 4.2 **PAYMENT TO CONTRACTOR:** Payment will be made by the DISTRICT within thirty (30) calendar days after receipt of an invoice from CONTRACTOR, provided that all invoices are complete, and product and services are determined to be of sufficient quality by the DISTRICT. CONTRACTOR shall invoice DISTRICT monthly for services performed under this Agreement. In the event that a payment dispute arises between the parties, CONTRACTOR shall provide to the DISTRICT full and complete access to CONTRACTOR's labor cost records and other direct cost data, and copies thereof if requested by the DISTRICT.
- 4.3 **ESTIMATED CHARGES:** The total estimated charges for all work under this Agreement are the Base Bid Submittal attached Exhibit "B" and such amount is the cost ceiling as described herein. The total estimated charges stated herein constitute the total amount agreed to.

4.4 **COST FOR REWORK:** CONTRACTOR shall, at no cost to the DISTRICT, prepare any necessary rework occasioned by CONTRACTOR's negligent act or omission or otherwise due substantially to CONTRACTOR's fault.

ARTICLE V COMPLETION SCHEDULE

- 5.1 **TASK SCHEDULE:** The work is anticipated to be completed in accordance with the schedule contained in the Scope of Work.
- 5.2 **TIME OF ESSENCE:** CONTRACTOR shall perform all services required by this Agreement in a prompt, timely, and professional manner in accordance with the above schedule. Time is of the essence in this Agreement.

ARTICLE VI GENERAL PROVISIONS

- 6.1 **COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS:** CONTRACTOR shall at all times observe all applicable provisions of Federal, State, and Local laws and regulations including, but not limited to, those related to Equal Opportunity Employment.
- 6.2 **SUBCONTRACTORS AND OUTSIDE CONSULTANTS:** No subcontract shall be awarded by CONTRACTOR if not identified as a sub-contractor in its Proposal unless prior written approval is obtained from the DISTRICT. CONTRACTOR shall be responsible for payment to subcontractors used by them to perform the services under this Agreement. If CONTRACTOR subcontracts any of the work to be performed, CONTRACTOR shall be as fully responsible to the DISTRICT for the performance of the work, including errors and omissions of CONTRACTOR's subcontractors and of the persons employed by the subcontractor, as CONTRACTOR is for the acts and omissions of persons directly employed by the CONTRACTOR. Nothing contained in this Agreement shall create any contractual relationship between any subcontractor and every subcontractor of a subcontractor to the terms of this Agreement that are applicable to CONTRACTOR's work unless specifically noted to the contrary in the subcontract in question and approved in writing by the DISTRICT.
- 6.3 **INSURANCE:** CONTRACTOR shall secure and maintain in full force and effect, until the satisfactory completion and acceptance of the Project by DISTRICT, such insurance as will protect it and the DISTRICT in such a manner and in such amounts as set forth below. The premiums for said insurance coverage shall be paid by the CONTRACTOR. The failure to comply with these insurance requirements may constitute a material breach of this Agreement, at the sole discretion of the DISTRICT.

- (a) <u>Certificates of Insurance</u>: Prior to commencing services under this Agreement, and in any event no later than ten (10) calendar days after execution of this Agreement, CONTRACTOR shall furnish DISTRICT with Certificates of Insurance and endorsements verifying the insurance coverage required by this Agreement is in full force and effect. The DISTRICT reserves the right to require complete and accurate copies of all insurance policies required under this Agreement.
- (b) <u>**Required Provisions:**</u> The insurance policies required by this Agreement shall include the following provisions or have them incorporated by endorsement(s):
 - (1) **Primary Coverage:** The insurance policies provided by CONTRACTOR shall be primary insurance and any self-insured retention and/or insurance carried by or available to the DISTRICT or its employees shall be excess and non-contributory coverage so that any self-insured retention and/or insurance carried by or available to the DISTRICT shall not contribute to any loss or expense under CONTRACTOR's insurance.
 - (2) <u>Additional Insured</u>: The policies of insurance provided by CONTRACTOR, except Workers' Compensation and Professional Liability, shall include as additional insureds: the DISTRICT, its directors, officers, employees, and agents when acting in their capacity as such in conjunction with the performance of this Agreement. Such policies shall contain a "severability of interests" provision, also known as "Cross liability" or "separation of insured".
 - (3) <u>Cancellation</u>: Each certificate of insurance and insurance policy shall provide that the policy may not be non-renewed, canceled (for reasons other than non-payment of premium) or materially changed without first giving thirty (30) days advance written notice to the DISTRICT, or ten (10) days advance written notice in the event of cancellation due to non-payment of premium.
 - (4) <u>Waiver of Subrogation</u>: The insurance policies provided by CONTRACTOR shall contain a waiver of subrogation against DISTRICT, its directors, officers, employees and agents for any claims arising out of the services performed under this Agreement by CONTRACTOR.
 - (5) <u>**Claim Reporting:**</u> CONTRACTOR shall not fail to comply with the claim reporting provisions or cause any breach of a policy condition or warranty of the insurance policies required by this Agreement that would affect the coverage afforded under the policies to the DISTRICT.
 - (6) <u>Deductible/Retention</u>: If the insurance policies provided by CONTRACTOR contain deductibles or self-insured retentions, any such deductible or self-insured retention shall not be applicable with respect to the coverage provided to DISTRICT under such policies. CONTRACTOR shall be solely responsible for any such deductible or self-insured retention and the DISTRICT, in its sole discretion, may require CONTRACTOR to secure the payment of any such deductible or selfinsured retention by a surety bond or an irrevocable and unconditional

letter of credit.

- (7) **CONTRACTOR's Sub-contractors:** CONTRACTOR shall include all subcontractors as additional insureds under the insurance policies required by this Agreement to the same extent as the DISTRICT or shall furnish separate certificates of insurance and policy endorsements for each subcontractor verifying that the insurance for each sub-contractor complies with the same insurance requirements applicable to CONTRACTOR under this Agreement.
- (b) Insurance Company Requirements: CONTRACTOR shall provide insurance coverage through insurers that have at least an "A" Financial Strength Rating and a "VII" Financial Size Category in accordance with the current ratings by the A. M. Best Company, Inc. as published in <u>Best's Key Rating Guide</u> or on said company's web site. In addition, any and all insurers must be admitted and authorized to conduct business in the State of California and be a participant in the California Insurance Guaranty Association, as evidenced by a listing in the appropriate publication of the California Department of Insurance.
- (d) **Policy Requirements:** The insurance required under this Agreement shall meet or exceed the minimum requirements as set forth below:
 - (1) <u>Workers' Compensation</u>: CONTRACTOR shall maintain Workers' Compensation insurance as required by law in the State of California to cover CONTRACTOR's obligations as imposed by federal and state law having jurisdiction over CONTRACTOR's employees and Employers' Liability insurance, including disease coverage, of not less than \$1,000,000.
 - (2) <u>General Liability</u>: CONTRACTOR shall maintain Comprehensive General Liability insurance with a combined single limit of not less than \$1,000,000 per occurrence or claim and \$1,000,000 aggregate. The policy shall include, but not be limited to, coverage for bodily injury, property damage, personal injury, products, completed operations and blanket contractual to cover, but not be limited to, the liability assumed under the indemnification provisions of this Agreement. In the event the Comprehensive General Liability insurance policy is written on a "claims made" basis, coverage shall extend for two years after the satisfactory completion and acceptance of the Project by DISTRICT.
 - (3) <u>Automobile Liability</u>: CONTRACTOR shall maintain Commercial Automobile Liability insurance with a combined single limit for bodily injury and property damage of not less than \$1,000,000 each occurrence for any owned, hired, or non-owned vehicles.
 - (4) <u>Professional Liability</u>: CONTRACTOR shall maintain Professional Liability insurance covering errors and omissions arising out of the services performed by the CONTRACTOR or any person employed by him, with a limit of not less than \$1,000,000 per occurrence or claim and \$1,000,000 aggregate. In the event the insurance policy is written on a "Claims

made" basis, coverage shall extend for two years after the satisfactory completion and acceptance of the Project by DISTRICT.

- (5) **Property Coverage Valuable Papers:** Property coverage on an all-risk, replacement cost form with Valuable Papers insurance sufficient to assure the restoration of any documents, memoranda, reports, plans or other similar data, whether in hard copy or electronic form, relating to the services provided by CONTRACTOR under this Agreement.
- 6.4 **CHANGES IN SCOPE OR TIME:** If the DISTRICT requests a change in the Scope of Work or time of completion by either adding to or deleting from the original scope or time of completion, an equitable adjustment shall be made and this Agreement shall be modified in writing accordingly. CONTRACTOR must assert any claim for adjustment under this clause in writing within thirty (30) calendar days from the date of receipt from CONTRACTOR of the notification of change unless the DISTRICT grants a further period of time before the date of final payment under this Agreement.
- 6.5 **NOTICES:** All notices to either party by the other shall be made in writing and delivered or mailed to such party at their respective addresses as follows, or to other such address as either party may designate, and said notices shall be deemed to have been made when delivered or, if mailed, five (5) days after mailing.

To DISTRICT:	Phelan Piñon Hills Community Services District 4176 Warbler Road
	P.O. Box 294049
	Phelan, CA 92329-4049
	Attn: General Manager

To CONTRACTOR:	General Pump Company
	159 North Acacia
	San Dimas, CA, 91773
	Attn:Tom Nanchy, Sr. Project Manager/Pr.Engineer

6.6 **CONTRACTOR'S ASSIGNED PERSONNEL:** CONTRACTOR designates_

to have immediate responsibility for the performance of the work and for all matters relating to performance under this Agreement. Substitution of any assigned personnel shall require the prior written approval of the DISTRICT. If the DISTRICT determines that a proposed substitution is not acceptable, then, at the request of the DISTRICT, CONTRACTOR shall substitute with a person acceptable to the DISTRICT.

6.7 **TERMINATION:**

(a) If the engagement of CONTRACTOR is not extended by the mutual written consent of the DISTRICT and CONTRACTOR, then this Agreement shall expire on

the latest date set forth in the schedule contained in the Scope of Work for completion of tasks for the Project.

- (b) Notwithstanding the above, the DISTRICT may terminate this Agreement or abandon any portion of the Project by giving ten (10) days written notice thereof to CONTRACTOR. CONTRACTOR may terminate its obligation to provide further services under this Agreement upon thirty (30) calendar days written notice only in the event of substantial failure by the DISTRICT to perform in accordance with the terms of this Agreement through no fault of the CONTRACTOR.
- (c) In the event of termination of this Agreement or abandonment of any portion of the Project, the DISTRICT shall be immediately given title to all original drawings and other documents developed for the Project, and the sole right and remedy of CONTRACTOR shall be to receive payment for all amounts due and not previously paid to CONTRACTOR for services completed or in progress in accordance with the Agreement prior to such date of termination. If termination occurs prior to completion of any task for which payment has not been made, the fee for services performed during such task shall be based on an amount mutually agreed to by the DISTRICT and CONTRACTOR. Such payments available to the CONTRACTOR under this paragraph shall not include costs related to lost profit associated with the expected completion of the work or other such payments relating to the benefit of this Agreement.
- 6.8 **ATTORNEYS' FEES:** In the event that either the DISTRICT or CONTRACTOR brings an action or proceeding for damages for an alleged breach of any provision of this Agreement, to interpret this Agreement or determine the rights of and duties of either party in relation thereto, the prevailing party shall be entitled to recover as part of such action or proceeding all litigation, arbitration, mediation and collection expenses, including witness fees, court costs, and reasonable attorneys' fees. Such fees shall be determined by the Court in such litigation or in a separate action brought for that purpose. Mediation will be attempted if both parties mutually agree before, during, or after any such action or proceeding has begun.

6.9 INDEMNITY:

(a) CONTRACTOR shall defend, indemnify and hold DISTRICT, including its directors, officers, employees and agents, harmless from and against any and all claims, demands, causes of action, suits, debts, obligations, liabilities, losses, damages, costs, expenses, attorney's fees, awards, fines, settlements, judgments or losses of whatever nature, character, and description, with respect to or arising out of the work to be performed under this Agreement, including without limitation, any and all such claims, demands, causes of action, suits, debts, obligations, liabilities, losses, damages, costs, expenses, attorney's fees, awards, fines, settlements, judgments or losses of whatever nature, character, and description, arising by reason of death or bodily injury to one or more persons, including the employees of CONTRACTOR; injury to property of any kind, including loss of use; or economic damages of any kind, caused by, or arising out of, any alleged or actual act or omission, regardless of whether such act or omission is active or

passive, by CONTRACTOR, any of CONTRACTOR's sub-contractors or DISTRICT, including their respective directors, officers, employees, agents and assigns, excepting only such matters arising from the sole negligence or willful misconduct of the DISTRICT.

- (b) CONTRACTOR shall defend, indemnify and hold DISTRICT, including its directors, officers, employees and agents, harmless from and against any and all claims, demands, causes of action, suits, debts, obligations, liabilities, losses, damages, costs, expenses, attorney's fees, awards, fines, settlements, judgments or losses of whatever nature, character, and description, with respect to or arising out of any infringement or alleged infringement of any patent, copyright or trademark and arising out of the use of any equipment or materials furnished under this Agreement by the CONTRACTOR or CONTRACTOR's sub-contractors, including their respective directors, officers, employees, agents and assigns, or out of the processes or actions employed by, or on behalf of, the CONTRACTOR or CONTRACTOR's sub-contractors, including their respective directors, officers, employees, agents and assigns, in connection with the performance of services under this Agreement. CONTRACTOR shall have the right, in order to avoid such claims or actions, to substitute at its expense non-infringing equipment, materials or processes, or to modify at its expense such infringing equipment, materials, and processes so they become non-infringing, provided that such substituted and modified equipment, materials, and processes shall meet all the requirements and be subject to all the provisions of this Agreement.
- (c) CONTRACTOR shall defend, indemnify and hold DISTRICT, including its directors, officers, employees and agents, harmless from and against any and all claims, demands, causes of action, suits, debts, obligations, liabilities, losses, damages, costs, expenses, attorney's fees, awards, fines, settlements, judgments or losses of whatever nature, character, and description, with respect to or arising out of any breach by CONTRACTOR or CONTRACTOR's sub-contractors, including their respective directors, officers, employees, agents and assigns, of the aforesaid obligations and covenants, and any other provision or covenant of this Agreement.
- (d) It is the intent of the parties to this Agreement that the defense, indemnity and hold harmless obligation of CONTRACTOR under this Agreement shall be as broad and inclusive as may be allowed under *California Civil Code* §§ 2778 through 2784.5, or other similar state or federal law.
- 6.10 **SAFETY:** CONTRACTOR shall perform the work in full compliance with applicable State and Federal safety requirements including, but not limited to, Occupational Safety and Health Administration requirements.
 - (a) CONTRACTOR shall take all precautions necessary for the safety of, and prevention of damage to, property on or adjacent to the Project site, and for the safety of, and prevention of injury to, persons, including DISTRICT's employees, CONTRACTOR's employees, and third persons. All work shall be performed

entirely at CONTRACTOR's risk. CONTRACTOR shall comply with the insurance requirements set forth in Section 6.3 of this Agreement.

- (c) CONTRACTOR shall also furnish the DISTRICT with a copy of any injury prevention program established for the CONTRACTOR's employees pursuant to Labor Code Section 6401.7, including any necessary documentation regarding implementation of the program. CONTRACTOR hereby certifies that its employees have been trained in the program, and procedures are in place to train employees whenever new substances, processes, procedures, or equipment are introduced. CONTRACTOR shall demonstrate compliance with Labor Code Section 6401.7 by maintaining a copy of its Injury and Illness Prevention Plan at the Project site and making it available to the DISTRICT.
- 6.11 **EXAMINATION OF RECORDS:** All original drawings, specifications, reports, calculations, and other documents or electronic data developed by CONTRACTOR for the Project shall be furnished to and become the property of the DISTRICT. CONTRACTOR agrees that the DISTRICT will have access to and the right to examine any directly pertinent books, documents, papers, and records of any and all of the transactions relating to this Agreement.

6.12 **OWNERSHIP OF SOFTWARE:**

- (a) Subject to payment of all compensation due under this Agreement and all other terms and conditions herein, CONTRACTOR hereby grants DISTRICT a nonexclusive, transferable, royalty-free license to use the Software furnished to DISTRICT by CONTRACTOR under this agreement. The license granted herein shall authorize DISTRICT to:
 - (1) Install the Software on computer systems owned, leased or otherwise controlled by DISTRICT;
 - (2) Utilize the Software for its internal data-processing purposes; and
 - (3) Copy the Software and distribute as desired to exercise the rights granted herein.
- (b) CONTRACTOR retains its entire right, title and interest in the Software developed under this agreement. DISTRICT acknowledges that CONTRACTOR owns or holds a license to use and sublicense various pre-existing development tools, routines, subroutines and other programs, data and materials that CONTRACTOR may include in the Software developed under this Agreement. This material shall be referred to hereafter as "Background Technology."
- (c) DISTRICT agrees that CONTRACTOR shall retain any and all rights CONTRACTOR may have in the Background Technology. CONTRACTOR grants DISTRICT an unrestricted, nonexclusive, perpetual, fully paid-up worldwide license to use the Background Technology in the Software developed and delivered to DISTRICT under this Agreement, and all updates and revisions thereto. However, DISTRICT shall make no other commercial use of the Background Technology without CONTRACTOR's written consent.

- 6.13 **INTEGRATION AND AMENDMENT**: This Agreement contains the entire understanding between the DISTRICT and CONTRACTOR as to those matters contained herein. No other representations, covenants, undertakings or other prior or contemporaneous agreements, oral or written, respecting those matters, which are not specifically incorporated herein, may be deemed in any way to exist or to bind any of the parties hereto. Each party acknowledges that it has not executed this Agreement in reliance on any promise, representation or warranty not set forth herein. This Agreement may not be amended except by a writing signed by all parties hereto.
- 6.14 **ASSIGNMENT:** Neither party shall sign or transfer its interest in this Agreement without written consent of the other party. All terms, conditions, and provisions of this Agreement shall inure to and shall bind each of the parties hereto, and each of their respective heirs, executors, administrators, successors, and assigns.
- 6.15 **GOVERNING LAW:** This Agreement shall be construed as if it was jointly prepared by both parties hereto, and any uncertainty or ambiguity contained herein shall not be interpreted against the party drafting same. This Agreement shall be enforced and governed by the laws of the State of California. If any action is brought to interpret or enforce any term of this Agreement, the action shall be brought in a state court situated in the County of San Bernardino, State of California, or in a federal court with in rem jurisdiction over the Project.
- 6.16 **HEADINGS:** Article and Section headings in this Agreement are for convenience only and are not intended to be used in interpreting or construing the terms, covenants, and conditions of this Agreement.
- 6.17 **PARTIAL INVALIDITY:** If any term, covenant, condition, or provision of this Agreement is found by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions hereof shall remain in full force and effect, and shall in no way be affected, impaired, or invalidated thereby.
- 6.18 **EFFECT OF DISTRICT'S WAIVER:** Any failure by the DISTRICT to enforce any provision of this Agreement, or any waiver thereof by the DISTRICT, shall not constitute a waiver of its right to enforce subsequent violations of the same or any other terms or conditions herein.
- 6.19 **AUTHORITY:** The individuals executing this Agreement represent and warrant that they have the legal capacity and authority to sign this Agreement on behalf of and to so bind their respective legal entities.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first written above.

CONTRACTOR

DISTRICT

Ву: _____

(Print Name and Title)

By: _____ Donald J. Bartz, General Manager Phelan Piñon Hills **Community Services District**

EXHIBIT A

SCOPE OF WORK

EXHIBIT B

BASE BID SUBMITTAL

From: Michael Garcia <<u>MGarcia@genpump.com</u>>
Sent: Friday, December 8, 2023 3:49 PM
To: Sean Wright <<u>swright@pphcsd.org</u>>
Cc: Chris Cummings <<u>Ccummings@pphcsd.org</u>>; Peter Brooks <<u>pbrooks@genpump.com</u>>
Subject: Contract Rate Increase

Hey Sean,

Following up on our discussion below. GPC is requesting a ~9.5% increase to our current contractual rates. Attached are the proposed rates for your review. Please note the rates have been rounded up to the nearest dollar. We want to make this transition as simple as possible for all involved. Let me know if you have any questions or comments.

We appreciate the District's continued willingness to offer contract extensions to GPC. It is our hope that you and your board find this acceptable, and we can continue our productive and successful working relationship.

Have a great weekend.

Michael Garcia VP, Project Management GENERAL PUMP COMPANY, INC. O: 909-599-9606 ext 140 M: 909-721-5534 E: mgarcia@genpump.com

<u>Exhibit A</u>

Scope of Work

PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT WELL AND BOOSTER MAINTENANCE AND REPAIR ANNUAL SERVICE AGREEMENT

SECTION1 SCOPE OF WORK

Rehabilitation, repair, and maintenance of the District's Production Wells, booster pumps, and related equipment. Including the removal, inspection, repair and rehabilitation of the pump, pump column, tube, shaft, motor, and the rehabilitation of the well casing/screen and related equipment.

Provide emergency services work at various locations see **Exhibit "B"**, and procurement of materials and equipment when inspection so recommends. The Contractor will enter into an agreement with the Phelan Pinon Hills Community Services (District), to provide maintenance and emergency services for an initial period of one (1) year, with an option for the District to renew the contract up to three consecutive terms of one (1) year, based on performance. The District may select a second contractor for emergency services.

A. Location & Description

- Various locations throughout the Phelan & Pinon Hills area see Exhibit "B".
- Production Wells Exhibit "C", Booster Station Information Tables see Exhibit "D".
- Locations are sensitive for Homeland Security protection. Please contact Sean Wright, for Exhibits "B", "C", and "D".

B. BONDS, INSURANCE AND MISCELLANEOUS

 Work under this item shall include, but not be limited to, the incidental work items and costs necessary for obtaining all necessary bonds and Certificates of Insurance; miscellaneous management and overhead costs; cleanup as necessary; and other miscellaneous work or costs not classifiable under the other bid item numbers.

C. EMERGENCY SERVICES

- This is an indefinite delivery item and the District makes no guarantee that actual work will be needed. Work under this item shall include, but not be limited to, the incidental work items and costs necessary for responding to the District's emergency callout due to failure of a well or booster caused by:
- Loss of suction.
- Loss of pressure/volume.

- Excessive vibration.
- This lump sum work includes dispatch of labor to the site within twenty-four (24) hours of notification from the District. Notification will be first by telephone followed up by an authorization via E-mail.

D. EMERGENCY SERVICES - Repair

- All work to be done in accordance with Technical Provisions of this specification.
- Lump Sum.
- This is an indefinite delivery item and the District makes no guarantee that actual work

will be needed. Work under this item shall include, but not be limited to, the incidental work items and costs necessary for responding to the District's emergency callout due to failure of a well or booster caused by:

- Loss of suction.
- Loss of pressure/volume.
- Excessive vibration.

This lump sum work includes mobilization of labor and equipment resources to the site within twenty-four hours (24) of notification from the District. Notification will be first by telephone followed up by an E-mail authorization. Subsequent to mobilization on site, Contractor will remove building (if applicable), disconnect piping and electrical connections, pull pump column and pump and transport electric motor to location approved by the District, set up and perform a down-hole video with side scan capabilities, disassemble pump column and pipe, transport to shop, disassemble at each joint and inspect for wear and other conditions contributing to well or booster failure.

Following disassembly and inspection, Contractor will prepare and submit to the District a written report of findings, recommendations and develop a detailed cost estimate of recommended repairs and/or rehabilitation using the hourly rates submitted and agreed to by the District. The District will issue a written authorization to proceed with the agreed upon repairs upon approval of the General Manager or Water Operations Manager.

Note:

All work must be done in accordance with the Technical Provisions of this specification.

Wells and boosters can easily be accessed and will be coordinated with the Project Manager.

The work hereunder must be done in strict conformity with the agreement for services and the applicable project task schedule developed by the district.

SECTION 2 TECHNICAL PROVISIONS

A. GENERAL

• These Technical Provisions are the specifications to be followed by the Contractor in the performance of this Contract.

B. MOBILIZATION, DEMOBILIZATION, AND SITE ACCESS

- Mobilization and demobilization shall include the transportation of personnel, equipment, and operating supplies to and from the well site; establishment of portable sanitary facilities; obtaining an adequate source of fresh water from the District; and other preparatory work at the well site and mobilization for work required by the Contractor. The Contractor shall provide a crane adequate for pump extraction and installation; all tools, accessories, power, fuel, materials, supplies, lighting, water, and other equipment; and experienced personnel necessary to conduct efficient rehabilitation operations at the well site. The crane shall be in good condition and of such capacity to lift the entire pump bowl and column assembly. The District will supply temporary water service for rehabilitation purposes at the well site. The Contractor shall also provide portable sanitary facilities for use by all personnel connected with this well rehabilitation project, unless currently available on-site. The Contractor shall keep the well site free from accumulations of waste materials, rubbish, and other debris resulting from the work. At completion of the work, the Contractor shall remove all waste materials, rubbish, and debris from and about the well site as well as all tools, construction equipment, fuel tanks, machinery, temporary structures, and surplus materials. The Contractor shall leave the well site clean and ready for use by the District. The Contractor shall restore all temporary work areas at the well site to their original condition. The Contractor shall prevent damage to the well site and to the adjacent land, drainage ways, and streets that might result from pumping water during rehabilitation, development, or testing, or due to interruption or diversion of storm or wastewater during execution of the work.
- The Contractor shall properly dispose of all waste and nuisance water. Bailed sediment and sand may be spread on site, providing that there's adequate space. Free pump scale, broken pump pieces, etc., are to be removed from the well site and properly disposed of by the Contractor. The Contractor is responsible for any damages to properties adjacent to the well site caused by rehabilitation and well testing activities associated with the work described herein.

C. DISASSEMBLY AND REMOVAL OF WELL HOUSING AND EQUIPMENT

• The Contractor shall furnish and operate the necessary crane equipment capable of removal of roof and wall sections at the pump house, if applicable. At the conclusion of the rehabilitation, the roof and wall sections shall be replaced in the

condition and location prior to their removal. Prior to execution, the Contractor shall remove any temporary or permanent equipment from the well. This would include, but not be limited to pumps, motors, oilers, stilling pipes, and water level measuring devices.

- The Contractor shall furnish and operate the necessary equipment capable of lifting the motor for removal from the base. The motor shall be unwired, disconnected from the J- box, and the adjustable nut, coupling, keyway and bolts removed.
- The Contractor shall furnish all labor, equipment, materials, and services for the performance of all work to provide removal, disassembly, transportation, and storage of the well pump and motor. The Contractor shall transport and store the well pump, motor and ancillary equipment to the Contractor's service yard and store said equipment in such a manner that it is protected from contamination and damage. The District may require that the motor be transported to and from a local motor repair shop. At the Contractor's service yard, the Contractor shall disassemble the pump and all components and ready these for inspection by the Contractor's Project Manager and District Staff.
- Upon conclusion of the disassembly of the pump and related components, the Contractor shall prepare a detailed written summary report, which will include, but not be limited to, the bowl assembly make, model, serial number (if available), size, number of stages, and pump setting depth, and the column, tube, condition, and shaft sizes. The Contractor shall not discard or service the pump, motor, or ancillary equipment without prior authorization of the District Staff.

D. REMOVE FLOATING MATERIAL FROM WELL

• The Contractor shall furnish all labor, equipment, materials, and services for the performance of all work to provide the removal of any oil or other floating material from the well. The Contractor shall remove the material from the water surface of the well and store in pre-approved 55-gallon storage drums. The Contractor shall be responsible for disposal of bailed oil. The Contractor shall be responsible for transport and disposal of all other materials removed from the well-off site at an approved waste disposal facility.

E. VIDEO SURVEY

• The Contractor shall furnish all labor, material and equipment required to produce clear viewing conditions in the well. The contractor will allow water to flow into the well, through a garden hose or other District approved method, in advance of the video survey to produce clear viewing conditions.

- The Contractor shall furnish all labor, equipment, materials, and services for the • performance of all work to provide the initial video camera survey of the well. The camera used for the survey shall be equipped with centralizers and shall be capable of switching from down-hole to side-scan without the use of mirrors. In addition, the equipment used shall produce color video with automatic depth indication and adequate light source for the best resolution possible. The camera survey shall be performed in the presence of the District Staff. The Contractor shall be required to provide whatever assistance is necessary to accomplish the survey. The video camera shall be tested aboveground before it is inserted into the well. Testing will address down-hole and side-scan optics and depth indicator. The Contractor shall perform the video camera survey throughout the full depth of the well. During the survey, the Contractor may be required to stop at various intervals and record a 360-degree rotation or portions thereof. Intervals to be inspected shall be determined by the District representative during the video logging run.
- The Contractor shall provide the District representative with one (1) original of the cd(s) at the conclusion of the test and one (1) digital copy on a DVD disc within fourteen (14) calendar days of completing the survey. These tapes shall be compatible with the high-resolution format and Windows Media Player. The tapes shall become the property of the District at the time the survey is completed. At the conclusion of the video survey, the Contractor shall prepare a detailed written summary report of the findings, observations, analysis and conclusions derived from the video survey and present the written summary to District staff. Said report shall include the well depth, static water level, type of screen and screen intervals, casing size, and a detailed list of recommendations and cost estimate using the schedule of hourly labor and equipment rates and parts submitted with the bid.

F. WIRE-BRUSH AND BAIL SEDIMENT

- Following review of the initial video survey log, if it is necessary the contractor shall wire/nylon brush the well. The Contractor shall use an appropriate, snug-fitting, stiff wire brush (nylon for wire-wrapped screen casing and steel for louvered casing) to remove any loose material in the casing. Sediment fill shall be removed from the bottom of the well to the maximum possible extent using a bailer or scow or equivalent retrieval device. The Contractor shall brush the entire length of the casing. After sufficient brushing, the well will be allowed to sit for a 24 to 48-hour time period.
- Following wire/nylon brushing and bailing of the casing, clear water preparations shall be undertaken again, and a second video survey of the well shall be performed. Bailed material may be spread on site, space permitting. The District Staff may deem it necessary to dispose of bailed material off site, in which case the Contractor will be responsible for disposing of the bailed material at an

appropriate and approved landfill. If deemed feasible, the water will be allowed to evaporate under ambient conditions. The sediment, after separation from the water, shall either be spread on site or removed from the well site for disposal by the Contractor.

G. COLLECT SAMPLES: ENCRUSTING MATERIAL AND WELLWATER

• The Contractor shall furnish all labor, equipment, materials, and services for the performance of all work to provide the sampling of encrusting material and water in the well (static or discreet sampling intervals). Samples of the encrustation shall be collected using a method pre-approved by the District Staff. Water samples shall be collected using a method pre-approved by the District Staff. The video survey will identify sections of the well screen or casing for sampling. The pH of the water will be determined in the field using a pH meter furnished by District staff.

H. FLOWMETER LOGGING - SPINNER SURVEY

- The flow meter logging shall be performed by a firm specializing in geophysical logging and approved by the District Staff. The Contractor shall be required to provide whatever assistance may be required to accomplish survey. The flow meter logging tool shall be of the impeller type and capable of measurement accuracy of 1/8-foot per second. The flow meter used for the logging shall be equipped with centralizers unless approved otherwise by the District Staff. Proof of last equipment calibration shall be presented to the District Staff before the logging is performed. The calibration date shall not be greater than fourteen calendar days prior to date of surveying.
- The Contractor shall provide the District representative with three (3) flow meter ٠ logs at the conclusion of the logging, and three (3) additional copies and one (1) CD within 14 calendar days of completing the Work. The logs shall become the property of the District at the time the logging is completed. The logging shall be run in the presence of the District Staff and under dynamic (pump operating) conditions. Three runs shall be conducted in the well. Each of the three flow-meter runs shall be performed individually on separate logs from the bottom of the well upwards. On the final logs, the three logging runs shall be merged on one log sheet. Each run shall be conducted at a constant rate of ascent. The anticipated rates are 30, 60, and 90 feet per minute. The actual rate of each run may change from the recommended rate as per direction of the District Staff. The log and heading shall comply with API RP-38 standards for format and log scales. The logging shall be recorded both digitally and on analog source during the logging. The digital information shall be stored in digital format on a CD and shall record one data point for every foot logged.

I. SUMMARY REPORT

 District Staff and the Contractor's Project Manager will meet and discuss the work to be done and a report which will include, but not be limited to, the condition of major components, recommended repairs and replacement, recommended chemical rehabilitation tasks, and estimate of costs using the labor, equipment and additional services rates submitted with the bid to perform the recommendations. The Contractor will then memorialize the video summary and the discussions with the District regarding the work recommendations in the form of a written report summarizing the condition, recommendations and costs for rehabilitation work. The summary shall be submitted to the District representative.

J. DOWNHOLE REHABILITATION AND EQUIPMENT REPAIRS

Upon receipt of the Contractor's report, the District will review the Contractor's written recommendations and cost estimate. Within five (5) working days, the District will set up a meeting with Contractor to: a) review the recommendations and cost estimate; and b) negotiate a change in contract price for the addition of repairs/replacement of the well equipment. The District will issue a written authorization for the repair, replacement, rehabilitation and parts procurement work upon approval from the General Manager.

K. WELL REHABILITATION

- Upon District's authorization to proceed with rehabilitation and repair, chemical treatment of the well may proceed. The chemical treatment to be performed and the method(s) of emplacement shall be determined by the Contractor. The Contractor shall perform rehabilitation operations between the hours of 7:00 AM and 4:00 PM, Monday through Friday, except for the constant-rate pumping test, which will last for 24 to 72 continuous hours at the well or as directed by District staff. The chemicals used in the treatment process will be those proposed by the Contractor. The chemical treatment plan proposed by the Contractor must be submitted to the District. This plan will include the following:
 - The chemicals to be used in the treatment process.
 - The amount(s) of the chemical to be used (the Contractor is to show their calculations in the plan).
 - The equipment to be used in applying the chemicals.
 - The method of application of the chemicals.
 - The amount of residence time of the chemical in the well.
 - The method(s) for removing and inhibiting or neutralizing the chemical used.
 - The chemical treatment method proposed by the Contractor will be reviewed by the District.
- The Contractor shall furnish all labor, equipment, materials and services to chlorinate/ chemigate the well. This chlorination shall be performed following well

rehabilitation. A solution of 500 ppm residual chlorine shall be prepared. Prior to mixing the chlorine solution, the water must be prepared by buffering the water to a pH of 4.5. The buffer shall consist of NW-310 or equivalent.

- The Contractor shall use a polyethylene tank to mix the NW-310, or similar, and chlorine solution with the water. The mixed solution shall then be applied (injected) down-hole through a chemical feed line and mixed into the well by mechanical development. This process is to be repeated until all perforated sections of casing have been treated. After all perforated sections have been treated the water column in the well shall be thoroughly agitated. Following agitation, the mixture shall be allowed to set for a minimum period of 24 hours following chlorination. The method of chlorination must be performed as specified to achieve adequate chlorination of the well. Following the 24-hour time period the Contractor shall transport the water in the well and discharge well fluids to above-ground tanks for treatment.
- The Contractor shall provide a chemical to neutralize the chlorine in above-ground tanks prior to discharge. The Contractor shall keep written records of each task completed and its duration, number and classification of personnel and equipment on-site. The Contractor shall submit daily time sheets summarizing the written records kept as specified.

L. TREATMENT/DISCHARGE OF FLUIDS

- All waters discharge shall meet N.P.D.E.S. requirements.
- Disposal of solids and sludge's: All solids / sludge's generated during the well rehabilitation process shall be contained onsite in appropriate containers. The solids shall be disposed of at a pre-approved site and proof of proper disposal shall be submitted.

M. WELL DEVELOPMENT

- The Contractor shall furnish all labor, equipment, materials, and services for the
 performance of all work to provide, install, and operate a development/test pump
 and associated appurtenances for well development by pumping, down-hole
 video, and flow meter logging of the well. The development/test pump shall be
 used to develop the well following chemical treatment and conduct dynamic
 (pump operating) down-hole video, flow meter logging, and testing of the well as
 determined by the District Staff.
- The annular space between well casing and column pipe of the development/test pump shall be capable of allowing tools of up to 3-inches in diameter to enter the well and pass alongside the pump and motor. The Contractor shall submit to the District Staff a pump performance curve and details of the discharge-piping

configuration for approval before the pump is installed. The pump and column shall be disinfected upon installation. The District Staff shall determine pump depth setting and the operational parameters.

N. STEP DRAWDOWN TESTING

- The Contractor shall furnish all labor, equipment, materials, and services for the performance of all work to provide, install, and operate a temporary test pump and associated appurtenances necessary for performing a step discharge test. The pump shall have a variable speed drive and be capable of as many GPM as necessary for the test, water quality conditions will be determined by District staff and appropriate monitoring of water quality will be performed by the Contractor as deemed necessary by District staff. If the pump motor is not capable of maintaining a steady, consistent speed, or if the pump or motor fails to operate for any period longer than three (3) minutes during the step draw down test, the test shall be repeated on the following day and the failed test shall be at the Contractor's expense.
- The annular space between well casing and column pipe of the development/test pump shall be capable of allowing tools of up to 3-inches in diameter to enter the well and pass alongside the pump and motor. The Contractor shall submit to the District Staff a pump performance curve and details of the discharge-piping configuration for approval before the pump is installed. The pump and column shall be disinfected upon installation. The District Staff shall determine pump depth setting and the operational parameters.

O. CONSTANT-RATE DISCHARGE TESTING

- The Contractor shall furnish all labor, equipment, materials, and services for the performance of all work to provide, install, and operate a temporary test pump and associated appurtenances necessary for performing a constant-rate discharge test. The pump shall have a variable speed drive and be capable of as many GPM as necessary for the test, water quality conditions will be determined by District staff and appropriate monitoring of water quality will be performed by the Contractor as deemed necessary by District staff. If the pump motor is not capable of maintaining a steady, consistent speed, or if the pump or motor fails to operate for any period longer than three (3) minutes during the step draw down test, the test shall be repeated on the following day and the failed test shall be at the Contractor's expense.
- The annular space between well casing and column pipe of the development/test pump shall be capable of allowing tools of up to 3-inches in diameter to enter the well and pass alongside the pump and motor. The Contractor shall submit to the District Staff a pump performance curve and details of the discharge-piping configuration for approval before the pump is installed. The pump and column

shall be disinfected upon installation. The District Staff shall determine pump depth setting and the operational parameters.

P. REINSTALLATION OF EQUIPMENT AND HOUSING

• Following rehabilitation, development and testing of the well satisfactory to the District, the Contractor shall begin reassembly and reinstallation of pump equipment.

Q. CLEANUP AND DEMOBILIZATION

 Upon acceptance of the work by the District, the Contractor shall remove all equipment and surplus material from the job site. All debris including, but not limited to, metal scrap, food wrappers, rags, cans, bottles, paper, cardboard, sacks, and lumber shall be removed from the jobsite and taken to a licensed dumpsite for disposal by the Contractor. The Contractor shall call for a joint inspection of the site by a District staff member. Upon acceptance, the site responsibility will be transferred back to the District.

BASE BID SCHEDULE FOR

WELL & BOOSTER MAINTENANCE	AND	REPAIR	ANNUAL	SERVICE	AGREEMENT

ltem #	DESCRIPTION	QUANTITY & UNIT	UNIT PRICE	AMOUNT
1	Costs related to insurance, and other miscellaneous Items related to contract start up	LS	\$ 500.00	\$ 500.00
**2	Price for an emergency call out: pull, reassemble and reinstall repaired and or new pump, motor, and related equipment excluding cost of motor and pump repairs. Assuming a 10" Vertical turbine, 250 HP Motor, and pump setting at 800 FT.	EA	1	24,440.00
3	Video Survey with side scan (provided in digital format)	EA	1	1,200.00
4	Spinner Log- continuous and stop count	EA	1	2,500.00
5	Discreet Sampling- per round trip of sampling tool 2"	EA	1	500.00
6				
7				
8				
9				
10				
11				
12	15			
13				

TOTAL BID SCHEDULE (Sum of Bid Items 1 through 13):

Twenty-nine Thousand One Hundred Forty and no/100----- Dollars \$ 29,140.00

(Words)

(Figures)

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.

** Item #2 - Assumes Rig Access

PAGE 4-6

EQUIPMENT AND MATERIAL	LEASED / OWNED OR RENTAL	UNIT	RATE \$
Crane 40-50 TON	L / O / R	Hourly	\$ 120.00
Pump Pulling Rig- 30 TON Capacity	L / 0 / R	Hourly	\$ 135.00
Cable Tool Rig- 5 TON Capacity	L / 🛈 / R	Hourly	\$ 10.00
Rotary Crane – 5 TON And Smaller	L / 0 / R	Hourly	\$ 20.00
Rotary Crane- 8 to 10 TON	L / O / R	Hourly	\$ 30.00
Rotary Crane- 15 to 30 TON	L / O / R	Hourly	\$ 135.00
Air Compressor, 600 CFM Minimum	L / O / R	Hourly	\$ 50.00
Welding Truck	L / O / R	Hourly	\$ 30.00
Service Truck- 1 TON or Smaller	L / 0 / R	Hourly	\$ 20.00
OTHER (Please Specify) Flatbed	L / O / R	Hourly	\$ 20.00
TOTAL Based on 100 Hours			\$ 570.00

BID ITEM EQUIPMENT AND MATERIAL

TOTAL BID SCHEDULE (Sum of Bid Items Equipment and Material):

Fifty-seven Thousand and no/100 ----- Dollars \$ 57,000.00

(Words)

(Figures)

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.

BID ITEM HOURLY RATE- LABOR (TO BE USED FOR NEGOTIATING COSTS)

LABOR	REGULAR HOURLY RATE	NOTES
PUMP MECHANIC (FIELD)	\$ 90.00	
HELPER (FIELD)	\$ 30.00	
PUMP MECHANIC (SHOP)	\$ 95.00	
WELDER (FIELD)	\$ 95.00	2 Certified Welders (1 @ 30+ Yrs)
WELDER (SHOP)	\$ 70.00	
CRANE OPERATOR	\$ 90.0 0	9 Certified Crane Operators
CIVIL ENGINEER	\$ No Charge	1 @ 30+ Yrs Experience
HYDROGEOLOGIST	\$ No Charge	Registered PG-12 Yrs. Experience
ELECTRICIAN (FIELD)	\$ 120.00	2 @ 30+ Yrs Experience
ELECTRICIAN (SHOP)	\$ 70.00	2 @ 30+ Yrs Experience
TOTAL BASED ON 100 HOURS	\$ 660.00	

TOTAL BID SCHEDULE (Sum of Bid Items Hourly Rate-Labor):

Sixty-six Thousand and no/100 ------Dollars \$ 66,000.00 (Words)

(Figures)

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.

BID ITEM HOURLY RATE- EMERGENCY LABOR (TO BE USED FOR NEGOTIATING COSTS)

LABOR	REGULAR HOURLY RATE	NOTES
PUMP MECHANIC (FIELD)	\$ 130.00	
HELPER (FIELD)	\$ 40.00	
PUMP MECHANIC (SHOP)	\$ 135.00	
WELDER (FIELD)	\$ 135.00	
WELDER (SHOP)	\$ 90.00	
CRANE OPERATOR	\$ 130.00	
CIVIL ENGINEER	\$ No Charge	
HYDROGEOLOGIST	\$ No Charge	
ELECTRICIAN (FIELD)	\$ 165.00	
ELECTRICIAN (SHOP)	\$ 90.00	
TOTAL BASED ON 100 HOURS	\$ 915.00	

TOTAL BID SCHEDULE (Sum of Bid Items Hourly Rate- Emergency Labor):

Ninety-one Thousand Five Hundred and no/100 ------ Dollars \$ 91,500
(Words)

(Figures)

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.

BID FORMS - WELL & BOOSTER MAINTENANCE AND REPAIR AGREEMENT PAGE 4-9

BASE BID SCHEDULE FOR WELL AND BOOSTER MAINTENANCE AND REPAIR ANNUAL SERVICE AGREEMENT

The Phelan Pinon Hills Community Services District reserves the right to reject any and all proposals, to waive any irregularities, or to award the contract to other than the lowest bidder.

Bidder's Authorized Representative

Signature (

Name (Print) Tom Nanchy

Title (Print) Sr. Proj. Mgr./Proj. Engr.

BASE BID SCHEDULE

FOR

WELL & BOOSTER MAINTENANCE AND REPAIR ANNUAL SERVICE AGREEMENT

ltem #	DESCRIPTION	QUANTITY & UNIT	UNIT PRICE	AMOUNT
1	Costs related to insurance, and other miscellaneous Items related to contract start up	LS	\$ 590.00	\$ 590.00
2	Price for an emergency call out: pull, reassemble and reinstall repaired and or new pump, motor, and related equipment excluding cost of motor and pump repairs. Assuming a 10" Vertical turbine, 250 HP Motor, and pump setting at 800 FT.	EA	1	\$ 28,797.00
3	Video Survey with side scan (provided in digital format)	EA	1	\$ 1,415.00
4	Spinner Log- continuous and stop count	EA	1	\$ 2,946.00
5	Discreet Sampling- per round trip of sampling tool 2"	EA	1	\$ 590.00
6				
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11				
12				
13				

TOTAL BID SCHEDULE (Sum of Bid Items 1 through 13):

Thirty Four Thousand Three Hundred Thirty EightDollars \$ 34,338.00

(Words)

(Figures)

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.

EQUIPMENT AND MATERIAL	LEASED / OWNED OR RENTAL	UNIT	RATE \$
Crane 40-50 TON	L / O / R	Hourly	\$ 143.00
Pump Pulling Rig- 30 TON Capacity	L / O / R	Hourly	\$ 160.00
Cable Tool Rig- 5 TON Capacity	L / O / R	Hourly	\$ 13.00
Rotary Crane – 5 TON And Smaller	L / O / R	Hourly	\$ 25.00
Rotary Crane- 8 to 10 TON	L / O / R	Hourly	\$ 37.00
Rotary Crane- 15 to 30 TON	L / O / R	Hourly	\$ 160.00
Air Compressor, 600 CFM Minimum	L / O / R	Hourly	\$ 60.00
Welding Truck	L / O / R	Hourly	\$ 37.00
Service Truck- 1 TON or Smaller	L / O / R	Hourly	\$ 25.00
OTHER (Please Specify)	L / O / R	Hourly	\$ 25.00
TOTAL Based on 100 Hours			\$ 685.00

BID ITEM EQUIPMENT AND MATERIAL

TOTAL BID SCHEDULE (Sum of Bid Items Equipment and Material):

Sixty Eight Thousand Five Hundred

(Words)

(Figures)

Dollars \$ 68,500.00

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.

BID ITEM HOURLY RATE- LABOR

LABOR	REGULAR HOURLY RATE	NOTES
PUMP MECHANIC (FIELD)	\$ 107.00	
HELPER (FIELD)	\$ 37.00	
PUMP MECHANIC (SHOP)	\$ 113.00	
WELDER (FIELD)	\$ 113.00	
WELDER (SHOP)	\$ 84.00	
CRANE OPERATOR	\$ 107.00	
CIVIL ENGINEER	\$ No Charge	
HYDROGEOLOGIST	\$ No Charge	
ELECTRICIAN (FIELD)	\$ 143.00	
ELECTRICIAN (SHOP)	\$ 84.00	
TOTAL BASED ON 100 HOURS	\$ 788.00	

(TO BE USED FOR NEGOTIATING COSTS)

TOTAL BID SCHEDULE (Sum of Bid Items Hourly Rate- Labor):

Seventy Eight Thousand Eight Hundred	Dollars \$ <u>78,800.00</u>
(Words)	

(Figures)

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.

LABOR	REGULAR HOURLY RATE	NOTES
PUMP MECHANIC (FIELD)	\$ 154.00	
HELPER (FIELD)	\$ 49.00	
PUMP MECHANIC (SHOP)	\$ 160.00	
WELDER (FIELD)	\$ 160.00	
WELDER (SHOP)	\$ 107.00	
CRANE OPERATOR	\$ 154.00	
CIVIL ENGINEER	\$ No Charge	
HYDROGEOLOGIST	\$ No Charge	
ELECTRICIAN (FIELD)	\$ 195.00	
ELECTRICIAN (SHOP)	\$ 107.00	
TOTAL BASED ON 100 HOURS	\$ 1,086.00	

BID ITEM HOURLY RATE- EMERGENCY LABOR

(TO BE USED FOR NEGOTIATING COSTS)

TOTAL BID SCHEDULE (Sum of Bid Items Hourly Rate- Emergency Labor):

One Hundred and Eight Thousand Six Hundred Dollars \$ 108,600.00 (Words)

(Figures)

Bidder hereby acknowledges that all bid prices include any amounts payable by Owner for taxes which may result from this proposal.



A. 4176 Warbler Road
 P.O. Box 294049
 Phelan, CA 92329
 P. (760) 868-1212
 F. (760) 868-2323
 W. www.pphcsd.org

MEMORANDUM

DATE: March 13, 2024

TO: Don Bartz, General Manager

FROM: By: Sean Wright, Water Operations Manager

SUBJECT: Discussion Regarding the Options for Placement of Well 18 & Necessary Infrastructure to Support the Production Capacity

STAFF RECOMMENDATION

Staff recommends the District purchase and install 30,600 feet of DI350 Ductile Iron Pipe and utilize the existing wells located at the former Meadowbrook Dairy facility eliminating the need for drilling a new well and connecting the existing four wells.

BACKGROUND

There are 3 plausible options regarding the placement of Well 18 with operations differences existing between the three. The first option is to connect the existing wells located at the former Meadowbrook Dairy by virtue of a 5.8-mile transmission pipeline eliminating the need for drilling. The second option is to utilize the existing Well 15 transmission pipeline and drill a new well South py Southwest of Well 15, mitigating the need for such an expansive transmission line down to +/-4000 feet. The third option is to utilize the property owned by the District where the fill station is located and CEQA has been completed eliminating the need for a transmission line.

Option 1

From the existing well 15 pipelines to the dairy property is roughly 5.8 miles. 5.8 miles at 5280 feet per mile is +/- 30,600 feet. The going rate is \$52 per foot for ductile iron placing the cost for pipe at \$1,591,200 for ductile iron pipe and an additional \$78,000 for isolation valves (15) and hydrants (6). Staff has had conversations with distributors and suppliers about the potential of a discount given the quantity, 5% is a possibility.

Staff laid 5,500 feet in 16 days putting us around 350- 400 of pipe installed per day. This would be a transmission line, it is expected to go a little quicker at 400-500 feet per day because of fewer valves and hydrants. Estimation of time would be 60 +/- working days to install. Rental for excavator and loaders would be approximately \$160,000, SCADA is an additional \$50,000.

The elevation change is 300' between the existing pipeline and the dairy giving a total dynamic head of 150 psi, pumps within the wells can be built to overcome that amount of TDH negating the need for a booster station at the dairy site although having storage assets and boosting facilities would be preferable. This area is the most desirable in terms of water production with a known quantity of 1350 gallons per minute. Staff estimates the yield from the first two of the four wells to yield between 1,400-1,700 gallons per minute. Plans for this option exist at the 50% complete stage as previously this pipeline was explored as part of the former Hexavalent

Chromium blending project. CEQA was completed for the previous blending project and can be Julized by an addendum to incorporate this option as well.

FISCAL IMPACT

Pipeline Ductile Iron Option: \$1,669,200 Pipeline DR 18 Option: \$1,638,600 Outfitting of wells: \$300,000 - \$500,000 Rental Equipment Estimate: \$160,000 SCADA: \$50,000 **Total Estimate: \$ 2,179,200 - \$2,379,200**

Budgeted:

FY-23/24: \$100,000 FY-24/25: \$2,000,000

ATTACHMENT(S)

Proposed Pipeline Alignment Well Name to Number Conversion Theoretical Blend Calculations for Hexavalent Chromium & Arsenic Water Quality Data for Associated Wells

Option 2

The District installed 5,500 feet of 12" DI350 Ductile Iron transmission line to service the production capacity from the recently drilled Well 15. Using known water quality and production capabilities, the area South by Southwest of Well 15 is a good candidate to drill Well 18, utilizing the newly installed turnout located at South Rd and Azalea Rd minimizing the amount of transmission line needed to service the new well to +/-4,000 feet with isolation valves (4) and hydrants (4). The necessary transmission pipeline of 8" DR 18 can be installed using equipment the district owns and operates. No rental equipment is necessary for this option. This area is known to produce between 600-800 gallons per minute.

Well 15 will serve as the template for depth, construction, and materials. Using this analog, the cost to drill the pilot hole, ream, and case is \$1,100,000. An additional \$480,000 is required to equip the well with a pump, motor, and variable frequency drive. SCADA to provide telemetry is \$50,000.

FISCAL IMPACT

8" DR 18 Pipeline to Service Well: \$138,328 Outfitting of well: \$300,000 - \$500,000 Drilling of Well: \$1,100,000 SCADA: \$50,000 CEQA: \$20,000 Property Acquisition: TBD **Total Estimate: \$ 1,608,328 - \$1,808,328**

Budgeted:

FY-23/24: \$100,000

Page 3 of 3

FY-24/25: \$2,000,000

ATTACHMENT(S)

Proposed Area of Interest Map

Option 3

During the planning phase of Well 15, a backup plan was developed and CEQA was completed on the Districts 40-acre parcel housing the fill station and the future Well 16 should Well 15 have been a failure. No transmission pipeline is necessary as there is a 10" Asbestos-Concrete distribution main capable of servicing Reservoirs 1A & 1C much as Well 8 currently does, when Reservoir 1A fills the altitude valve closes, and the water is moved East to Reservoir 1C.

Analyzing the available geotechnical data, and knowing production capabilities in the area by Well 8, this area is the least desirable in terms of water production. Staff estimates this area will yield between 300-500 gallons per minute.

Well 15 will serve as the template for depth, construction, and materials. Using this analog, the cost to drill the pilot hole, ream, and case is \$1,100,000. An additional \$480,000 is required to equip the well with a pump, motor, and variable frequency drive. SCADA to provide telemetry is \$50,000.

FISCAL IMPACT

Transmission Pipeline: \$0 Outfitting of well: \$300,000 - \$500,000 Drilling of Well: \$1,100,000 SCADA: \$50,000 CEQA: \$0 Property Acquisition: \$0 **Total Estimate: \$ 1,450,000 - \$1,650,000**

Budgeted: FY-23/24: \$100,000 FY-24/25: \$2,000,000

ATTACHMENT(S) Well 16 Plot Plan Local Area Map

Option 1

From the existing well 15 pipelines to the dairy property is roughly 5.8 miles. 5.8 miles at 5280 feet per mile is +/- 30,600 feet. The going rate is \$52 per foot for ductile iron placing the cost for pipe at \$1,591,200 for ductile iron pipe and an additional \$78,000 for isolation valves (15) and hydrants (6). Staff has had conversations with distributors and suppliers about the potential of a discount given the quantity, 5% is a possibility.

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FISCAL IMPACT

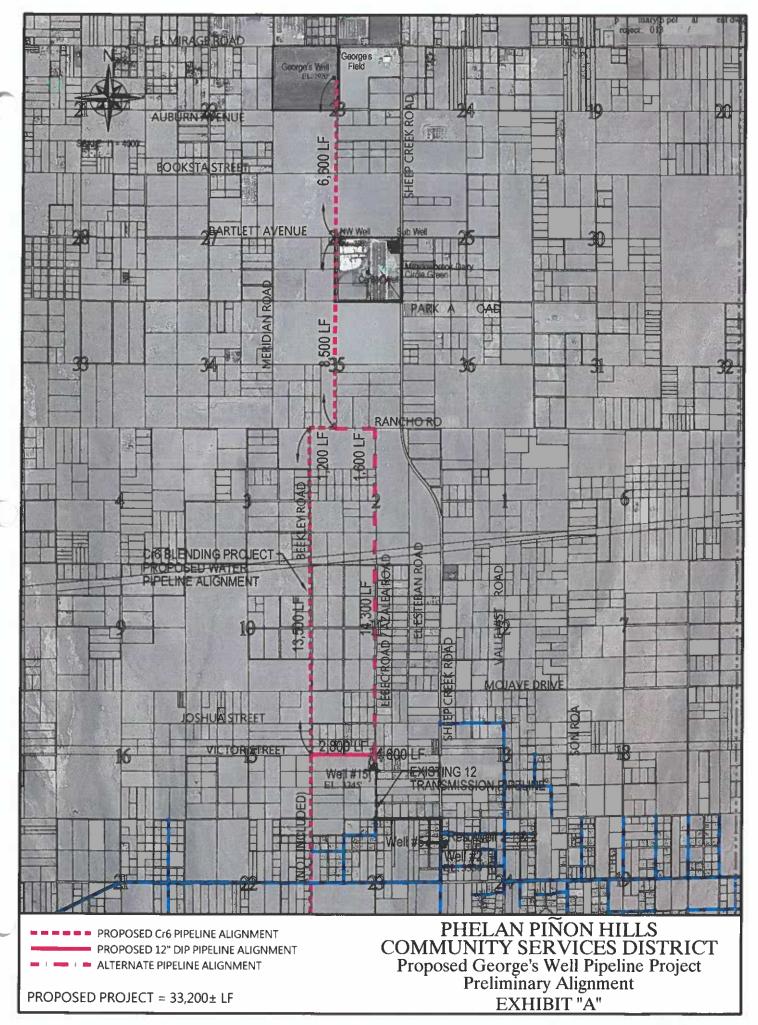
Pipeline Ductile Iron Option: \$1,669,200 Pipeline DR 18 Option: \$1,638,600 Outfitting of wells: \$300,000 - \$500,000 Rental Equipment Estimate: \$160,000 SCADA: \$50,000 **Total Estimate: \$ 2,179,200 - \$2,379,200**

Budgeted:

FY-23/24: \$100,000 FY-24/25: \$2,000,000

ATTACHMENT(S)

Proposed Pipeline Alignment Well Name to Number Conversion Theoretical Blend Calculations for Hexavalent Chromium & Arsenic Water Quality Data for Associated Wells



statewelldesignation	WM Report Name	name	NEW WELL NUMBER
05N07W36E01	WELL 8 - TEST WELL	WELL 8 - TEST WELL	WELL # 26
06N07W14K01	HOME IRRIGATION WELL	HOME IRRIGATION WELL	WELL # 25
06N07W14K02	DOMESTIC WELL	DOMESTIC WELL	WELL # 24
06N07W23F01	GEORGE'S WELL	GEORGE'S WELL	WELL # 22
06N07W26J01	DAIRY CORNER (SUB)	Dairy NE Corner Well	WELL # 21
06N07W26J02	CENTER WELL (DAIRY)	CENTER WELL (DAIRY)	WELL # 20
06N07W26K03	NEW DAIRY WELL (NW Corner)	Dairy NW Corner Well	WELL # 23

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Wells were renamed 4/11/2018

State of California Department of Public Health Office of Ornking Water

MONTHLY BLENDING RECORD

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State of California Department of Public Health Office of Drinking Water

MONTHLY BLENDING RECORD

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Units noted

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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: R b Project: E Manager: E	airy Wells					r: 13A1324 01/16/13 17 01/30/13
Dairy Sub Well (NIS)		I3A1324	-04 (Water)	Sample I	Date: 01/16/13	10:00	Sampler: E	Brian Gerke
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Field Analyses									
Cl Res (Field)	Field	0	mg/L			01/16/13	01/16/13	1303297	
General Chemical Analyses			Ū						
	SM 2320 B	87	mall	5.0		01/19/15	61/19/15	1202201	
Alkalinity, Total (as CaCO3) Bicarbonate (HCO3)	SM 2320 B	87 92	mg/L	5.0		01/18/13	01/18/13	1303381	
Carbonate (CO3)	SM 2320 B	7.2	mg/L	5.0		01/18/13 01/18/13	01/18/13	1303381	
Chloride (Cl)	EPA 300.0	18	mg/L		\$00		01/18/13	1303381	
Cyanide (CN)	SM4500CNF	18 ND	mg/L ug/L	1.0 100	500 150	01/17/13	01/17/13	1303344	
Specific Conductance (E.C.)	SM 2510B	740	ug/L umhos/cm	2.0	150	01/21/13 01/18/13	01/21/13	1304006 1303381	
Fluoride (F)	EPA 300.0	1.4	mg/L	0.10	2	01/17/13	01/17/13	1303381	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0	7	01/18/13	01/18/13	1303344	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.5	01/17/13	01/17/13	1303185	
Nitrate (NO3)	EPA 300.0	49	mg/L	2.0	45	01/17/13	01/17/13	1303183	
Nitrate + Nitrite (as N)	EPA 300.0	11000	ug/L	400	10000	01/17/13	01/17/13	1303344	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	01/17/13	01/17/13	1303344	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	01/22/13	01/22/13	1304090	
pH (Lab)	SM 4500HB	8.5	pH Units		ů.	01/17/13	01/17/13	1303381	
Sulfate (SO4)	EPA 300.0	200	mg/L	0.50	500	01/17/13	01/17/13	1303344	
Total Filterable Residue/TDS	SM 2540C	480	mg/L	5.0	1000	01/18/13	01/21/13	1303414	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	01/24/13	01/24/13	1304242	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	01/18/13	01/18/13	1303402	
Arsenic (As)	SM3113-B	12	ug/L	2.0	10	01/23/13	01/23/13	1304109	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	01/24/13	01/24/13	1304242	
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	01/23/13	01/23/13	1304135	
Boron (B)	EPA 200.7	180	ug/L	100		01/24/13	01/24/13	1304242	
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	01/23/13	01/23/13	1304135	
Calcium (Ca)	EPA 200.7	49	mg/L	1.0		01/22/13	01/22/13	1304032	
Chromium (Total Cr)	EPA 200.7	ND	ug/L	10	50	01/23/13	01/23/13	1304135	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	01/24/13	01/24/13	1304242	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	01/24/13	01/24/13	1304242	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		01/24/13	01/24/13	1304214	
Magnesium (Mg)	EPA 200.7	5.9	mg/L,	1.0		01/22/13	01/22/13	1304032	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	01/24/13	01/24/13	1304242	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	01/16/13	01/18/13	1303268	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	01/23/13	01/23/13	1304135	
Potassium (K)	EPA 200.7	2.0	mg/L	1.0		01/22/13	01/22/13	1304032	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	01/18/13	01/18/13	1303403	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	01/23/13	01/23/13	1304135	
Sodium (Na)	EPA 200.7	98	mg/L	1.0		01/22/13	01/22/13	1304032	

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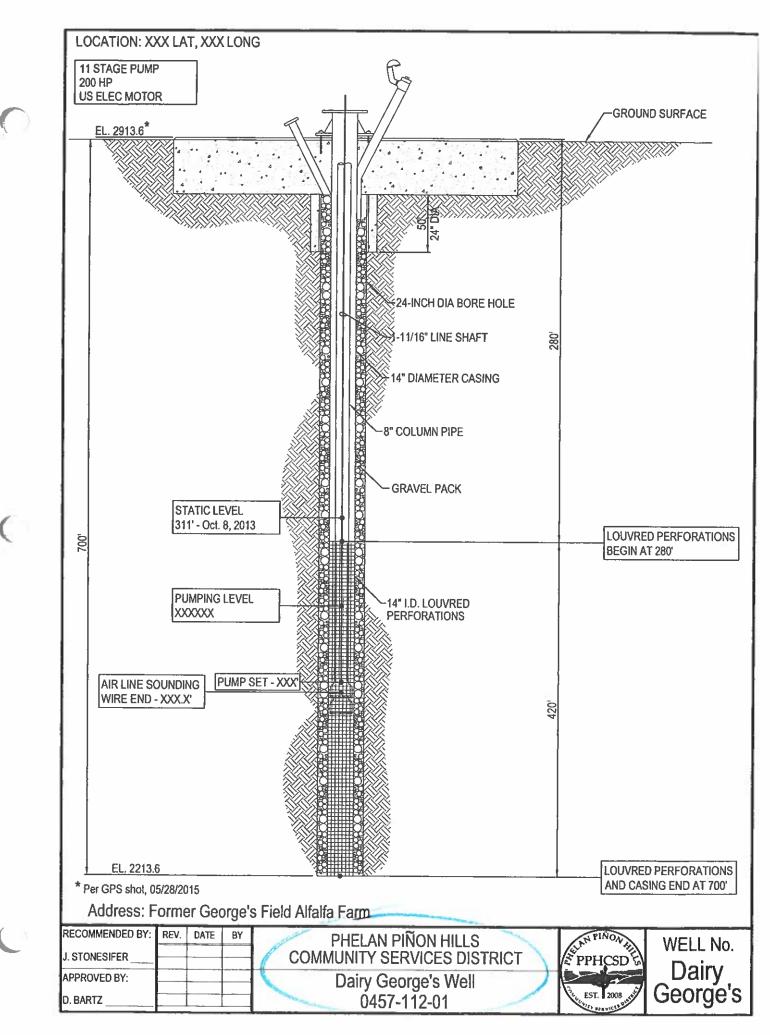
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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			5	Routine Dairy Wells Ernesto Ara					er: 13A1324 01/16/13 17:25 01/30/13
Dairy Sub Well (NIS)		13A1324	-04 (Water	r)	Sample [Date: 01/16/13	10:00	Sampler:	Brian Gerke
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	d Batch	Qualifier
Metals									
Vanadium (V)	EPA 200.9	30	ug/L	3.0		01/18/13	01/18/13	1303390	•
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	01/24/13	01/24/13	1304242	
Anion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	150	mg/L			01/22/13	01/22/13	[CALC]	
Total Anions	Calculated	7.28	mcg/L			01/22/13	01/18/13	[CALC]	
Total Cations	Calculated	7.25	mcq/L			01/22/13	01/22/13	[CALC]	
% difference	Calculated	0.4				01/22/13	01/18/13	(CALC)	

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Phelan Pinion Hills CSD 4176 Warbler Rd		S	Project: R Sub Project: T					Work Order: 15H1748 Received: 08/20/15 13:0
Phelan CA, 92371		Projec	t Manager: S	can Wright				Reported: 09/15/15
Georges Well - Dairy		15111748-	01 (Water)		Sample Da	ate: 08/19/15	14:30	Sampler: Scan Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzee	d Batch Qualifier
Field Analyses								
Temperature (Field)	Field	20.0	°C			08 19/15	08/19/15	1534500
General Physical Analyses								
Apparent Color	SM 2120B	ND	Color Units	3.0	15	08/20/15	08 20.15	1534554
Odor Threshold	EPA 140.1M	l	TON	1	3	08/20/15	08 20.15	
Turbidity	EPA 180.1	0,8	NTU	0_1	5	08/20/15	08.20.15	1534554
General Chemical Analyses								
Alkalinity, Total (as CaCO3)	SM 2320 B	74	mg/L	5.0		08/21/15	08/21/15	1534500
Bicarbonate (IICO3)	SM 2320 B	90	mg L	5.0		08/21/15	08/21/15	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		08/21/15	08/21/15	
Chloride (Cl)	EPA 300.0	20	mg/L	1.0	500	08/20/15	08/20/15	
Langelier Index at Source Tmp	SM 203	0.27				08/19/15	08/19/15	1534500
Langelier Index at 60 C	SM 203	0.88				08/19/15	08/19/15	1534500
Aggressive Index	SM 203	12.11				08/19/15	08/19/15	1534500
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	08/21/15	08/21/15	
Specific Conductance (E.C.)	SM 2510B	730	umhos/cm	2.0	1600	08/21/15	08/21/15	1534500
Fluoride (F)	EPA 300.0	1.4	mg/L	0.10	2	08/20/15	08/20/15	1534502
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/21/15	08/21/15	1534500
MBAS (LAS Mole, Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.5	08/20/15	08/20/15	1534478
Nitrate (NO3)	EPA 300.0	2.7	mg/L	2.0	45	08/20/15	08/20/15	1534502
Nitrate + Nitrite (as N)	EPA 300.0	6-40	ugʻl.	-100	10000	08/20/15	08/20/15	1534502
Nitrite as N (NO2-N)	EPA 300,0	ND	ugʻl.	400	1000	08/20/15	08/20/15	1534502
Perchlorate (ClO4)	EPA 314.0	ND	ug'l.	4.0	6	08/20/15	08/20/15	1534430
pH (Lab)	SM-450011B	8.2	pH Units			08/20/15	08/20/15	1534500
Sulfate (SO4)	EPA 300.0	260	mg/L	0.50	500	08/20/15	08/20/15	1534502
Total Filterable Residue/TDS	SM 2540C	500	mg/t.	5.0	1000	08/20.15	08/21/15	1534476
<u>Metals</u>								
Aluminum (Al)	EPA 200.7	ND	ug (.	50	200	08/24/15	08/24/15	1535022
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	08/24/15	08/24/15	1535033
Arsenic (As)	SM3113-B	8.3	ug/1.	2.0	10	08/27/15	08 27/15	1535359
Barium (Ba)	EPA 200.7	ND	ug/1.	100	1000	08/24/15	08/24/15	1535022
Beryllium (Bc)	EPA 200.7	ND	ug/L	1.0	4	08/21/15	08/21/15	1534542
Boron (B)	EPA 200.7	180	ug/L	100		08/24/15	08/24/15	1535022
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	08/21/15	08/21/15	1534542
Calcium (Ca)	EPA 200.7	48	mg/L	1.0		08/27/15	08/27/15	1535380
Chromium (+6)	EPA 218.6	2.9	ug/L	1.0	10	08/19/15	08/20/15	1534029
Chromium (Total Cr)	EPA 200.7	ND	ug/L	10	50	08/21/15	08/21/15	1534542
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	08/24/15	08/24/15	1535022
Iron (Fe)	EPA 200.7	130	ug/L	100	300	08/24/15	08/24/15	1535022
Lcad (Pb)	SM3113-B	ND	ug/L	5.0		08/21/15	08/21/15	1534558

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Phelan Pinion Hills CSD			Project: 1					Work Orde	r: 15H1748
4176 Warbler Rd		Si	ib Project:	Title 22				Received:	08/20/15 13:0
Phelan CA, 92371		Project	Manager: 5	Sean Wright			_	Reported:	09/15/15
Georges Well - Dairy		15H1748-()1 (Water)		Sample Date:	08/19/15	14:30	Sampler:	Sean Wright
Analyse	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyze	d Batch	Qualifier
Metals						-			
Magnesium (Mg)	EPA 200.7	5.4	ing/L	1.0		08/27/15	08/27/15	1535380	1
Manganese (Mn)	EPA 200.7	NÐ	ug/L	20	50	08/24/15	08/24/15		
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	08/31/15	09/01/15		
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	08/21/15	08/21/15		
Potassium (K)	EPA 200,7	1.7	ing I	1.0		08/27/15	08/27/15		
Sclenium (Sc)	SM3113-B	ND	ug I.	5.0	50	08/25/15	08/25/15		
Silver (Ag)	EPA 200.7	ND	ug.L	10	100	08/21/15	08/21/15		
Sodium (Na)	EPA 200.7	92	ing/L	1.0		08/27/15	08/27/15		
Thallium (TI)	EPA 200.9	ND	ug/L	1.0	2	08/24/15	08/24/15	1535020	
Vanadium (V)	EPA 200.9	32	ug/L	3.0		08/24/15	08/24 15	1535012	
Zine (Zn)	LPA 200.7	ND	ug. L	50	5000	08/24/15	08/24/15	1535022	
nion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	140	mg/L			08/27/15	08/27/15	[CALC]	
fotal Anions	Calculated	7.57	meq 1,			08/27/15	08/21/15	[CALC]	
Total Cations	Calculated	6.89	meq.1.			08/27/15	08/27/15	(CALC)	
% difference	Calculated	9.3				08/27/15	08/21/15	[CALC]	
adiochemistry Analyses									
Gross Alpha	EPA 900.0	10	pCi4.	3.0	15	08/21/15	08/25/15	1534509	GA-01
Gross Alpha Counting Error	EPA 900.0	2.5	pCi/L			08/21/15	08/25/15	1534509	
Gross Alpha Min Det Activity	EPA 900.0	1.6	pCi/L			08/21/15	08/25/15	1534509	
olatile Organic Analyses									
/inyl Chloride (VC)	EPA 524.2	ND	ug/L	0.50	0.5	08/25/15	08/25/15	1535200	
Frichlorofluoromethane (FREON 11)	EPA 524.2	ND	ng4.	5.0	150	08.25/15	08/25/15	1535200	
.1-Dichloroethylene (1,1-DCE)	EPA 524.2	ND	ug I.	0.50	6	08.25/15	08.25/15	1535200	
1.2-Trichloro-1.2.2-trifluoroethane	EPA 524.2	NÐ	ug/L	10	1200	08/25/15	08/25/15	1535200	9
Dichloromethane (Methylene Chloride)	EPA 524.2	ND	ug/L	0.50	5	08/25/15	08/25/15	1535200	
rans-1.2-Dichloroethylene (t-1.2-DCE)	EPA 524.2	ND	ug/L	0.50	10	08/25/15	08/25/15	1535200	
Methyl tert-Butyl Ether	LPA 524.2	ND	ug/L	3.0	13	08.25.15	08.25/15	1535200	
.1-Dichloroethane (1,1-DCA)	EPA 524.2	ND	ug/l	0,50	5	08:25/15	08/25/15	1535200	
is-1,2-Dichloroethylene (c-1,2-DCE)	EPA 524.2	ND	ug4.	0.50	6	08/25/15	08/25.15	1535200	
hloroform (Trichloromethane)	EPA 524.2	ND	ug't.	1.0	1	08/25/15	08/25/15	1535200	
arbon Tetrachloride	EPA 524.2	ND	ugʻl.	0.50	0,5	08.25/15	08/25/15	1535200	
.1.1-Trichloroethane (1.1.1-TCA)	EPA 524,2	ND	ug/L	0,50	200	08/25/15	08/25/15	1535200	
Benzene	EPA 524.2	ND	ug: L	0.50	1 (08/25/15	08 25/15	1535200	
.2-Dichloroethane (1,2-DCA)	EPA 524.2	ND	ug/L	0.50	0.5	08.25/15	08/25/15	1535200	
Trichloroethylene (TCE)	EPA 524.2	ND	ug/1.	0.50	5 0	08/25/15	08/25/15	1535200	
.2-Dichloropropane	EPA 524.2	ND	ug/L	0.50	5 0	08/25/15	08/25/15	1535200	
Bromodichloromethane	EPA 524.2	ND	ug/L	1.0	(08/25/15	08/25/15	1535200	
oluene	EPA 524.2	ND	uք/L	0.50	150 0	08/25/15	08/25/15	1535200	

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Phelan Pinion Hills CSD			Project:					Work Orde	r: 15H1748
4176 Warbler Rd		Su	ib Project:	Title 22				Received:	08/20/15 13:
Phelan CA, 92371		Project	Manager:	Sean Wright				Reported:	09/15/15
Georges Well - Dairy		15H1748-0	I (Water)		Sample Da	ate: 08/19/15	14:30	Sampler:	Scan Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
olatile Organic Analyses									
Tetrachloroethylene (PCE)	EPA 524,2	ND	ugʻl.	0.50	5	08/25/15	08/25/15	1535200	1
1.1.2-Trichloroethane (1.1.2-TCA)	EPA 524.2	ND	ug/L	0.50	5	08/25/15	08/25/15	1535200	
Dibromochloromethane	EPA 524,2	ND	ug-1.	1.0		08/25/15	08/25/15		
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	ug t.	0.50	70	08/25/15	08/25/15		
Ethyl Benzene	EPA 524.2	ND	ug/L	0.50	300	08/25/15	08/25/15		
cis-1,3-Dichloropropene	EPA 524.2	ND	ug/1.	0.50		08/25/15	08/25/15	1535200	
m,p-Xylene	EPA 524.2	ND	ug/L	1.0		08/25/15	08/25/15	1535200	
o-Xylene	EPA 524.2	ND	ug/1.	0.50		08/25/15	08/25/15		
trans-1,3-Dichloropropene	EPA 524.2	ND	սը է	0.50		08/25/15	08/25/15	1535200	
Styrene	EPA 524.2	ND	ug L	0.50	00	08/25/15	08/25/15	1535200	
Bromoform	EPA 524.2	ND	ug/L	1.0		08/25/15	08/25/15	1535200	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50		08/25/15	08/25/15	1535200	
1.4-Dichlorobenzene (p-DCB)	EPA 524.2	ND	ug/L	0.50	5	08/25/15	08/25/15	1535200	
1.2-Dichlorobenzene (o-DCB)	EPA 524.2	ND	ug/L	0.50	600	08/25/15	08/25/15	1535200	
1,2,4 Trichlorobenzene	EPA 524.2	ND	ug/t	0,50	5	08/25/15	08/25/15	1535200	
Total 1.3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.5	08/25/15	08/25/15	1535200	
Total Trihalomethanes (TTIIM)	EPA 524.2	ND	ug L	1.0	80	08/25/15	08/25/15	1535200	
Total Xylenes (m.p & o)	EPA 524.2	ND	ugit	0.50	1750	08/25/15	08/25/15	1535200	
Surrogete: Bromofluorobenzene	EPA 524-2	87 ".,				08/25/15	08/25/15	1535200	
Surregate: 1.2-Dichlorobenzene-d4	EPA 524.2	84 "				08/25/15	08/25/[5	1535200	
'olatile Organic Analyses / EPA 504							and an end of the		
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug.t.	0.020	0.05	08/27/15	08/27/15	1535357	
Dibromochloropropane (DBCP)	EPA 504.1	ND	ug L	0.010	0.2	08/27/15	08/27/15	1535357	
iemi-Volatile Organic Analyses						00/21/12	00.2 015	1553554	
Endrin	EPA 508.1	ND	ug L	0.10	2	08/26/15	08 20 16	1616317	
Lindane (gamma-BHC)	EPA 508.1	ND	ug/L	0.20	0.2	08/26/15	08/29/15	1535217	
Methoxychlor	EPA 508.1	ND	ng L	10	30	08/26/15	08/29/15	1535217	
Toxaphene	EPA 508.1	ND	ug 1	10	3	08/26/15	08 29/15	1535217	
Chlordane	EPA 508.1	ND	-	0.10	0.1	08/26/15			
Heptachlor	EPA 508.1	ND	ug/L ug/L	0.010	0.0	08/26/15	08/29/15 08/29/15	1535217	
Heptachlor Epoxide	EPA 508.1	ND	սք/ե	0.010	0.01	08/26/15		1535217	
Hexachlorobenzene	EPA 508.1	ND	սց/ե	0,50	0.01	08/26/15	08/29/15	1535217	
Hexachlorocyclopentadiene	EPA 508.1	ND	սցե սցե	1.0	50	08/26/15		1535217	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	սցւ	0,50			08/29/15	1535217	
Surrogate: Dibuylehlowndate	EPA 508.1	130 "	սեր	0,00	0.5	08/26/15 08/26/15	08/29/15		
Dalapon	EPA 515.4	ND	ug/L	10	200	08/21/15	08/29/15	1535217	
2,4,5-TP (SILVEX)	EPA \$15.4	ND	սց/ե	1.0	50		09/02/15	1535454	
Bentazon (BASAGRAN)	EPA 515.4	ND	-			08/21/15	09/02/15	1535454	
Picloram	EPA 515.4	ND	ug/L ug/L	2.0	18 .500	08/21/15 08/21/15	09/02/15 09/02/15	1535454 1535454	

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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: 1 ib Project: 1 Manager: 3					Work Order Received: Reported:	15H1748 08/20/15 13:0 09/15/15
Georges Well - Dairy		15H1748-0	I (Water)		Sample Date	: 08/19/15	14:30	Sampler: S	ican Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Semi-Volatile Organic Analyses									
Pentachlorophenol (PCP)	EPA 515.4	ND	ug/L	0,20	E.	08/21/15	09/02/15	1535454	
Dinoseb (DNBP)	EPA 515.4	ND	ugʻL	2.0	7	08/21/15	09/02/15	1535454	
Surveyate: 2.4-Dichlorophenylacetic acid	EPA 515.4	100 %				08/21/15	09/02/15	1535454	
Alachlor (ALANEX)	EPA 525.2	ND	ug-l.	1.0	2	08/24/15	08/25/15	1535030	
Atrazine (AATREX)	EPA 525.2	ND	ug/L	0.50	- i	08/24/15	08/25/15	1535030	
Benzo(a)pyrene	EPA 525.2	ND	ug/t.	0,10	0.2	08/24/15	08/25/15	1535030	
Diethylhexylphthalate (DLHP)	EPA 525.2	ND	ug't.	3.0	4	08/24/15	08/25/15	1535030	
Di(2-cthylhexyl) adipate	EPA 525.2	ND	ug/L	5.0	400	08/24/15	08/25/15	1535030	
Molinate (ORDRAM)	EPA 525.2	ND	ug/L	2.0	20	08/24/15	08/25/15	1535030	
Simazine (PRINCEP)	EPA 525.2	ND	ug/L	1.0	4	08/24/15	08/25/15	1535030	
Thiobencarb (BOLERO)	EPA 525.2	ND	ug/1.	1.0	70	08/24/15	08/25/15	1535030	
Surrogate: 1.3-dimethy1-2-nitrobenzene	FPA 525.2	101 %				08/24/15	08/25/15	1535030	
Surregate: Perylenc-d12	EPA 525.2	107 %				08/24/15	08/25/15	1535030	
Surrogate Triphenylphosphate	EPA 525.2	111 %				08/24/15	08/25/15	1535030	
Oxamyl (VYDATE)	EPA 531.1	ND	ug/L	20	50	08/24/15	08/25/15	1535037	
Carbofuran (FURADAN)	EPA 531.1	ND	ug/I.	5.0	18	08/24/15	08/25/15	1535037	
Glyphosate	EPA 547	ND	ug/t.	25	700	08/21/15	08/22/15	1534560	
Endothall	EPA \$48.1	ND	ug/L	45	100	08/25/15	08/27/15	1535097	

This sample has a gross alpha + 0.84 counting error result greater than 5 pCi/L. This high result will often trigger additional analyses such are uranium or radium. Please contact us should you need further analysis.

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

Bel Slaufy

Bob Glaubig Laboratory Director

Page 4 of 4

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088



LA Testing

520 Mission Street South Pasadena, CA 91030 Phone/Fax: (323) 254-9960 / (323) 254-9982 http://www.LATesting.com / pasadenalab@latesting.com LA Testing Order ID: 321517978 Customer ID: 32CLIN51 Customer PO: Project ID:

Attn:	Bob Glaubig	Phone:	(909) 825-7693
1	Clinical Laboratory of San Bernardino	Fax:	
	PO BOX 329	Collected:	08/19/2015
	San Bernardino, CA 92402	Received:	08/21/2015
		Analyzed:	09/01/2015

(Proj: 15H1748

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

		Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)		ASBESTOS							
Sample ID Client / EMSL	Sample Filtration Date/Time			Area Analyzed (mm²)	Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits			
							MFL	. (million libers per	liter)			
GEORGES WELL - DAIR	8/20/2015	100	1288	0.0660	None Detected	ND	0.20	<0.20	0.00 - 0.72			
321517978-0001	12:20 PM							0.20				

Analyst(s)

Sherrie Ahmad

R

Jerry Drapala Ph.D. Laboratory Manager or Other Approved Signatory

Any questions please contact Jerry Drapata,

Initial report from: 09/03/2015 00:02:42

Sample collection and containers provided by the client, acceptable bottle blank level is defined as \$0.01MFL>10um ND+None Detected. This report relates only to those items tested. This report may not be reproduced, except in full, without written permission by LA Testing. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing South Pasadena. CA CA ELAP 2283

(1)

Test Report: TEM100.2-7,31.1 Printed: 9/03/2015 12:02AM

Page 1 of 1

OrderID: 321517978

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15H1748

321517978

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino	LA Testing
21881 Barton Road	520 Mission Street
Grand Terrace, CA 92313	South Pasadena, CA 91030
Phone: 909.825.7693	Phone :(323) 254-9960
Fax: 909.825.7696	Fax: (323) 254-9982
Project Manager: Bob Glaubig	
Please email results to Project Manager: Bob Glaubi [v] glaubig@clinical-lab.com [] ybarra@clinical-	g -lab.com styles@clinical-lab.com } cole@clinical-lab.com
California EDT transfer those samples with P Transfer File requested; log in with Element I	S codes provided [] Yes [V] No ID only [] Yes [V] No
Turn Around Time [1/10 Days [] 5 Days Subcontract Comments:	[] Other Days
Analysis	Comments
Sample ID: Georges Well - Dairy / 15H1748-01	Sampled: 08/19/15 14:30 PS Code:
	Water WTX ID: UCMR ID:
Ashestos FPA 100.2	UGHR ID:
ontainers Supplied:	
Quart Plastic (J)	
- 4	
	Tenup 10. °10 C
	4
	:00 (Red Nenun (w.) 8/21/15
O \downarrow \downarrow	april and a pulse
150 Duy 08/21/15 08	(tod (v)) op(1)
Released By Date / Time	Received By U Date / Time
V	\bigcirc
Released By Date / Time	Received By Date / Time
1	Page 1 Of 1

WECK LABORATORIES, INC

Analytical Laboratory Service - Source 1964

Certificate of Analysis

Project: 15H1748

 Report Date:
 09/15/15 10:35

 Received Date:
 08/21/15 10:20

 Turnaround Time:
 Normal

 Phones:
 (909) 825-7693

 Fax:
 (909) 825-7696

P.O. #:

Attn: Bob Glaubig

Client: Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313

Dear Bob Glaubig :

Enclosed are the results of analyses for samples received 8/21/2015 with the Chain of Custody document. The samples were received in good condition, at 4.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5H21024-01 Sampled by: Client	Sample Sampled		Ma	trix: Water						
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
2,3,7,8-TCDD (Dioxin)	ND		5.00	pg/l	1	EPA 1613B	8/27/15	9/10/15 19:05	W5H1479	
Diquat	ND		4.0	ug/l	1	EPA 549-2	8/25/15	9/11/15 14:56	W5H1341	

WECK LABORATORIES, INC.

Analytical Education y Sci vice - Stary 1934

Certificate of Analysis

Quality Control Section

Diquat and Paraquat by EPA 549.2 - Quality Control

Batch W5H1341 - EPA 549.2

									_
Blank (W5H1341-BLK1)					Prepared: 08/25	/15	Analyzed: 09/11	/15 14:26	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	6REC	%REC Limits	RPD	RPD
Diquat		ND		ug/l					
LCS (W5H1341-8S1)					Prepared: 08/25	/15	Analyzed: 09/11	/15 14:30	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike	6REC	%REC Limits	RPD	RPD Limit
Diquat		14.1		ug/l	20.0	71	48-130		
Matrix Spike (W5H1341-MS1) Source: 5H21005-01					Prepared: 08/25	/15 /	Analyzed: 09/11	/15 14:34	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	AREC	%REC Limits	RPD	RPD Limit
Diquat	ND	14.3		ug/l	20.0	72	46-122		
Matrix Spike (W5H1341-MS2)	So	urce: 5H2406	7-10		Prepared: 08/25	/15 /	Analyzed: 09/11	/15 14:43	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	6REC	%REC Limits	RPD	RPD Limit
Diquat	ND	11.8		ug/l	20.0	59	46-122		
Matrix Spike Dup (W5H1341-MSD1)	So	urce: 5H2100	5-01		Prepared: 08/25	/15 /	Analyzed: 09/11	/15 14:38	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	6REC	%REC Limits	RPD	RPD Limit
Diquat	ND	13.5		ug/l	20.0	67	46-122	6	30
Matrix Spike Dup (W5H1341-MSD2)	So	urce: 5H2406	7-10		Prepared: 08/25	/15	Analyzed: 09/11	/15 14:47	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike	6REC	%REC Limits	RPD	RPD Limit
Diquat	ND	12.8		ug/I	20.0	64	46-122	8	30

Semivolatile Organics - Low Level by Tandem GC/MS/MS - Quality Control

Batch W5H1479 - EPA 1613B

Blank (W5H1479-BLK1)				1	Prepared: 08	/27/15 A	nalyzed: 09/10	0/15 17:53	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		ND		pg/I					
LCS (W5H1479-BS1)				4	Prepared: 08	/27/15 A	nalyzed: 09/10	0/15 18:11	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		6.28		pg/l	5.00	126	50-148		
LCS Dup (W5H1479-BSD1)				F	Prepared: 08,	/27/15 A	nalyzed: 09/10)/15 18:29	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		7.40		pg/l	5.00	148	50-148	16	20

Page 2 of 3



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature Contact: Brandon Gee (Project Manager) ELAP # 1132



LACSD # 10143 NELAC #4047-002 ORELAP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its enlirety.

Flags for Data Qualifiers:

 ND
 NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).

 Jub
 Subcontracted analysis, original report enclosed.

 JL
 Method Detection Limit

 RL
 Method Reporting Limit.

 MDA
 Minimum Detectable Activity

 NR
 Not Reportable



Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15H1748

5HZ1024

SENDING LABORATORY:	RECEIVING LABORATORY:						
Clinical Laboratory of San Bernardino	Weck Lab, Analytical & Environmental						
21881 Barton Road	Analytical & Environmental Svc 14859 E Clark Ave						
Grand Terrace, CA 92313	Industry, CA 91745						
Phone: 909.825.7693	Phone :(626) 336-2139						
Fax: 909.825.7696	Fax: (626) 336-2634						
Project Manager: Bob Glaubig							
Please email results to Project Manager: Bob Glaubig glaubig@clinical-lab.com [] ybarra@clinical-l	s lab.com [] styles@clinical-lab.com [] cole@clinical-lab.com						
California EDT transfer those samples with PS Transfer File requested; log in with Element II							
Turn Around Time [V] 10 Days [] 5 Days Subcontract Comments:	[] Other Days						
	[] Other Days Comments						
Subcontract Comments:							
Subcontract Comments:	Comments Sampled: 08/19/15 14:30 PS Code: Water WTX ID:						
Subcontract Comments: Analysis Sample ID: Georges Well - Dairy / 15H1748-01	Comments Sampled: 08/19/15 14:30 PS Code: Water WTX ID:						
Subcontract Comments: Analysis Sample ID: Georges Well - Dairy / 15H1748-01 549 Diquat	Comments Sampled: 08/19/15 14:30 PS Code: Water WTX ID:						

	RI Dur	Os/21/15 05:00	De la	n R/21/15 Gin	1 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Released By		Received By	Date/Time	
6	Ale thorno	8/21/15 10:20	Jaigmon	BIULIS 1020 4-74	
	Released By	Date / Time	Received By	Date / Time	1



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: F b Project: I Manager: E	Dairy Wells	za			Received:	er: 13A1324 01/16/13 17:2 01/30/13
Georges Well (NIS)		13A1324	-07 (Water)	Sample I	Date: 01/16/13	10:15	Sampler:	Brian Gerke
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyze	d Batch	Qualifier
Field Analyses									
Cl Res (Field)	Field	0	mg/L			01/16/13	01/16/13	1303297	7
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	86	mg/L	5.0		01/18/13	01/18/13	1303381	
Bicarbonate (HCO3)	SM 2320 B	84	mg/L	5.0		01/18/13	01/18/13		
Carbonate (CO3)	SM 2320B	10	mg/L	5.0		01/18/13	01/18/13		
Chloride (Cl)	EPA 300.0	13	mg/L	1.0	500	01/17/13	01/17/13		
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	01/21/13	01/21/13		
Specific Conductance (E.C.)	SM 2510B	590	umhos/cm	2.0	1600	01/18/13	01/18/13		
Fluoride (F)	EPA 300.0	1.5	mg/L	0.10	2	01/17/13	01/17/13		
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0	-	01/18/13	01/18/13		
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.5	01/17/13	01/17/13		
Nitrate (NO3)	EPA 300.0	ND	mg/L	2.0	45	01/17/13	01/17/13		
Nitrate + Nitrite (as N)	EPA 300.0	ND	ug/L	400	10000	01/17/13	01/17/13		
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	01/17/13	01/17/13		
Perchlorate (CIO4)	EPA 314.0	ND	ug/L	4.0	6	01/22/13	01/22/13		
pH (Lab)	SM 4500HB	8.7	pH Units			01/17/13	01/17/13		
Sulfate (SO4)	EPA 300.0	170	mg/L	0.50	500	01/17/13	01/17/13		
Total Filterable Residue/TDS	SM 2540C	350	mg/L	5.0	1000	01/18/13	01/21/13		
Metals			Ū.						
Aluminum (Al)	EPA 200.7	ND	na/l	50	200	01/24/13	01/24/12	1204242	
Antimony (Sb)	SM3113-B	ND	ug/L ug/L	50 6.0	200 6	01/24/13	01/24/13		
Arsenic (As)	SM3113-B	9.3	ug/L	2.0	10	01/23/13	01/23/13		
Barium (Ba)	EPA 200.7	ND	+	100	1000	01/24/13			
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	01/23/13	01/24/13		
Boron (B)	EPA 200.7	200	ug/L ug/L	100	4	01/23/13	01/23/13		
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	01/23/13	01/23/13		
Calcium (Ca)	EPA 200.7	12	mg/L	1.0	J	01/23/13	01/22/13		
Chromium (Total Cr)	EPA 200.7	ND	ug/L	1.0	50	01/23/13	01/22/13		
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	01/23/13	01/23/13		
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	01/24/13	01/24/13		
Lead (Pb)	SM3113-B	ND	ug/L	5.0	500	01/24/13	01/24/13		
Magnesium (Mg)	EPA 200.7	ND	mg/L	1.0		01/22/13	01/24/13		
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	01/24/13	01/24/13		
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	01/16/13	01/18/13		
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	01/23/13	01/23/13		
Potassium (K)	EPA 200.7	ND	mg/L	1.0		01/22/13	01/22/13		
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	01/18/13	01/18/13		
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	01/23/13	01/23/13		
Sodium (Na)	EPA 200.7	110	mg/L	2.0			01/22/13		
Thallium (TI)	EPA 200.9	ND	ug/L	1.0	2	01/18/13	01/18/13		

Page 13 of 14

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			2	Routine Dairy Wells Ernesto Ara		Work Order: 13A1324 Received: 01/16/13 17;2: Reported: 01/30/13				
Georges Well (NIS)								15 Sampler: Brian Gerke		
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier	
Metals										
Vanadium (V)	EPA 200.9	25	ug/L	3.0		01/18/13	01/18/13	1303390		
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	01/24/13	01/24/13	1304242		
Anion / Cation Balance										
Hardness, Total (as CaCO3)	Calculated	31	mg/L			01/22/13	01/22/13	(CALC)		
Total Anions	Calculated	5.69	mcq/L			01/22/13	01/18/13	[CALC]		
Total Cations	Calculated	5.39	mcq/L			01/22/13	01/22/13	[CALC]		
% difference	Calculated	5.5				01/22/13	01/18/13	[CALC]		

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

Bet Slaufy

Bob Glaubig Laboratory Director

Page 14 of 14

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Chain of Custody	Turn Around Time I	(4) Special (W) Well (D) Distribution all analyses can be processed as rush if Ibµ (Sigu) (Sigu) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D
DAIRY W (NIS) (760) 244-3481	Client Job No.Analysis Requested (760) 868-2323Destimation Laboratory (760) 868-2323 (760) 868-2323Destimation Laboratory (70) 868-2323 (760) 963 (20) 800 (70) 800 (70) 963 (70) 800 (70) 863 (70) 800 (10) 863 (70) 800 (11) 801 (70) 800 (11) 801 (70) 87 (11) 801 (70) 87 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 801 (71) 90 (11) 800 (71) 90 (11) 800 (71) 90 (11) 800 (71) 90 (11) 800 (71) 90 (11) 800 (71) 90 </th <th>Image: Intervention Image: Intervention Image: Intervention Image: Intervention</th>	Image: Intervention Image: Intervention
Geo-Monitor, Inc. 17152 Darwin Ave Hesperia, CA 92340	Cilient Phelan Pinion Hills CSD Address 4176 Warbler Rd. Address 4176 Warbler Rd. Phone No. 760) 868-1212 Fax No. Phone No. 760) 868-1212 Fax No. System No. 3610120 760) 86 System No. 3610120 760) 76 System No. 3610120 760) 76 System No. 3610120 760/16 System No. 3610120 760/16 System No. 3610120 76/16 Project Name DAIRY WELLS 76/16 Comments Daire 16/17 Date Time 88 16/16 Diffe/13 9.45 Monthorits 16/16 1/16/13 10 cs Darity 26/16 1/16/13 10 cs Darits 16/11 1/16/13 10 cs Darity 16/11 1/16/13 10 cs Darits 16/11 1/16/13 10 cs Darits 16/11 1/16/13 10 cs Darits 16/11 1/16/13 10 cs	Preservatives: (1) Na $_2$ S ₂ O ₃ (3) Cold Sam Preservatives: (1) Na $_2$ S ₂ O ₃ (3) Cold Sam (2) H ₂ SO ₄ / H ₂ S(Signi) (3) Cold All tr (2) H ₂ SO ₄ / H ₂ S(Signi) (4) All tr (3) Cold (4) (2) H ₂ SO ₄ (2) H ₂ SO ₄ / H ₂ S(Signi) (5) (2) H ₂ SO ₄ (4) (7) (7) (7) (5) (7) (7) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (8) (8) (8) (8) (7) (7) (7) (7) (8) (8) (8) (8) (8) (8) (8) (8)

Geo-Monitor, Inc.



Client:		Phelan Pinion Hills CSD 4176 Warbler Rd. Phelan, CA 92371			<i>Contact:</i> <i>Phone:</i> <i>Fax:</i> <i>System No</i>	Sean Wrig (760) 868- (760) 868-2 3610120	1212	
Project:		Georges Well - Dairy			Cystern Ne			
Sampler: Date Samp Date/Time Date/Time I Date Repoi	Setup: Read:	Sean Wright August 19, 2015 August 19, 2015 1600 August 20, 2015 1000 August 20, 2015						
			Results					
				01.0	0	SM 9.		SM 9215B
Laboratory ID	Sample Time	Sample Location		Cl Res (mg/L)	Sample Type	Total Coliform	E. coli	HPC cfu / 1 mL
B476	14:30	Georges Well Bac	c-T		4-W	Present (1)	Absent	

(1) Notified Sean W. 8-20-15 @ 12:25

<u>Sample Types</u> 1 = routine 2 = repeat 3 = replacement 4 = special W = well D = distribution

Director:

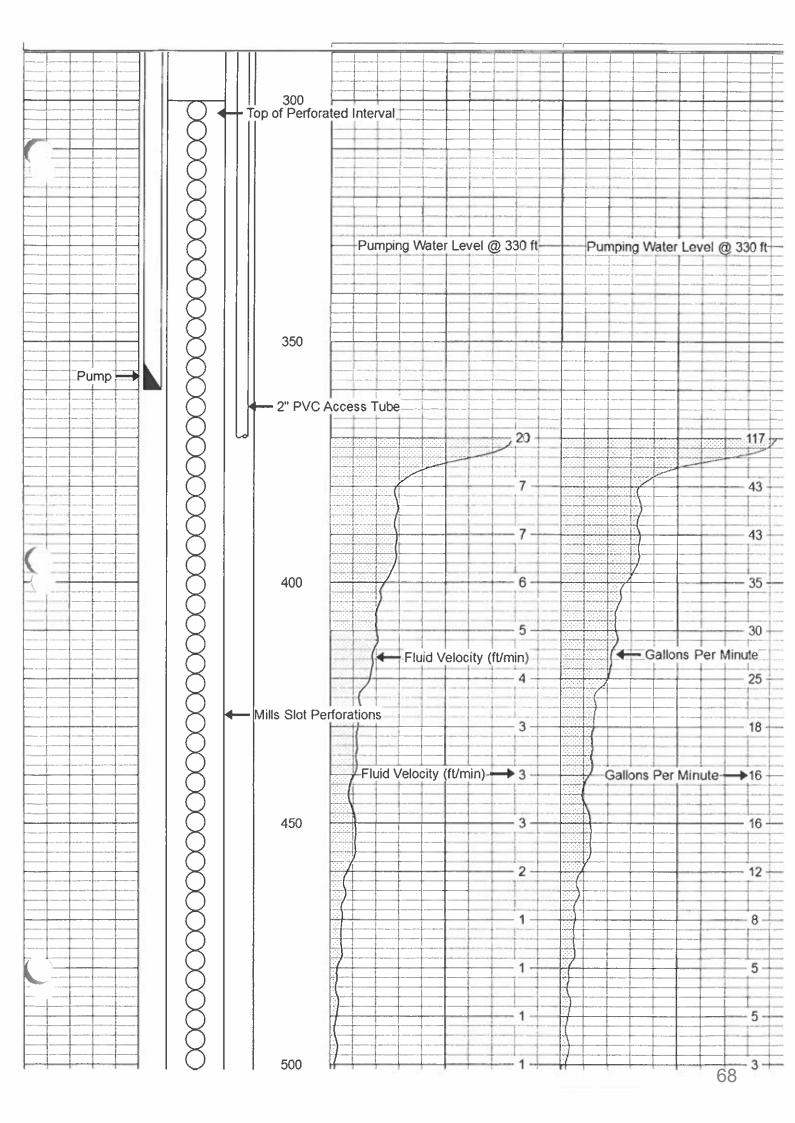
P.O. Box 401428 • Hesperia, CA 92340 • 760-244-3481 • ELAP Number 2691

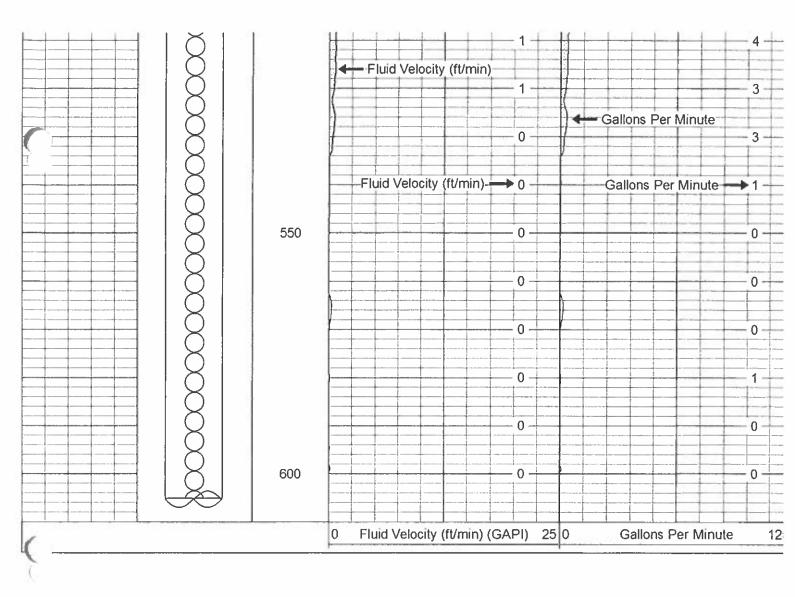
258-1-11	Chain of Custody													(4) Special (W) Well (D) Distribution	all analyses can be processed as rush PDDA Synthese (Service Register Andrease)	C ERNESD ARICH / APACED	xc GM	Comments:		Page of
Ç	# of/ / Containers Bacti / GP / Other	1.5	5PE IN- Tota	Ho.	<u>-oli</u>	Ot Form	NI P							Sample Types: (1) Routine (2) Repeat (3) Replacement	All turn around times are expressed as working days / Not all analyses can be processed as rush	SD 4-19-15/2:40 PM 4/1	1531	Rec'd Date / Time:	mperature: D. P.C	[] UPS [] Client [] Other
	Geo-Monitor, InC. 17152 Darwin Ave Hesperia. CA 92340 (760) 244-3481	Creates Phelan Pinion Hills CSD	Address 4176 Warbler Rd. Phelan, CA 92371	Phone No. (760) 868-1212 Fax No. (760) 868-2323	No. 3610120	Project Name: Georges Well Sean Wright	Secon IN - P	1050 Lofan	15-19-15 12:00 12 60 12 610 800 -T					Preservatives: (1) Na 2 S 2 O 3 (3) Cold	(2) H ₂ SO ₄ /HNO3 (4) (2) R2(HTATIS(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Sean Wright /PPHC		Rec'd at Lab By:	Rec'd on Ice Yes No Rec'd Intact Yes No	Shipped Via [] Fed X [] Golden State

Access Tube	Liner	Production Casing	Surface Casing	AS BILT Record			Type Per	Perfora	Representative	Operator	Location	Truck Number	Time Log Started	Time Well Ready	Plimp Rate (GPM)	Pumping Water Level	Time Pumping Prior to Log	Pump Depth Driller	Top Logged Depth	Bottom Logged Depth	Total Depth Logger	Total Depth Driller	Run Number	Date	Drilling Measured From	Log Measured From	Permanent Datum	Sec. 26	WEST OF SHEEP CREEK RD. SOUTH OF EL MIRAGE RD.	Location:	Q	0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.4	001175 C			1	VICTORYWE
Z 1.D.	-	14"		Size		-	Perf Size From	creen Rec	E. 81	LAP	CA	ONE	10:1	10:0			o Log		370'		600'	605	ONE	4-4-17	om N/A	G.L.	G.L.	Twp. 6	AGE RD.		County SAN	City ADEI	ell Name PPH		Company TRI C			7	ELL SURVEYS
PVC	2	Steel		Type		605'	To Type		E. BRADBURY	LAPORTE			10:15 AM	10:00 AM	195 CDM		2 HOURS			i	: - -			17		0 ft above j	Elevation	6N Rge. 7W			SAN BERNARDINO	ADELANTO	Well Name PPHCSD CENTER WELL		TRI COUNTY PUMP		DYNAN	FLOWM	
c		0		From			Perf Size From	Perforation/Screen R		-												-				above perm. datum	N/A	8	DY NAMIC FLOWMETER WATER SAMPLES	Other Services:	State CA						YNAMIC CONDITION	FLOWMETER ANALYSIS	FLUID VELOCITY / GPM LOG
370	ا 	605'		То			m To	lecord																			Elevation		LOWMETER APLES	es:							TION	LYSIS	PM LOG
Vic	tor Vell	y W Sui	/eli rve	Su	doesr	not (gua	ara	nte	e 1	he	ac	cui	асу	of	any	int	erp	ret	live	ор	All	on. da	. Vi ta a	ictor	y V co	Vell ndi	Sur	veysis	not lia	ble or	resp	onsi	ble	for an	y dan	nages	or ex	s, Victory penses I conditio
										(0			1					2														
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Dataset Pathname Presentation Format spin_analysis Dataset Creation Charted by

Analysis/merge1 Thu Apr 06 12:34:57 2017 Depth in Feet scaled 1:240





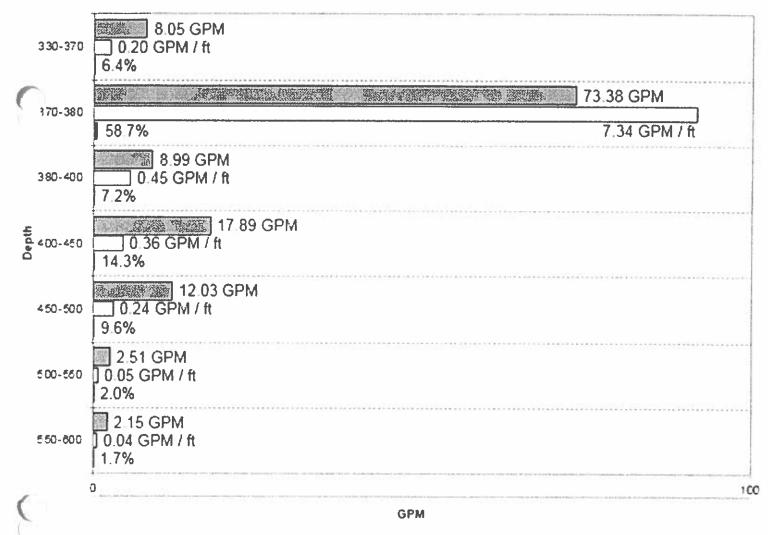
FLUVVIIIE	IEK	ANAL	C1C1
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(



TOTAL GPM	125.00	GPM		V
DEPTH	INTERVAL	PERCENT OF	GPM	INTERVAL
NTERVALS	GPM	TOTAL GPM	PER FOOT	LENGTH
330-370	8.05	6.4%	0.20	40
370-380	73.38	58.7%	7.34	10
380-400 🖉	8.99	7.2%	0.45	20
400-450 。	17.89	14.3%	0.36	50
450-500 ₀[12.03	9.6%	0.24	50
500-550 。	2.51	2.0%	0.05	50
550-600 🜼	2.15	1.7%	0.04	50

FIVUUUUUU FIVIIIO CHAR



Chain of Custody		Landard Mills	Tu	<u>rn</u>	Arc		d T		8								(W) Well (D) Distribution	he processed as rush	Frint Name / Company	VACK JOURSE	KERDAN 19M1	hu w		Dare of
Chain Chain	1073	Tot: Niti Chi IN J	-	use	lonitor, Inc 0 9 N					x No. Pres. Type	-	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					Sample Types: (1) Routine (2) Repeat (3) Replacement (4) Special (1)	sed as working days / Not all an	Date / 1 ime by (Sign)	3-1-17/12.25 P.n W 200	3-1-17 1335 1 4.5 X.	s/ci/12 15.40 1 K	Date / Time:	Kecetpi 1 emperature: 1.0.1 C
Geo-Monítor, Inc. 17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481	Phelan Pinion Hills CSD	4176 Warbler Rd.	Phelan, CA 92371	(760) 868-1212 Fax No. (760) 868-2323 Des	Cell No. (760) 885-7255	3610120 [] C	op water samples	Scan Wright	IN HOUSE ONLY	Sample Identification Matrix	Center Well static @ 329 Ft		Georges Well static (@ 201) Cold	(4)	1 By (Sign) Print Name / Company	Scan Wright /PPHCSD	7 Jack Steyes Per	12 Court Rost / 600		No Rec'd Intact Yes No
Geo-MC 17152 Darwin A	Client	SS	12	Phone No.	Contact	System No.	Project Name: Top water samples	Sampled By	Comments	Data Tima	r	1	3/1/2017 1/1/5 Ao		*		Preservatives: (1) Na	(2) H ₂	Relinquished By (Sign)	Con l	AN SU	Phan and	Rec'd at Lab By:	Rec'd on Ice Yes V



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371				Routine Dairy Center Sean Wright	Well			Work Order Received: Reported:	: 16F0970 06/09/16 15:31 06/23/16
Dairy Center Well		16F0970-0	1 (Water)		Sample Da	te: 06/09/16	10:30 5	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Temperature (Field)	Field	26.1	°C			06/09/16	06/09/16	1625025	
General Chemical Analyses									
Nitrate as N (NO3-N)	EPA 300.0	1.2	mg/L	0.40	10	06/09/16	06/09/16	1624383	
Nitrate + Nitrite (as N)	EPA 300.0	1.2	mg/L	0.40	10	06/09/16	06/09/16	1624383	
Metals									
Chromium (+6)	EPA 218.6	8,7	ug/L	1.0	10	06/09/16	06/10/16	1624288	
Volatile Organic Analyses / 1,2,3-TCP									
1,2,3-Trichloropropane	SRL 524M	ND	ug/L	0.0050		06/10/16	06/14/16	1624424	
ND Analyte NOT DETECTED at or ab	ove the reporting li	mit							

Bet Slaufy

Bob Glaubig Laboratory Director

Page 1 of 1

·	Chain of Custody			<u>Т</u> и		<u>Aro</u>		d T		9													(W) Well (D) Distribution	be processed as rush	Print Name / Company	JAUK Strachfell PPMLSD	HESODER 16 MI	Fund		Dana of	rage of
•		s Requested	Ch Nil T	rate ron rate	e + N iun as (-1,2	itrii n 6 (N) 2,3	te (as N	×)			×X-	X	×	×		X	×	X	×	X	X X X X X MI	Replacement (4) Special	ing days / Not all analyses can	Received By (Sign)	111 200	C X X -		Comments:		
166.0970	# of [] .) D Containere Bandi / eff. ()	o Analys	Ho	tal C	colif	fonitor, Inc 10 ni	Pla	te (nt	Matrix No. Pres. Type		2 4-W X X	3 3 4-W X X	4 4-W X X	X X X X		7 4-W X X	8 4-W X X	9 . 4 W X X	10 A 4-W X X	W 511 1 3 4-W X X	Sample Types: (1) Routine (2) Repeat (3)	All turn around times are expressed as working days / Not all analyses can	Date / Time	1-9-16 /12:15Pn	50 8-9-16 1:30	x 65 6 15/31 1		eipt Temperatur	UPS Client Other
•	Geo-Monitor, Inc. 17152 Darwin Ave Hesperia. CA 92340 (760) 244-3481	Phelan Pinion Hills CSD	4176 Warhler Rd	Phelan, CA 92371	IX No. (760) 868-2323	Cell No. (760) 885-7255	3610120	Dairy Center Well	Sean Wright	ALL SAMPLES IN HOUSE ONLY	Sample Identification M	Dairy Center Well @ 6 Hours	Dairy Center Well @ 8 Hours	Dairy Center Well @ 10 Hours	Dairy Center Well @ 12 Hours	Dairy Center Well (a) 14 Hours	Dairy Center Well @ 16 Hours	Dairy Center Well @ 18 Hours	Dairy Center Well @ 20 Hours	Dairy Center Well @ 22 Hours	Dairy Center Well @ 24 Hours	Dairy Center Well	(3) Cold	103 (4)	Print Name / Compan	A Sean Wright /PPHCSD	11 Xa Int Space For PHIC	Kin L		-	Fed X Golden State
(Geo-Mor	Citors Phe	(H	Address	Phone No. (760		System No.	ne:	Sampled By	Comments	Date Time	4	6/8/2016 5: 1.04		6/8/2016 6 25 24	6/8/2016	6/9/2016 1 : 35 # 4	4-1	6/9/2016 5.30 44	6/9/2016	6/9/2016 9:35 4.4	6/9/2016 15:32 70	Droconstitue: (1) Na. S. O.	(1) H 202 (1) H 202 (2)	Relinanished By (Sign)	6	JACK (12)	1 all the	Rec'd of Lab By:	Red d on Ice Yes	Shipped Via



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: R ub Project D t Manager S	airy Soil Te	sting		Rec	rk Order 16C1580 eived 03/17/16 13:5 rorted: 03/22/16
Near Center Well 4 Ft Depth		16C1580-0)1 (Water)		Sample Date:	03/17/16 10:15	Samp	oler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/17/16	03/20/16	1613053	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/17/16	03/20/16	1613053	
Near Center Well 8 Ft Depth		16C1580-0	02 (Water)		Sample Date:	03/17/16 10:20	Samp	eler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/17/16	03/21/16	1613053	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/17/16	03/21/16	1613053	
Near Center Well 12 Ft Depth		16C1580-0	03 (Water)		Sample Date:	03/17/16 10:30	Samj	oler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/17/16	03/21/16	1613053	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/17/16	03/21/16	1613053	
Near Center Well 13 Ft Depth		16C1580-0	04 (Water)		Sample Date:	03/17/16 10:45	Samj	oler: Sean Wright
Алајуtе	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/17/16	03/21/16	1613053	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/17/16	03/21/16	1613053	
Bottom of Perc Pond @ 4 Ft Depth		16C1580-	05 (Water)		Sample Date:	03/17/16 11 15	Samj	oler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10g	1,8	03/18/16	03/20/16	1613002	
Bottom of Perc Pond @ 8 Ft Depth		16C1580-	06 (Water)		Sample Date:	03/17/16 11:20	Sam	pler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	

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Phelan Pinion Hills CSD 4176 Warbler Rd			Project: R ub Project: D	airy Soil Te	sting		Rec	rk Order: 16C1580 eived: 03/17/1613:5 ported: 03/22/16
Phelan CA, 92371		Project	t Manager: S	ean wright				
Bottom of Perc Pond @ 12 Ft Depth		16C1580-0)7 (Water)		Sample Date:	03/17/16 11:25	Samp	oler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Bottom of Perc Pond @ 13 Ft Depth		16C1580-	08 (Water)		Sample Date:	03/17/16 11:30	Samp	oler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Cattle Enclosure 4 Ft Depth		16C1580-	09 (Water)		Sample Date:	03/17/16 11:50	Samj	oler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Cattle Enclosure 8 Ft Depth		16C1580-	10 (Water)		Sample Date:	03/17/16 11:55	Samj	pler: Sean Wright
Analyte	Method	Result	Units	Rep Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Cattle Enclosure 12 Ft Depth		16C1580-	11 (Water)		Sample Date:	03/17/16 12:00	Sam	pler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	18	03/18/16	03/20/16	1613002	
Cattle Enclosure 13 Ft Depth		16C1580-	12 (Water)		Sample Date:	03/17/16 12:05	Sam	pler: Sean Wright
Analyte	Method	Result	Units	Rep. Limit	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses								
Total Coliform (15 Tube)	SM 9221	ND	MPN/10 g	8.1	03/18/16	03/20/16	1613002	
Fecal Coliform (15 Tube)	SM 9221	ND	MPN/10 g	1.8	03/18/16	03/20/16	1613002	

ND Analyte NOT DETECTED at or above the reporting limit

Bet Slaufy

Bob Glaubig

Laboratory Director

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Page 2 of 2

	Chain of Custody																						sciai (W) Weli (U) Dismburon vess can be nincessed as nish	ign) Print Name / Company	ilestar	-HYAW CLSB.	2 57 4	1	Page of	
	40 (760) 244-3481	Client Job No. Analysis Requested	-10	Destination Laboratory		C				Matrix No. Pres. Type	1 Dcoth Soil 1 1 9 1 1 1	8' octh Soil 2 . 14 X X	Derth Soil	3 Deoth Sail 4 4 XX 1	V OCTAN	5 \$' nuth Soil b 14 × ×	50.1	01 1104 50:1 8 J Y X X	Depth 50:1 9 4	Droth 50:110	50:1 11 14 X	Depth 50:11 12 4 14 XX 1	Sample Types: (1) Routine (2) Repeat (3) Replacement (4) Special (11) Well (12) UISTIDUDG All firm annihil finnes are exmessed as undefined days / Mint all analyses can be princessed as nish	Print Name / Company Date / Tune Received By (Sign)	CALT 3. 16-16/2 P.M 1/	the work	Rec'd Date / Time:	No Receipt Temperature: 04.2. C	[] Golden State [] UPS [] Client]] Other	
R. Junim Hills CSD	Geo-Monitor, Inc. 12752 Darwin Ave Hesperia, CA 92340	Chemical P. P. H. C.S. Data and an	Address	Phone No.	Contact Cell No.	System No.	Project Name Dail tos	S M S	Comments Dairy Proplet	Date Time Sample Identification	3-1626 10:15An NEAR CENTER WELL	Near center well	o:to an Near Lenter Lell	10:45km Near Lenter well	Bottom	5-16-16 11:20 An Buttom of pric Pondo	Dottom OF RICL Pord	F Rece Pand	Caclosur	cattle 1	3-164 12PM Lattle chelosure Q 12' Depts	S	Preservatives: (1) Na ₂ S ₂ O ₃ (3) Cold (2) H.SO. (HWO3 (4)	183		L'Internation	Rec'll at Lab By:	Rec'd on tes Yes No V Rec'd Intact Yes	Shipped Via	77

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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: R Sub Project: T et Manager: E	itle 22	a			Work Orde Received: Reported:	<pre>c: 15H1202 08/13/15 18:10 08/28/15</pre>
Center Well- Dairy		15111202-	-01 (Water)		Sample Dat	te: 08/13/15	14:45	Sampler:	Scan Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	l Batch	Qualifier
Field Analyses									
Temperature (Field)	Field	20.0	°С			08/13/15	08/13/15	1533573	\$
General Physical Analyses									
Apparent Color	SM 2120B	ND	Color Units	3.0	15	08/14/15	08/14/15	153362	
Odor Threshold	EPA 140.1M	1	TON	1	.3	08 14 15	08/14/15		
Turbidity	EPA 180-1	1.5	NTU	0,1	5	08/14/15	08/14/15		
	1113 100-1	1 ay ⁷	NTO .	0,1	J	00 14 15	06.14.15	133 462	
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	53	mg-L	5.0		08/17/15	08/17/15	1533573	l.
Bicarbonate (HCO3)	SM 2320 B	64	ımg I	5.0		08/17/15	08/17/15	1533573	6
Carbonate (CO3)	SM 2320B	ND	mg-1	5.0		08 17 15	08/17/15	1533573	j.
Chloride (Cl)	EPA 300.0	7.8	mgʻi.	1.0	500	08/19/15	08/19/15	1534339)
Langelier Index at Source Tmp	SM 203	-0.17				08/13/15	08/13/15	1533573	i i i
Langelier Index at 60 C	SM 203	0.44				08/13/15	08/13/15	1533573	i.
Aggressive Index	SM 203	11.66				08/13/15	08/13/15	1533573	li -
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	08/14/15	08/14/15	1533620	E.
Specific Conductance (E.C.)	SM 2510B	620	unhos/em	2.0	1600	08/17/15	08/17/15	1533573	£
Fluoride (F)	EPA 300.0	0.34	mg/l.	0.10	2	08/14/15	08/14/15	1533619	I
Hydroxide (OII)	SM 2320B	ND	mg/L	5.0		08/17/15	08/17/15	1533573	k.
MBAS (LAS Mole, Wt 340.0)	SM 5540C	ND	ing/L	0,10	0.5	08/14/15	08/14/15	1533608	:
Nitrate (NO3)	EPA 300.0	4.8	mg/L	2.0	45	08/14/15	08/14/15	1533619)
Nitrate + Nitrite (as N)	EPA 300.0	1100	ug L	400	10000	08/14/15	08/14/15	1533619	1
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	08/14/15	08/14/15	1533619	1
Perchlorate (CIO4)	EPA 314.0	ND	ug/L	4,0	6	08/17/15	08/17/15	1534021	
pH (Lab)	SM 4500HB	7.9	pH Units			08.14/15	08 14 15	1533573	
Sulfate (SO4)	EPA 300.0	230	mig. L	0.50	500	08 14 15	08/14/15	1533619	•
Total Filterable Residue/TDS	SM 2540C	400	mg L	5.0	1000	08/14/15	08.17/15	1533614	
<u>Metals</u>									
Aluminum (Al)	EPA 200.7	ND	ug I.	50	200	08/24/15	08 24 15	1535022	
Antimony (Sb)	SM3113-B	ND	սցե	6.0	6	08/20/15	08/20/15	1534360	
Arsenic (As)	SM3113-B	3.0	ug/L	2.0	10	08 19 15	08 19 15	1534240	
Barium (Ba)	EPA 200.7	ND	ug L	100	1000	08/24/15	08/24/15	1535022	
Beryllium (Bc)	EPA 200.7	ND	ug/L	1.0	4	08/21/15	08 21/15		
Boron (B)	EPA 200.7	ND	ugʻl.	100		08/24/15	08 24 15	1535022	
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	08/21/15	08/21/15	1534542	
Calcium (Ca)	EPA 200.7	40	mg/4.	1.0		08/17/15	08/17/15	1534016	
Chromium (+6)	EPA 218.6	1.0	ugL	1.0	10	08/13/15	08/17/15	1533539	
Chromium (Total Cr)	EPA 200.7	ND	ugʻl.	10	50	08/21/15	08/21/15	1534542	
Copper (Cu)	EPA 200.7	ND	ug l.	50	1000	08/24/15	08/24/15	1535022	
Iron (Fe)	EPA 200.7	420	ug/L	100	300	08/24/15	08/24/15	1535022	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		08/17/15	08/17/15	1534024	

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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			b Project:	Routine Title 22 Ernesto Araiz	a 			Work Orde Received: Reported:	r: 15H1202 08/13/15 18:1 08/28/15
Center Well- Dairy		15111202-0	l (Water)		Sampte Dat	e: 08/13/15	14:45	Sampler:	Scan Wright
Analyte	Method	Result	Units	Rep. Linnit	MCI.	Prepared	Analyze	d Batch	Qualifier
Metals									
Magnesium (Mg)	EPA 200.7	4.2	mg/L	1.0		08/17/15	08/17/15	1534016	•
Manganese (Mn)	EPA 200.7	ND	ug 1.	20	50	08-24/15	08/24/15	1535023	2
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	08/18/15	08/18/15	1534048	1
Nickel (Ni)	EPA 200,7	ND	ug/L	10	100	08/21/15	08/21/15	1534542	1
Potassium (K)	EPA 200.7	3.2	mg/L	1.0		08/17/15	08/17/15	1534016	•
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	08/19/15	08/19/15	1534212	:
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	08/21/15	08/21/15	1534542	:
Sodium (Na)	EPA 200.7	82	mg L	1.0		08/17/15	08/17/15	1534016	i
Thallium (Tl)	EPA 200.9	ND	ug.1.	1.0	2	08/17/15	08/17/15	1534017	1
Vanadium (V)	EPA 200.9	18	ug-1,	3.0		08/17/15	08/17/15	1534008	:
Zine (Zn)	EPA 200.7	ND	ug L	50	5000	08/24/15	08/24/15	1535022	!
mion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	120	mg.L.			08/17/15	08/17/15	CALC	ř.
Total Anions	Calculated	6.15	meq.1.			08/17/15	08/19/15	CALC	
Total Cations	Calculated	5.99	mcq/l.			08/17/15	08/17/15	CALC	
% difference	Calculated	2.5				08/17/15	08/19/15		
tadiochemistry Analyses									
Gross Alpha	EPA 900.0	7.1	pCill.	3.0	15	08/17/15	08/21/15	1533561	GA-01
Gross Alpha Counting Error	EPA 900.0	2.2	pCil			08/17/15	08/21/15		
Gross Alpha Min Det Activity	EPA 900.0	£.8	pCiff.			08/17/15	08/21/15		
olatile Organic Analyses									
Vinyl Chloride (VC)	EPA 524.2	ND	սց/Լ	0.50	0.5	08/19/15	08/19/15	1534221	2
Trichlorofluoromethane (FREON 11)	EPA 524.2	ND	ug/L	5.0	150	08 19/15	08 19 15		
1.1-Dichloroethylene (1,1-DCE)	EPA 524.2	ND	սցՈւ	0.50	6	08/19/15	08 19 15		
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	ug/L	10	1200	08/19/15	08/19.15		
Dichloromethane (Methylene Chloride)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15		
trans-1,2-Dichloroethylene (t-1,2-DCE)	EPA 524.2	ND	աց/Լ	0.50	10	08/19/15	08/19/15		
Methyl tert-Butyl Ether	EPA 524.2	ND	ug/1.	3.0	13	08/19/15	08/19/15		
I.I-Dichloroethane (I,I-DCA)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
cis-1,2-Dichloroethylene (c-1,2-DCF)	EPA 524.2	ND	ug/L	0.50	6	08/19/15	08/19/15		
Chloroform (Trichloromethane)	EPA 524.2	2.2	ug/L	1.0		08/19/15	08/19/15	1534227	
Carbon Tetrachloride	EPA 524.2	ND	ug/L	0.50	0.5	08/19/15	08/19/15	1534227	
1.1.1-Trichloroethane (1.1.1-TCA)	EPA 524.2	ND	ug/L	0,50	200	08/19/15	08/19/15	1534227	
Benzene	EPA 524.2	ND	ug/L	0.50	1	08/19/15	08/19/15	1534227	
1.2-Dichloroethane (1.2-DCA)	EPA 524.2	ND	ug L	0.50	0.5	08/19/15	08/19/15	1534227	
Trichloroethylene (TCE)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
1,2-Dichloropropane	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
Bromodichloromethane	EPA 524.2	ND	ug/L	1,0		08/19/15	08/19/15	1534227	
Toluene	EPA 524.2	ND	ug/L	0.50	150	08/19/15	08/19/15	1534227	

Page 2 of 4



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: Project: Manager:					Work Orde Received: Reported:	r: 15H1202 08/13/15 18:10 08/28/15
Center Well- Dairy		15111202-0	(Water)		Sample Da	ate: 08/13/15	14:45	Sampler:	Scan Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyze	d Batch	Qualifier
Volatile Organic Analyses									
Tetrachloroethylene (PCE)	EPA 524.2	ND	ug/L	0,50	5	08/19/15	08/19 15	153422	7
1.1.2-Trichloroethane (1.1.2-TCA)	EPA 524.2	ND	ug4,	0.50	5	08/19/15	08/19/15	1534223	7
Dibromochloromethane	EPA 524.2	ND	ug/1.	1.0		08/19/15	08/19/15	1534223	1
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	ug 1.	0,50	70	08/19/15	08 19 15	1534221	7
Ethyl Benzene	EPA 524.2	ND	ug/L	0.50	300	08.19/15	08 19 15	1534223	7
m.p-Xylene	EPA 524.2	NÐ	ag t.	1.0		08/19/15	08/19/15	153422	7
cis-1,3-Dichloropropene	EPA 524.2	ND	ug/1.	0.50		08/19/15	08/19.15	1534221	7
o-Xylene	EPA 524.2	ND	ugʻL	0.50		08/19/15	08/19/15	1534221	,
trans-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50		08 19/15	08/19/15	1534223	7
Styrene	EPA 524.2	ND	ug/1.	0.50	100	08/19/15	08/19/15	153422	7
Bromoform	EPA 524.2	ND	ug.1.	1.0		08/19/15	08/19/15	153422	7
1.1.2.2-Tetrachloroethane	EPA 524.2	ND	սց:Ն	0,50		08/19/15	08/19/15	153422	7
1.4-Dichlorobenzene (p-DCB)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534223	7
1.2-Dichlorobenzene (o-DCB)	EPA 524.2	ND	ug/L	0.50	600	08/19/15	08/19/15		
1.2,4-Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15		
Total 1.3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.5	08/19/15	08/19/15		
Total Trihalomethanes (TTHM)	EPA 524.2	2.2	ug/t,	1.0	80	08/19/15	08/19/15	1534221	7
Total Xylenes (m.p & o)	EPA 524.2	ND	ug/L	0.50	1750	08/19/15	08/19/15	1534223	,
Surrogate: Bromofluorobenzene	EPM 524.2	89 "	e.			08/19/15	08/19/15		
Surrogate: 1,2-Dichlorobenzene-d4	EP4 524.2	80 "				08/19/15	08/19/15		
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	0.020	0.05	08/18/15	08/18/15	1534040	
Dibromochloropropane (DBCP)	EPA 504.1	ND	սջ՛ե	0,010	0.2	08/18/15	08 18/15		
Semi-Volatile Organic Analyses								e <u>ve</u> r v	
Endrin	EPA 508.1	NO		0.10	2	08/14/15	08 23 15	1622610	、 、
		ND	ug/l.	0.10	2				
Lindane (gamma-BHC)	EPA 508.1	ND	ug/t,	0,20	0.2	08/14/15	08 23 15		
Methoxychlor	EPA 508.1 EPA 508.1	ND	ug/l.	10	30	08/14/15	08/23/15		
Toxaphene	EPA 508.1	ND ND	ug/1.	1.0	3	08/14/15	08/23/15		
Chlordane			ugʻl.	0,10	0.1	08/14/15	08/23/15		
Heptachlor	EPA 508.1	ND	ug/L	0.010	0.01	08/14/15	08/23/15		
Heptachlor Epoxide	EPA 508.1	ND	ugʻl.	0.010	0.01	08/14/15			
Hexachlorobenzene	EPA 508.1	ND	ug/L	0.50	1	08/14/15	08/23/15		
Hexachlorocyclopentadiene Polychlorinated Biphenyls (PCBs)	EPA 508.1 EPA 508.1	ND ND	ug't. noti	1.0	50 0.5	08/14/15 08/14/15	08/23/15		
Surrogate: Dibutylchlorendate	EPA 508.1	ND 72 %	ug/I.	0,50	0.2	08/14/15	08/23/15		
	EPA 505.7 EPA 515.4		1.01	10	200		08/23/15		
Dalapon		ND	ugʻl.	10		08/21/15			
2,4,5-TP (SILVEX)	EPA 515.4	ND	ug/L	1.0	50	08/21/15	08/26/15		
Bentazon (BASAGRAN) Pieloram	EPA 515.4 EPA 515.4	ND ND	ug/L ug/L	2.0 1.0	18 500	08/21/15 08/21/15	08/26/15		
e iciocăm	EPA 313.4	NU	P147/8		3481				

Page 3 of 4



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: b Project: Manager:		a				15H1202 08/13/15 18:10 08/28/15
Center Well- Dairy		15H1202-0	l (Water)		Sample Da	ate: 08/13/15	14:45 S	ampler: Se	can Wright
Analyte	Method	Result	Units	Rep. Limit	MC1.	Prepared	Analyzed	Batch	Qualifier
Semi-Volatile Organic Analyses									
Pentachlorophenol (PCP)	EPA 515.4	ND	ug/L	0.20	ł.	08/21/15	08/26/15	1534539	
Dinoseb (DNBP)	EPA 515.4	NÐ	ug/L	2.0	7	08/21/15	08/26/15	1534539	
Surrogate: 2.4-Dichlorophem lacetic acid	EPA 515.4	105 °~				08/21/15	08/26/15	1534539	
Alachlor (ALANEX)	EPA 525.2	ND	ug/L	1.0	2	08/17/15	08/18/15	1534015	
Atrazine (AATREX)	EPA 525.2	ND	ug/L	0.50		08/17/15	08/18/15	1534015	
Benzo(a)pyrene	EPA 525-2	ND	ug/L	0.10	0.2	08/17/15	08/18/15	1534015	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	ugʻl.	3.0	4	08/17/15	08/18/15	1534015	
Di(2-cthyllicxyl) adipate	EPA 525.2	ND	ug L	5.0	400	08/17/15	08/18/15	1534015	
Molinate (ORDRAM)	EPA 525.2	ND	ug/L	2.0	20	08/17/15	08/18/15	1534015	
Simazine (PRINCEP)	EPA 525.2	ND	ng L	1.0	4	08/17/15	08/18/15	1534015	
Thiobencarb (BOLERO)	EPA 525.2	ND	ug'l.	1.0	70	08/17/15	08/18/15	1534015	
Surrogate 1.3-dimethyl-2-nitrobenzene	EP4 525.2	106 *.,				08/17/15	08/18/15	1534015	
Surregate Pervlene-dl2	EP4 525-2	105 ""				08/17/15	08/18/15	1534015	
Surrogate: Triphenylphosphate	EP4 525-2	109 ***				08/17/15	08/18/15	1534015	
Oxamyl (VYDATE)	EPA 531-1	ND	ug/L	20	50	08/24/15	08/25/15	1535037	
Carbofuran (FURADAN)	EPA 531.1	ND	ugʻl.	5.0	18	08/24/15	08/25/15	1535037	
Glyphosate	EPA 547	ND	ug∕L	25	700	08/21/15	08/22/15	1534560	
Endothall	EPA 548.1	ND	ug/L	45	100	08/17/15	08/19/15	1534006	

GA-01

This sample has a gross alpha + 0.84 counting error result greater than 5 pCiff... This high result will often trigger additional analyses such are uranium or radium. Please contact us should you need further analysis.

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time-

ND Analyte NOT DETECTED at or above the reporting limit

Bob Slaufy

Bob Glaubig Laboratory Director

Page 4 of 4



LA Testing

520 Mission Street South Pasadena, CA 91030 Phone/Fax: (323) 254-9960 / (323) 254-9982 http://www.LATesting.com / pasadenalab@latesting.com LA Testing Order ID: 321517313 Customer ID: 32CLIN51 Customer PO: Project ID:

Attn:	Bob Glaubig	Phone:	(909) 825-7693	
1	Clinical Laboratory of San Bernardino	Fax:		
	PO BOX 329	Collected:	08/13/2015	
	San Bernardino, CA 92402	Received:	08/14/2015	
		Analyzed:	08/25/2015	

Proj: 15H1202

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

						A	SBESTOS		
Sample ID Cilent / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered	Effective Filter Area	Area Analyzed	Asbestos Types	Fibers Detected	Analylical Sensitivity	Concentration	Confidence Limits
		(ml)	(mm²)	(៣៣²)			MFL	. (million fibers per	liter)
CENTER WELL - DAIRY	8/14/2015	30	1288	0.2244	None Detected	ND	0.19	<0.19	0.00 - 0.71
321517313-0001	05:00 PM								

Analyst(s) Sherrie Ahmad (1)	1 de
Any questions please contact Jerry Drapala,	Jerry Drapala Ph.D, Laboratory Manager or Other Approved Signatory
Initial report from: 08/28/2015 01:56:57	
Sample collection and containers provided by the client, acceptable bottle blank level is defined as 50 report may not be reproduced, except in full, without written permission by LA Testing Samples received	

5

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

Test Report TEM100.2-7 31 1 Printed. 8/28/2015 01 56AM

Page 1 of 1

OrderID: 321517313

321517313

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15H1202

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino	LA Testing
21881 Barton Road	520 Mission Street
Grand Terrace, CA 92313	South Pasadena, CA 91030
Phone: 909.825.7693	Phone :(323) 254-9960
Fax: 909.825.7696 Project Manager: Bob Glaubig	Fax: (323) 254-9982
Please email results to Project Manager: Bob Glaubig [v] glaubig@clinical-lab.com [] ybarra@clinical-l	
California EDT transfer those samples with PS Transfer File requested; log in with Element II	S codes provided [Yes Y No D only [] Yes [V No
Turn Around Time [/ 10 Days [] 5 Days Subcontract Comments:	[] Other Days
	Comments
Analysis	Comments
Sample ID: Center Well- Dairy / 15111202-01	Sampled: 08/13/15 14:45 PS Code: Water WTX ID: UCMR ID:
Asbestos EPA 100.2	
ontainers Supplied	
Quart Plastic (J)	
	Tamp 63'C
	ichty a
	8:15 Wenny Mapano 8/14/15/ 9:15
Bi My O 8/14/15 Released By Date / Time	8:15 Wenny Chappano 8/14/15/9:15 Received By Date / Time U20 CPCCDCDCDCTO (200) 8/14/15 11.2000

5H14030

Certificate of Analysis

WECK LABORATORIES, INC

Analytical Laboratory Service - Since 1964

 Report Date:
 09/08/15 13:41

 Received Date:
 08/14/15 10:40

 Turnaround Time:
 Normal

 Phones:
 (909) 825-7693

 Fax:
 (909) 825-7696

P.O. #:

Attn: Bob Glaubig

Project: 15H1202

Client: Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313

Dear Bob Glaubig :

Enclosed are the results of analyses for samples received 8/14/2015 with the Chain of Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5H14030-01 Sampled by: Client	Sample I Sampled			I- Dairy / 15	H1202-0	1			Ma	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
2,3,7,8-TCDD (Dioxin)	ND		5.00	pg/l	1	EPA 1613B	8/14/15	8/17/15 20:33	W5H0794	
Diqual	ND		4.0	ug/l	1	EPA 549.2	8/17/15	8/31/15 16:50	W5H0870	

Page 1 of 3



Apalyrikal Laboratory Srinsici, - Store 3961

Certificate of Analysis

Quality Control Section

Diquat and Paraquat by EPA 549.2 - Quality Control

Batch W5H0870 - EPA 549.2

Blank (W5H0870-BLK1)					Prepared: 08/	17/15 An	alyzed: 08/31	l/15 16:20	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat		ND		ug/l					
LCS (W5H0870-BS1)					Prepared: 08/	17/15 An	alyzed: 08/31	l/15 16:24	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat		14.3		ug/l	20.0	71	48-130		
Matrix Spike (W5H0870-MS1)	5	ource: 5H1400	6-01		Prepared: 08/	17/15 An	alyzed: 08/31	l/15 16:29	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPÐ	RPD
Diquat	ND	17.5		ug/I	20.0	88	46-122		
Matrix Spike Dup (W5H0870-MSD1)	5	ource: 5H1400	6-01		Prepared: 08/	17/15 An	alyzed: 08/31	l/15 16:33	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	16.5		ug/l	20.0	82	46-122	6	30

Semivolatile Organics - Low Level by Tandem GC/MS/MS - Quality Control

Batch W5H0794 - EPA 1613B

Blank (W5H0794-BLK1)				I	Prepared: 08	/14/15 An	alyzed: 08/17	7/15 18:09	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		ND		pg/i					
LCS (W5H0794-851)				I	Prepared: 08	/14/15 An	alyzed: 08/17	7/15 18:27	
Analyle	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		6.16		pg/l	5.00	123	50-148		
LCS Dup (W5H0794-BSD1)				1	Prepared: 08	/14/15 An	alyzed: 08/1	7/15 18:45	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		5.48		pg/l	5.00	110	50-148	12	20

Page 2 of 3

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Analytical Laboratory Service - Since 1964

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

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ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

5H14030

2.15 点 (2.11) (2.

Page 3 of 3

SUBCONTRACT ORDER

5H14030

Clinical Laboratory of San Bernardino 1511202

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Bob Glaubig	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745 Phone :(626) 336-2139 Fax: (626) 336-2634
Please email results to Project Manager: Bob Gl [v] glaubig@clinical-lab.com [] ybarra@clin	
California EDT transfer those samples w Transfer File requested; log in with Elem	
Turn Around Time [\10 Days [] 5 Da Subcontract Comments:	ays [] Other Days
Analysis	Comments
Sample ID: Center Well- Dairy / 15H1202-01	Sampled: 08/13/15 14:45 PS Code: Water WTX ID: UCMR ID:
549 Diquat 1613 Dioxins	
ontainers Supplied:	Amber Glass Na Thio EPA 1613 (W) 1 L Amber Glass Na Thio EPA 1613 (X)
ontainers Supplied:	Amber Glass Na Thio EPA 1613 (W) 1 L Amber Glass Na Thio EPA 1613 (X)
ontainers Supplied: L Amber Plastic Na Thio EPA 549 (V) 1 L A	Amber Glass Na Thio EPA 1613 (W) 1 L Amber Glass Na Thio EPA 1613 (X)
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ontainers Supplied: L Amber Plastic Na Thio EPA 549 (V) 1 L A	Amber Glass Na Thio EPA 1613 (W) 1 L Amber Glass Na Thio EPA 1613 (X)
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Ontainers Supplied: L Amber Plastic Na Thio EPA 549 (V) 1 L A	3.1
Ontainers Supplied: L Amber Plastic Na Thio EPA 549 (V) 1 L A	3.1

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True victorial Lab of Sand Bernardino, Inc. Lamber of Sand Bernardino, Inc. Lamber of Sand Bernardino, Inc. 21831 Barton Road Garial Terrace Ca 9231 90 B5750 J Lamber of Sand Terrace Ca 9231 90 B5750 J Lamber of Sand Terrace Ca 9231 90 B5750 J Lamber of Sand Terrace Ca 9231 90 B5750 J 21831 Barton Road Garial Terrace Ca 9231 90 B5750 J Lamber of Sand Terrace Ca 9231 90 B5750 J Lamber of Sand Terrace Ca 9231 90 B5750 J Lamber of Sand Terrace Ca 9231 90 B5750 J Lamber of Sand Terrace Ca 9231 90 B5750 J 2005 Distribution Laboration Laborati Laboration Laboration Laboration Laboration La					÷	of			/ 16	3					
Multin Kinn Kinn Comments Willin Kinn Wills (55) Destination taboratory Multin Kinn Wills (55) District (55) Multin Wills (55)	ical Lab of San E	3ernar d	lino, li	nc.	Cont	tainers		i / GF	ĨŶ.	ther	X	5		MO	2 K
Comments No. HC1 0 % 960 HO No. HC1 0 % 960 HO No. HC1 0 % 960 HO No. HC1 0 % 960 HO No. HC1 0 % 960 HO Dioxin X - FEA 1613 ambers Dioxin X - FEA 4613 amber Comments Sample for the fo	11 Barton Road Grand Terra			5-7693	/ 516-A	N 8th	St.	Lom	poc	S	3543		05 7.	37-730	0
Comments In H (1 0 0.4) 650 +to Nt to \$0°H, 524 Z - EPA 1613 ambers Status (1 - 10000) yth to \$0°H, 524 X - 2.5EA 1613 ambers 0.0 0.000000 0.0 0.000000 0.0 0.000000 0.0 0.000000 0.0 0.000000 0.0 0.000000 0.0 0.000000000000 0.0 0.000000000000000000000000000000 <td>PLETAN PLAION H115</td> <td></td> <td>Destinati Minical Grand</td> <td>on Labora Terrace / EL</td> <td>atory LAP 1088</td> <td></td> <td></td> <td></td> <td>Ch</td> <td>nalys</td> <td>Sis Re</td> <td>dues</td> <td>Di Di</td> <td>N E</td> <td></td>	PLETAN PLAION H115		Destinati Minical Grand	on Labora Terrace / EL	atory LAP 1088				Ch	nalys	Sis Re	dues	Di Di	N E	
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i bcon wr. at 1 8 8415.0 & 13.16/2.558 multiple Concert Wr. Control 10 Million wr. f he lind a ENLISE Curves curves & 13/15/1538 A. L wr. f he lind a ENLISE curves curves & 13/15/1538 A. L wr. f he lind a ENLISE ENLISE With curves on poc Lab Receipt Temp.: °C Samples (10) Samples (10) Fed Ex I Golden State Overnight I JUPS I JUSPS I Jother On Wet ice Edon Blu ice Lindact I Just curves More Longed By:	auished Bv (Sian) Print N				ie	Rec	seived	Вy	sign)			Pri	int Na	me / Co	mpany
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			[] Custod		Samples	/000	Checki	ed By:			Wo	rk Ori		gged By	mn 18.6



Phelan Pinion Hills CSD			Project: I					Work Ord	
4176 Warbler Rd		S	ib Project: 1	Dairy- Center	Well			Received:	
Phelan CA. 92371		Project	Manager: I	Ernesto Araiz	a			Reported:	08/25/15
Center Well- 1hr @ 200 gpm		15111200-0)1 (Water)		Sample Date	: 08/13/15	9:00	Sampler:	Scan Wright
Analyte	Method	Result	Units	Rep. Limit	MCI.	Prepared	Analyzed	Batch	Qualifier
Metals									
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	08/13/15	08/17/15	153353	9
Center Well- 2hr @ 300 gpm		15H1200-0)2 (Water)		Sample Date	: 08/13/15	10:00	Sampler:	Scan Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Chromium (±6)	EPA 218.6	ND	սց է	1.0	10	08.13.15	08/17/15	153353	9
Center Well- 3hr (a 400 gpm		15111200-0	3 (Water)		Sample Date	: 08/13/15	11.00 \$	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCI	Prepared	Analyzed	Batch	Qualifier
Metals									
Chromium (+6)	EPA 218.6	ND	սցե	1.0	10	08/13/15	08/17/15	153353	9
Center Well- 4hr @ 650 gpm		15111200-0)4 (Water)		Sample Date	: 08/13/15	12:00	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL.	Prepared	Analy?ed	Batch	Qualifier
Metals									
Chromium (+6)	EPA 218.6	1.0	ug/L	1.0	10	08/13/15	08/17/15	153353	9

Bol Slaufy

Bob Glaubig Laboratory Director

Page 1 of 1

C7071H2	Chain of Custody	•	pe		7						<i>me</i>											(4) Special (W) Well (D) Distribution	IV Dute / Time Received By (Sion) Print Name / Comnany		VEantric IGMI	T ~ Y	commenter 18 0 c		Puge of
	1 14	Bacti / GP / Other	Analysis Requested	01	13		5.	Pe 6	cia	l T,	n H	100	sc.	×	X		~					speat (3) Replacement	Received	2	The factor is a second se			<u>0</u> , c	er
C	# of	ners	Client Job No.			Destination Laboratory	[x] Geo-Monitor, Inc	[] Other:	•				Matrix No. Pres. Type			1 3 3 4-0	m 3 5 5 A					Sample Types: (1) Routine (2) Repeat	Dute / Time	4-13-	8-13-12 1	8 315	Rec'd Date / Time:	Receipt Temperature:	UPS Client Other
	r, Inc.	17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481	n Hills CSD	r Rd.	2371	Fax No. (760) 868-2323	Cell No. (760) 885-7255 [3610120	Dairy- Center Well	Sean Wright	1 6- In House only		Sample Identification M	1 Lr @ 200 9 PM		-0	Center well & Lr (2) 650 98M						Print Name / Company	Sean Wright /PPHCSD	ERNEST ARATA/APHISI)	Melinda FUrnus CLSB			Fed X Golden State
	Geo-Monitor, Inc.	win Ave Hesper	Phelan Pinion Hills CSD	4176 Warbler Rd.	Phelan, CA 92371	(760) 868-1212	Sean Wright		Dairy- Ce		CL roning			n winter well - 1 hr @			_					(1) Nd 2 2 2 0 3 (3) COID (2) H 2 SO 4/HNO3 (4)	Relinquished By (Sign))	with	ann		No	
C	Geo-	17152 Dar	Client	Address		Phone No.	Contact	System No.	Project Name:	Sampled By	Comments		Date Time	8-13-15 3AM	\$-13-15 10 Mm	8-13-15 II An	2-13-15 20			 	Deconcretinon (4)	Freservauves. (1) Na 25203 (2) H, SO 4/HN	Relinquish	L	Emble	Mellula F	Rec'd at Lab By:	Rec'd on Ice Yes	Shipped Via

15 H 1652	Chain of Custody																			(4) Special (W) Well (D) Distribution	ili analyses can be processed as rush CBN (Storn) Starts & Company		L & LESUEDUR FMI	-	Comments:		Page of
Ç	# of// Containers Bacti / GP / Other		And thent you No - The Analysis Requested	To	A To	a sestimation satisfication	[x] Geo-Monitor, Inc	[] Other: 0 4	Ka	0	200 L	A) ⁽								 Sample Types: (1) Routine (2) Repeat (3) Replacement	All turn around times are expressed as working days / Not all analyses can be processed as rush and the second times of the second second second by Room (Storn) (Storn) (Storn) (Storn) (Storn) (Storn) (Storn	1 4-13-15/ 2:55 Pm 12-24	823 51-5/28			ceipt Temperature:	UPS Client] Other
	Geo-Monitor, Inc.	1/15/ URINI AVE RESPENS, CA 32340 (700) 244-340	Cherry Street Phelan Pinion Hills CSD	4176 Warbler Rd.	Phelan, CA 92371	(760) 868-1212 Fax No. (760) 868-2323	Sean Wright Cell No. (760) 885-7255	3610120	: Dairy- Center Well	Sean Wright	Special in house - Only	Ø	and a string to see Supple domined on a second							(1) NB ₂ S ₂ O ₃ (3) Cold	(2) H ₂ SO ₄ /MUO3 (4) multic 2 million (10) (10)		FR			Ke	Fed X Golden State
	Geo-	1/102 Uar		Address		Phone No.	Contact	System No.	Project Name:	Sampled By	Comments			6-13-15 2.45 60						Preservatives: (1)	(2)		Kaintolla)	Rec'd at Lab By:	Rec'd on Ice Yes	Shipped Vla

Geo-Monitor, Inc.



Client:		Phelan Pinion Hills CSD 4176 Warbler Rd. Phelan, CA 92371			Phone: Fax:	Sean Wrigf (760) 868-1 (760) 868-2 3610120	212	
Project:		Dairy- Center Well						
Sampler: Date Samp Date/Time Date/Time Date Repor	Setup: Read:	Sean Wright August 13, 2015 August 13, 2015 1630 August 14, 2015 1030 August 17, 2015						
			Results					
						SM 9	223	SM 9215B
Laboratory	Sample	Sample		Cl Res	Sample	Total	<i>E</i> .	HPC
	Time	Location		(mg/L)	Туре	Coliform	coli	cfu / 1 mL
B328	14:45	Center Well			4-W	Present (1)	Present (1)

(1) Notified Sean Wright 8-14-15 @ 8:00

Sample Types 1 = routine 2 = repeat 3 = replacement 4 = special W = well D = distribution

Director: _____

P.O. Box 401428 • Hesperia, CA 92340 • 760-244-3481 • ELAP Number 2691

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C			ζ	۳	C
Geo-N	Geo-Monitor, Inc.	Geo-Monitor, Inc.	# of Containers	Bacti / GP / Other	Chain of Custody
Cliant	Phelan Pinion Hills CSD	Hills CSD	Cliant Ion No	Anatycis Ramactad	
Address	4176 Warbler Rd.	Rd.			
	Phelan, CA 92371	371	×	- N > Ta	T
Phone No.	(760) 868-1212	Fax No. (760) 868-2323	Destination Laboratory		
Contact	Sean Wright	Cell No. (760) 885-7255	[x] Geo-Monitor, Inc	ļłc (
System No.		3610120	[] Other:	005	rou
Project Name:	Dairy- Center Well	ter Well		Ýa	nd
Sampled By		Sean Wright		(Tir
Comments	Special i	in house - Only		201 (P/	
		6		 (A)	
Date Time	Samp	Sample Identification	Matrix No. Pres. TJ	Type	
6-13-15 2:45 60	Lenter	1120			
		-			
		- - - -			
Preservatives: (1) Na ₂ S ₂ O ₃	2 S 2 O 3 (3) Cold	old	Sample Types: (1) Routine	(2) Repeat (3) Replacement (4) Special	(W) Well (D) Distribution
(2) H ₂	(2) H 2 SO 4/HNO3 (4)		All turn around times are exp	turn around times are expressed as working days / Not all analyses can be processed as rush	can be processed as rush
Relinquished By (Sign)	By (Sign)	Print Name / Company	ty Date / Time	me Received By (Sign)	Print Name / Company
¢	5.)	Sean Wright /PPHCSD	6-13-15/	2:55 Pm Breed & See	
Buert Oller	ù.	ERNESTO ARAZA APHCED	4660 P-13-15	1538 WEV9 V	C LEScobar MMI
	0	~		\sim /	
Rec'd at Lab By:			Rec'd Date / Time:	Comments:	
Rec'd on Ice Yes V	No	Rec'd Intact Yes / No	Receipt Temperature:	· 16.9°	
Shipped Via		Fed X Golden State] UPS [Client	Other	Page of
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		~	12	T	urn	A	rou	nd	Tir	ne				1													
(Chain of Custody										 									(W) Weir (D) Distribution an be processed as rush	Print Name / Company		KENMIN IGMI	+			Page of
lien	Chail	~ ピ	01	1.3-		_		_	_				X		X					(3) Replacement (4) Special working days / Not all analyses c	Received By (Sign)	Pm Bre	1		Comments:	D' c	
(# of				Destination Laboratory	[x] Geo-Monitor, Inc	[] Other:				Matrix No. Pres. Type (υ-h		0-4	4 S-0			**		Admine Types. (1) Kouune (2) Kepeat All turn around times are expressed as		D 6-13-15./ 2:55	13-15 1	e	Rec'd Date / Time:	Receipt Temperature:] UPS] Client] Other
	Geo-Monitor, Inc. 17152 Darwin Ave Hesperia. CA 92340 (760) 244-3481	Phelan Pinion Hills CSD	er Rd.	92371	12 Fax No. (760) 868-2323	ht Cell No. (760) 885-7255	3610120	Dairy- Center Well	Sean Wright	n 6- In House only	Sample Identification	1 Lr @ 200 9Pm	300	\$ 400 G	1.4 hr (3) 650 98m				(2) Cold		Print Name / Company	Sean Wright /PPHC\$D	ERUESTO ARATA/	/		Rec'd Intact Yes No	[] Fed X Golden State
	Geo-Monitor, Inc. 17152 Darwin Ave Hesperia, CA 92340	Client Phelan Pinic	Address 4176 Warbler Rd.	Phelan, CA 92371	Phone No. (760) 868-1212	Contact Sean Wright	System No.	Project Name: Dairy- C	Sampled By	Comments LL Conium		8-13-15 3AM Leafer well-	8-13-15 10 An center vell - 2 hr Q	\$ 13-15 11 AN center veil - 260	-13-15 12 PA CENTER WEILLY AC Q				Dracentatives: (4) Na S (7)	(2) H ₂ SO 4/HNO3 (Relinquished By (Sign)	6.0	Europenie.	~~<	Rec'd at Lab By:	Rec'd on Ice Yes 🖌 No	Shipped Via

Turn Around Time (TAT) Comments			S - Sludge O - Other (5) Five Day Rush (2) Two Day Rush Print Name / Company	
No HCI added to ERAto 504, 524 Dioxin			Sludge O - Other Five Day Rush (2) Two Day Print Name / Company	Work Order Logged By: Clinical Lab Receipt Temp.: Page
Dioxin	×	2 - EPA 1613 ambers	e O - ay Rus Nam	Logg
Solution Diquat Glyphosate / Endothall	×	1 - EPA 549 amber	Sludge Five Day Print N	Work Order
Glyphosate / Endothall Carbamate Pesticide	×	1 - EPA 547 amber / 1 - EPA 548 amber		ork C
S	×	1 - EPA 531 amber	Runoff Ten Day	
DEHP/DEHA/PAH/Triazine Chlor. Pesticide / Herbicide	×	2 - EPA 525 ambers		
Chlor. Pesticide / Herbicide	×	1 - EPA 508 amber / 1 - EPA 515 amber	Stormwater Run TAT: (10) Ten 3y (Sign)	
DEHP/DEHA/PAH/Triazine Chlor. Pesticide / Herbicide Volatile Organic / EDB, DBCP	× ×	2 - EPA 524 vials / 2 - EPA 504 vials 1 - 1/2 gallon plastic / 1 - quart plastic		38 K A V O J USPS [] Other Samples / COC Checked By:
Gross Alpha / Asbestos	×	1 - pínt plastic / 1 - gen phys glass	WR Ved	ecke
Inorganic Chemical / Gen Phy	×	1 - 1/2 gallon plastic		[] Other COC Chee
Gen Min / Corrosivity / Cr+6 Gen Min / Corrosivity / Cr+6 Total Containers ChiorAC	19			
# 0 ChiorAC	-		- Was	Samples
2 7 210 2 7	-		r WW - Wastew I D-Distribution Time	1538 San
), Inc.), Inc.) 10.) 10.)	3			
Inc. 825-76 825-76 825-76 ation La ation La ation La of Prese of Prese	7		W - Water It 4-Special Date / T &-13 16/	(1) On Trac
And Chioractic Content of Content	7		ment ment	
Sample Type	ŝ		ace Wat teplacem IV MLSA	J UPS
Bample Type Bample Type Bample Type Matrix			Surfac 3-Rep Dany P P H	
Container ID			round Water SW - Surf 1-Routine 2-Repeat 3-R Print Name / Compan てっ ンパーパイ タ	ab Receipt Temp.:CC [] Golden State Overnight ce [] On Blu Ice _[] Intact
ce Cr	۲ د		/ater S ne 2-R ame / (over
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cell Lab of San Ber Barton Road Grand Terrace 6 Rtclan Plainen Hills LS HIFLE WACHLET A3. HIFLE WACHLET A3. HIFLE WACHLET A3. HICL CA, 92371 CE 200 WATALAS. F60-468 Flan a120 Title 22 Title 22 Sean Weight Sample Identification			inkin ampl	Lompoc Lab Lompoc Lab [] Fed Ex [[] On Wet Ice ents:
Clinical Lab of San Bernardino, 21881 Barton Road Grand Terrace CA 92313 909 21881 Barton Road Grand Terrace CA 92313 909 21881 Barton Road Grand Terrace CA 92313 909 21881 Barton Road Grand Terrace CA 92313 909 differt RL A P. 115 L50 Destin differt RL A P. 115 L50 Destin dress: 417 L A 92371 [1] clinical Ca Puel A LA 92371 [1] clinical Lon anter Stan World A Stan 120 filent Contact: 560 568 311 filent Contact: 560 50 10 filent Contact 50 10 filent Contact 50 10 filent Contact 50	2:45Pn		ttrix: DW - Drinking Wate e for Bacteria Samples / San Relinquished By (Sign)	
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Clinica 21881 Ba 21881 Ba 21881 Ba 21881 Ba Address: 4 304 L Address: 4 2000 Client Contact: Phone No.: 3 Phone No.: 3 Project: Project: Sampled By: Comments:	6-13-45		Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement Relinquished By (Sign) Print Name / Company	Cerr LLP (Cerr LLP) (Lab Use Only) Lo Shipped Via: [] Condition: [] Receipt Comments
	977) 			



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: F b Project: E Manager: E	Dairy Wells	iza			Received:	er: 13A1324 01/16/13 17:2. 01/30/13
Dairy Center Well (NIS)		13A1324	-01 (Water)	Sample E	Date: 01/16/13	9:40	Sampler:	Brian Gerke
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyze	Batch	Qualifier
Field Analyses									
Cl Res (Field)	Field	0	mg/L			01/16/13	01/16/13	130329	7
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	54	mg/L	5.0		01/18/13	01/18/13	130338	I
Bicarbonate (HCO3)	SM 2320 B	65	mg/L	5.0		01/18/13	01/18/13	130338	I
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13	130338	I
Chloride (Cl)	EPA 300.0	8.3	mg/L	1.0	500	01/17/13	01/17/13	1303344	1
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	01/21/13	01/21/13		
Specific Conductance (E.C.)	SM 2510B	610	umhos/cm		1600	01/18/13	01/18/13		
Fluoride (F)	EPA 300.0	0.33	mg/L	0.10	2	01/17/13	01/17/13	1303344	1
Hydroxide (OII)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13	130338	I
MBAS (LAS Mole, Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.5	01/17/13	01/17/13	130318	5
Nitrate (NO3)	EPA 300.0	4.6	mg/L	2.0	45	01/17/13	01/17/13	1303344	1
Nitrate + Nitrite (as N)	EPA 300.0	1000	ug/L	400	10000	01/17/13	01/17/13	1303344	1
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	01/17/13	01/17/13	1303344	1
Perchlorate (CIO4)	EPA 314.0	ND	ug/L	4,0	6	01/22/13	01/22/13	1304090)
pH (Lab)	SM 4500HB	8.3	pH Units			01/17/13	01/17/13	130338	I
Sulfate (SO4)	EPA 300.0	220	mg/L	0.50	500	01/17/13	01/17/13	1303344	1
Total Filterable Residue/TDS	SM 2540C	390	mg/L	5.0	1000	01/18/13	01/21/13	1303414	1
Metais									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	01/24/13	01/24/13	1304242	2
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	01/18/13	01/18/13	1303402	2
Arsenic (As)	SM3113-B	3.3	ug/L	2.0	10	01/23/13	01/23/13	1304109)
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	01/24/13	01/24/13	1304242	2
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	01/23/13	01/23/13	130413	5
Boron (B)	EPA 200.7	ND	ug/L	100		01/24/13	01/24/13	1304242	2
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	01/23/13	01/23/13	1304135	5
Calcium (Ca)	EPA 200.7	41	mg/L	1.0		01/22/13	01/22/13	1304032	2
Chromium (Total Cr)	EPA 200.7	ND	ug/L	10	50	01/23/13	01/23/13	130413	5
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	01/24/13	01/24/13		
Iron (Fe)	EPA 200.7	670	ug/L	100	300	01/24/13	01/24/13	1304242	2
Lead (Pb)	SM3113-B	ND	ug/L	5.0		01/24/13	01/24/13	1304214	1
Magnesium (Mg)	EPA 200.7	4.3	mg/L	1.0		01/22/13	01/22/13	130403	2
Manganese (Mn)	LPA 200.7	ND	ug/L	20	50	01/24/13	01/24/13	1304242	2
Mercury (Hg)	LPA 245.1	ND	ug/L	1.0	2	01/16/13	01/18/13		
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	01/23/13	01/23/13		
Potassium (K)	EPA 200.7	3.3	mg/L	1.0		01/22/13	01/22/13		
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	01/18/13	01/18/13		
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	01/23/13	01/23/13		
Sodium (Na)	EPA 200.7	82	mg/L	1.0		01/22/13	01/22/13	1304032	2
Thallium (TI)	EPA 200.9	ND	ug/L	0.1	2	01/18/13	01/18/13	1303392	2

Page 1 of 14



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371				Routine Dairy Wells Ernesto Ara					er: 13A1324 01/16/13 17:25 01/30/13
Dairy Center Well (NIS)		13A1324	-01 (Water	·)	Sample [Date: 01/16/13	9:40	Sampler: I	Brian Gerke
Analyte	Method	Result	Units	Rep Limit	MCL	Prepared	Analyzed	i Batch	Qualifier
Metals									
Vanadium (V)	EPA 200.9	18	ug/L	3.0		01/18/13	01/18/13	1303390	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	01/24/13	01/24/13	1304242	
Anion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	120	mg/L			01/22/13	01/22/13	[CALC]	
Total Anions	Calculated	5.97	meq/L			01/22/13	01/18/13	[CALC]	
Total Cations	Calculated	6.06	mcq/L			01/22/13	01/22/13	[CALC]	
% difference	Calculated	1.5				01/22/13	01/18/13	(CALC)	

Page 2 of 14

Phelan Pinon Hills CSD

Center Well

Date	Time	GPM	PWL	Drawdown	Remarks
8/13/2015	8:00:00 AM	200	300'	0	Start 200 GPM
8/13/2015	8:15:00 AM	200	331'	31'	
8/13/2015	8:30:00 AM	200	331'	31'	
8/13/2015	8:45:00 AM	200	331'	31'	
8/13/2015	9:00:00 AM	200	331'	31'	Increase flow to 300 GPM
8/13/2015	9:15:00 AM	300	354'	54'	
8/13/2015	9:30:00 AM	300	354'	54'	
8/13/2015	9:45:00 AM	300	354'	54'	
8/13/2015	10:00:00 AM	300	354'	54'	Increase flow to 400 GPM
8/13/2015	10:15:00 AM	400	377'	77'	
8/13/2015	10:30:00 AM	400	377'	77'	
8/13/2015	10:45:00 AM	400	377'	77'	•2
8/13/2015	11:00:00 AM	400	377'	77'	Increase flow to 650 GPM
8/13/2015	11:15:00 AM	650	408'	108'	
8/13/2015	11:30:00 AM	650	408'	108'	
8/13/2015	11:45:00 AM	650	409'	109'	
8/13/2015	12:00:00 PM	650	409'	109'	
8/13/2015	12:15:00 PM	650	412'	112'	
8/13/2015	12:30:00 PM	650	419'	119'	
8/13/2015	12:45:00 PM	650	419'	119'	·
8/13/2015	1:00:00 PM	650	421'	121'	
8/13/2015	1:15:00 AM	650	421'	121'	
8/13/2015	1:30:00 AM	650	423'	123'	
8/13/2015	1:45:00 AM	650	423'	123'	
8/13/2015	2:00:00 PM	650	428'	128'	
8/13/2015	2:15:00 PM	650	428'	128'	
8/13/2015	2:30:00 PM	650	428'	128'	
8/13/2015	2:45:00 PM	650	433'	133'	
8/13/2015	3:00:00 PM	650	433'	133'	
8/13/2015	3:15:00 PM	500	435'	135'	
8/13/2015	3:30:00 PM	500	435'	135'	
8/13/2015	3:45:00 PM	500	435'	135'	
8/13/2015	4:00:00 PM	500	430'	130'	
8/13/2015	4:15:00 PM	500	430'	130'	
8/13/2015	4:30:00 PM	500	430'	130'	
8/13/2015	5:00:00 PM	500	430'	130'	
8/13/2015	5:15:00 PM	500	430'	130'	
8/13/2015	5:30:00 PM	500	430'	130'	
8/13/2015	5:45:00 PM	500	430'	130'	
8/13/2015	6:00:00 PM	500	430'	130'	Shut down
8/14/2015	8:00:00 AM	500	-		Startup & surge well
8/14/2015	8:15:00 AM	500	341'	41'	
8/14/2015	8:17:00 AM	500	353'	53'	

				55'	
8/14/2015	8:19:00 AM	500	355'	73'	
8/14/2015	8:21:00 AM	500	373'		
8/14/2015	8:23:00 AM	500	373'	73'	
8/14/2015	8:28:00 AM	500	373'	73'	
8/14/2015	8:33:00 AM	500	377'	77'	
8/14/2015	8:38:00 AM	500	382'	82'	
8/14/2015	8:43:00 AM	500	382'	82'	
8/14/2015	8:58:00 AM	500	384'	84'	
8/14/2015	9:13:00 AM	500	390'	90'	
8/14/2015	9:28:00 AM	500	396'	96'	
8/14/2015	9:43:00 AM	500	397'	97'	
8/14/2015	9:58:00 AM	500	400'	100'	· · · · · · · · · · · · · · · · · · ·
8/14/2015	10:13:00 AM	500	405'	105'	
8/14/2015	10:28:00 AM	500	412'	112'	
8/14/2015	10:43:00 AM	500	412'	112'	
8/14/2015	10:58:00 AM	500	412'	112'	
8/14/2015	11:15:00 AM	500	416'	116'	
8/14/2015	11:30:00 AM	500	419'	119'	
8/14/2015	11:45:00 AM	500	421'	121'	
8/14/2015	12:00:00 PM	500	421'	121'	
8/14/2015	12:15:00 PM	500	422'	122'	
8/14/2015	12:30:00 PM	500	423'	123'	-
8/14/2015	1:00:00 PM	500	428'	128'	
8/14/2015	1:30:00 AM	500	430'	130'	
8/14/2015	2:00:00 PM	500	431'	131'	
8/14/2015	2:30:00 PM	500	431'	131'	
8/14/2015	3:00:00 PM	500	437'	137'	
8/14/2015	3:30:00 PM	500	438'	138'	
8/14/2015	4:00:00 PM	500	440'	138'	
8/14/2015	4:15:00 PM	500	440'	138'	
8/14/2015	4:30:00 PM	500	440'	138'	ļ
8/14/2015	5:00:00 PM	500	438'	138'	
8/14/2015	5:15:00 PM	500	438'	138'	
8/14/2015	5:30:00 PM	500	438'	138'	
8/14/2015	5:45:00 PM	500	438'	138'	
8/14/2015	6:00:00 PM	500	438'	138'	
8/14/2015	6:15:00 PM	500	438'	138'	
8/14/2015	6:30:00 PM	500	438'	138'	
8/14/2015	6:45:00 PM	500	438'	138'	
8/14/2015	7:00:00 PM	500	438'	138'	

(

8-13-15 Center Well CLength OF Punt 493 7:31 An static level @ 300 Ft 7:47 An Power VP motor 7:49 An well @ 400 gfr Contra la sandi 7:49 to \$:00 Am stabilizing to 200 gpm @ 33+FH.bgs Will Dr. Down Forcer for wed 6:00 Am to 6:15 PUNRing @ 200 gpm @ 331 695 Sand O 6:15 to 8:30 Pumping @ 200 gpm @ 331 bg 51 sand O \$130 ro 8:45 Bunking @ 200 gln @ 331 bg5 Sand o sando Punping @ 200 gen @ 231 bgs 9AM chromium & sample raken 9AM well ramped VP to 300 gpm @ 354 bgs sando 8:45+9 9:00 to 9:15 Pumping @ 300 gpm @ 354695 sand 0 9:15 to 9:30 BURKing @ 300 gen @ 354 bgs condo 9:30 For 4:45 PURPING @ 300 gpm @ 354 695 Sound B 9:45 to 10 Punking @ 300 gpm @ 354 bgs sande 10 AM chronium le sample taken 10 AM Well ramped or to \$400 gpm \$372 sand old water has light brown that 10:07 Tinting of brown diminished well @ 400 gpm @ 377 bgs Sand 0.01 10:15 well @ 400 gBm @ 377 bgs 2000 0.01 10:30 @ 377 bis sant 0,01 ven @ 400 gim 10:41 weil @ 400 ggm @ 377 bgs 5an 10.01 1 1 ULCONIUM & Sangle 11:15 well @ 650 gen @ 405 bg5 sand 0-Latter Beardstels - 8405 mesquite better on rocking Chair Nater only discolored & start-up For

Target 650 Date 8-13-15

Center Vell Static=300

Read = 28995

0				and an an end of the second
2P1		punging	Dra wdown	Specific Capacit
125	11 Am	396	96	6.77
150	11:02	400	160	6.5
,50	11:04	401	/ •)	6.43
150	11:06	403	103	6.31
50	11:08	405	105	6.19
50	11;10	405	105	6.19
50	11:15	405	105	6.19
,50	11.20	405	105	6.19
650	11:30	405	105	6.19
650	11:45		109	5.96
650	12.00	409	109	5,96
6 2	12-15	412	112	5.80
650	12:30	419	119	5,46
650		421	121	5.32
650	1:30	423	123	5.28
650	1:00	438	128	5.07
650	2:30	• • • • • • • • • • • • • • • • • • •	126	5. o 7
1,50	3:00	Y33	133	9. 88
500	3:10	128 Meters 30564	128	5.07
2			137	4,74
5.0	3:30 7:00	435 Mitil= 30746	135	3,70
500			130	3.79
500	y:30		130	3.85
500	5:60		130	3.85
(°		430 Bottles en) reat= 31246	130	3,65
500	6:00	(130 0000 en) read= 31246		
1		2713 cole		
				101

Contra Well 4-13-15 PH Temp Lond TO: 565 25.5°C 8.43 11:10 25.3° L 568 4.40 12:10 555 25.9°C 8.41 1:10 25.9°C 570 8.40 2:10 26.1°C 6.46 604/ 308 3:10 564/ 299 25.8°C 6.39 4:10 551/299 25.2°c 5:10 4.43

	[]		*			
			-	Lanter.		
	8-14	-15	2	Static =	308	
			= 31248	fump icu	:[= 493	
21 M		Pumpin	٩	drawdo.	19	Specific Cap
500	815	341	/	33	na a lina iyo afa a shaar aa aa biya taaraa aa aa ah ya fa	15.15
500	817	353	- 11	45		11.51
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500	838	377.		69	مىسىنىيە يەر مۇرىقى مەرمەر	7.25
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500	8:58	364		76		6.57
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	9:43	397	n nate er e	89		5.62
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	0:13		A	97	Sight	2×y 5.15 1
500	16:28		Slight first	104	Moderate	
500	10:43			104		4,81
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500	11:30			11		4.50
500	11:015			113		4.42
500	12:00			13		9.92
500	12:15	1-56-513-51		1(4		4.39
(30		423		115	and a second	L), 35
200		428		120	moderat	
500		430		722		4.10
500	TANK & R. R. LEWIS CO., Name of Concession, Name of Street, or other Difference on the Owner, or other Diffe	431		19 3	6 Q	4.07
						103

8-14-15 Centes Well

		Centra W	cll	
T.Me	PA	Temp		cond/ TOS
6:25	4.59	25.60		560/274
6:40	8.45	a4.7°	<u>C</u>	614/ 305
6:55	8.44	24.6	°C	617/315
9:30	4.34	ay, Fo		650/ 309
70:30	4.43	25.50	C	625/ 305
11:30	8,46	25.60	۷	621/30/
12:30	6.41	25. 40	Έ.	630/307
1:30	6.39	25.70	۷	626/298
3:15	8.47	25.9%	C	487/22:
4:15	E.42	24.6°	C	505/243
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July 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<u>_</u>						1
2 NEW LIFE CHURCH OF THE NAZARENE 9:00am - 2:00pm @ PHELAN COMMUNITY CENTER NEW LIFE CHURCH OF THE NAZARENE 9:00am - 2:00pm @ PHELAN SENIOR CENTER SHEPARDS CALL BAPTIST CHURCH 9:00am - 1:00pm @ PINON HILLS COMMUNITY CENTER	3 PINON HILLS SENIORS CRIBBAGE & CRAFTS 10:00am - 3:00pm @ PINON HILLS COMMUNITY CENTER FARMER'S MARKET- CLOSED 2:00pm - 6:00pm @ PHELAN COMMUNITY CENTER FARMER'S MARKET- CLOSED 2:00pm - 6:00pm @ PHELAN SENIOR CENTER	 Independence Day PPHCSD OFFICE CLOSED- HOLIDAY FITNESS IN THE PARK- CANCELLED 9:00am - 10:00am @ PHELAN PARK DANCE IN THE PARK- CANCELLED 10:00am - 11:00am @ PHELAN PARK PHELAN SENIOR CLUB DAY 10:30am - 4:00pm @ PHELAN SENIOR CENTER 	5	 KIDS ARCHERY -W CORNER OF CAYUCOS & SHEEP CREEK 9:00am - 11:00am @ WEST CORNER OF CAYUCOS & SHEEP CREEK RD PAINTING IN THE PARK AGES 5-12 9:00am - 11:00am @ PHELAN PARK PINON HILLS SENIOR CLUB DAY 10:30am - 3:00pm @ PINON HILLS COMMUNITY CENTER PAINTING IN THE PARK AGES 13 & UP 11:00am - 1:00pm @ PHELAN PARK PHELAN PINON HILLS CERT 6:00pm - 8:00pm @ PHELAN COMMUNITY CENTER 	7 SENIOR LINE DANCE CLASS 8:30am - 11:00am P PHELAN COMMUNITY CENTER PHELAN SENIOR CENTER • GAME DAY 10:00am - 4:300m @ PHELAN SENIOR CENTER • SHEPARDS CALL BAPTIST CHURCH 4:00pm - 7:00pm • PINOA HILLS COMMUNITY CENTER • MOVIES IN THE PARK- DUSK 8:00pm - 10:00pm @ PHELAN PARK	CLASSES- MULCH / WATER WISELY 10:00a - 11:00am @ PHELAN
9 NEW LIFE CHURCH OF THE NAZARENE 9:00am - 2:00pm @ PHELAN COMMUNITY CENTER NEW LIFE CHURCH OF THE NAZARENE 9:00am - 2:00pm @ PHELAN SENIOR CENTER SHEPARDS CALL BAPTIST CHURCH 9:00am - 1:00pm @ PHOON HILLS COMMUNITY CENTER	10 FARMER'S MARKET 2:00pm - 6:00pm PHELAN COMMUNITY CENTER FARMER'S MARKET 2:00pm - 6:00pm PHELAN SENIOR CENTER	11 • FITNESS IN THE PARK 9:00am - 10:00am • PHELAN PARK • DANCE IN THE PARK 10:00am - 11:00am • PHELAN SENIOR CLUB DAY 10:30am - 4:00pm • PHELAN SENIOR CENTER	12 CANCELLED - REGULAR BOARD MEETING 5:00pm - 8:00pm 9 PHELAN COMMUNITY CENTER	13 • KIDS ARCHERY -W CORNER OF CAYUCOS & SHEEP CREEK 9:00am - 11:00am @ WEST CORNER OF CAYUCOS & SHEEP CREEK RD • PAINTING IN THE PARK AGES 5:12 9:00am - 11:00am @ PHELAN PARK • PAINTING IN THE PARK AGES 13 & UP 11:00am - 1:00pm @ PHELAN PARK • PINON HILLS SENTOR CLUB DAY 11:00am - 3:00pm @ PINON HILLS COMMUNITY CENTER	14 • SENIOR LINE DANCE CLASS 8:30am - 11:00am 0 PHELAN COMMUNITY CENTER • PHELAN SENIOR CENTER • GAME DAY 10:00am - 4:30pm @ PHELAN SENIOR CENTER • SHEPARDS CALL BAPTIST CHURCH 4:00pm - 7:00pm • PINON HILLS COMMUNITY CENTER • MOVIES IN THE PARK- DUSK 8:00pm @ PHELAN PARK	15 Alcoholics Anonymous Ok Anniversary Event 11:000 - 9:00pm @ PHELAN COMMUNITY CENTER
16 NEW LIFE CHURCH OF THE NAZARENE 9:00am - 2:00pm @ PHELAN COMMUNITY CENTER NEW LIFE CHURCH OF THE NAZARENE 9:00am - 2:00pm @ PHELAN SENIOR CENTER SHEPARDS CALL BAPTIST CHURCH 9:00am - 1:00pm @ PINON HILLS COMMUNITY CENTER	17 PINON HILLS SENIORS CRIBBAGE & CRAFTS 10:00am - 3:00pm @ PINON HILLS COMMUNITY CENTER FARMER'S MARKET 2:00pm - 6:00pm @ PHELAN SENIOR CENTER FARMER'S MARKET 2:00pm - 6:00pm @ PHELAN COMMUNITY CENTER SHEPHARD'S CALL - PRIVATE EVENT 5:00pm - 9:00pm @ PINON HILLS COMMUNITY CENTER	18 CANCELLED - FITNESS IN THE PARK 9:00am - 10:00am @ PHELAN PARK CANCELLED - DANCE IN THE PARK 10:00am - 11:00am @ PHELAN PARK PHELAN SENIOR CLUB DAY 10:30am - 4:00pm @ PHELAN SENIOR CENTER CANCELLED - FINANCE COMMITTEE MEETING 4:00pm - 5:00pm @ PHELAN COMMUNITY CENTER SHEPHARD'S CALL - PRIVATE EVENT 5:00pm - 9:00pm @ PINON HILLS COMMUNTY CENTER	19 ENGINEERING COMMITTEE- CANCELLED 4:30pm - S:30pm @ PHELAN COMMUNITY CENTER SHEPHARD'S CALL - PRIVATE EVENT 5:00pm - 9:00pm @ PINON HILLS COMMUNITY CENTER	20 PAINTING IN THE PARK AGES 5-12 9:00am - 11:00am @ PHELAN PARK PAINTING IN THE PARK AGES 13 & UP 11:00am - 1:00pm @ PHELAN PARK PINON HILLS SENIOR CLUB DAY 11:00am - 3:00pm @ PINON HILLS COMMUNITY CENTER WASTE & RECYCLING COMMITTEE MEETING 3:00pm - 4:00pm @ PHELAN COMMUNITY CENTER	21 SENIOR LINE DANCE CLASS 8:30am - 11:00am PHELAN COMMUNITY CENTER PHELAN SENIOR CENTER - GAME DAY 10:00am - 4:30pm @ PHELAN SENIOR CENTER SHEPARDS CALL BAPTIST CHURCH 4:00pm - 7:00pm @ PINON HILLS COMMUNITY CENTER MOVIES IN THE PARK- DUSK 8:00pm - 10:00pm @ PHELAN PARK	22
23 NEW LIFE CHURCH OF THE MAZARENE 9:00am - 2:00pm @ PHELAN COMMUNITY CENTER NEW LIFE CHURCH OF THE NAZARENE 9:00am - 2:00pm @ PHELAN SENIOR CENTER SHEPARDS CALL BAPTIST CHURCH 9:00am - 1:00pm @ PINON HILLS COMMUNITY CENTER	24 ■ LIFELINE SCREENING 8:00am - 6:00pm ● PINON HILLS COMMUNITY CENTER FARMER'S MARKET 2:00pm - 6:00pm @ PHELAN SENIOR CENTER FARMER'S MARKET 2:00pm - 6:00pm @ PHELAN COMMUNITY CENTER	25 FITNESS IN THE PARK 9:00am - 10:00am PHELAN PARK DANCE IN THE PARK 10:00am - 11:00am	26 PHELAN SENIORSGAME DAY 9:30am - 3:00pm @ PHELAN SENIOR CENTER REGULAR BOARD MEETING 5:00pm - 8:00pm @ PHELAN COMMUNITY CENTER		28 SENIOR LINE DANCE CLASS S:30am - 11:00am @ PHELAN COMMUNITY CENTER PHELAN SENIOR CENTER - GAME DAY 10:00am - - 3:30pm @ PHELAN SENIOR CENTER SHEPARDS CALL BAPTIST CHURCH 4:00pm - 7:00pm @ PINON HILLS COMMUNITY CENTER MOVIES IN THE PARK- DUSK 8:00pm - 10:00pm @ PHELAN PARK	29 CASTRO- PRIVATE EVENT 12:00pm - 11:00pm @ PHELAN COMMUNITY CENTER
NEW LIFE CHURCH OF THE NAZARENE 9:00am - 2:00pm @ PHELAN COMMUNITY CENTER NEW LIFE CHURCH OF THE NAZARENE 9:00am HE NAZARENE 9:00am 2:00pm @ PHELAN SENIOR CENTER	31 PINON HILLS SENIORS CRIBBAGE & CRAFTS 10:00am - 3:00pm @ PINON HILLS COMMUNITY CENTER FARMER'S MARKET 2:00pm - 6:00pm @					

https://www.calendarwiz.com/calendars/calendar.php?crd=pphcsd&PHPSESSID=c53c975442242d7a2a83a6152b976bcd

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7/18/23, 11:27 AM	7/1	8/23.	11	:27	AM
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Calendar: July 2023

SHEPARDS CALL CHURCH 9:00am PINON HILLS COMMUNITY CEN	- 1:00pm CENTER				
Legend	 Community Calendar Phelan Senior Center 	 Kiwanis Club Pinon Hills Community Center 	Phelan Chamber of Commerce PPHCSD Board Events	 Phelan Community Center PPHCSD Events 	

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Clinical Laboratory of San Bernardino, Inc. Celebrating 50 Years of Analytical Service 1967-2017



4176 Warbler Rd Sub Project: Well 23 Title 22 Received: 10/15/19 T Phelan CA, 92371 Project Manager: Sean Wright Reported: 11/06/19 Well 23 (NW Dairy) 19J1384-01 (Water) Sample Date: 10/14/19 14:00 Sampler: Eric Barnes						2712-22-22						
Phelan CA (2231 Project Manager Sea Wright Reported 10/3/9 Report 10/3/9 Well 23 (NW Dairy) 19/1384-01 (Water) Sample Date: 10/14/19 14:00 Sampler: Eric Barnes Analyte Method Result Rep Limit MCL Unit Properd Analyzed Batch Qualifie End Analytes Method Result Rep Limit MCL Unit Properd Analyzed Batch Qualifie End Analytes Method Result Rep Limit MCL Unit Properd Analyzed Batch Qualifie General Color SM 21208M ND 3.0 1.5 Calor Units 10/15/19 10/15/19 19/21/16 Odor Threshold EPA 180.1 1.8 0.1 5 NTU 10/15/19 10/21/19 19/21/16 Alkalinity, Total (a CaCO) SM 2200 B 76 5.0 mg/L 10/21/19 10/21/19 19/21/19 19/22/19 Carbonate (CO3) SM 2200 B 76 5.0	Phelan Pinon Hills CSD			Project 1	Routine				Work Order	19J1384		
Vietness Controls Sample Date: 10/14/19 14/14/19 Location Analyse Method Result Rep Limit MCL Usit Prepared Analyzed Barch Qualifie Field Analyses Temperature (Field) Field 20.0 *C 10/14/19 10/14/19 1942039 General Physical Analyses Color Usits 10/14/19 10/14/19 10/14/19 1942039 General Physical Analyses Color Usits 10/15/19 10/15/19 10/15/19 1942116 Odor Threshold EPA 140 1 1 3 TON 10/15/19 10/15/19 1942116 General Chemical Analyses 5.0 mgL 10/15/19 10/21/19 1942039 Biscreboaster (HCO3) SM 32208 ND 5.0 mgL 10/15/19 10/15/19 1942039 Langelter Index at Source Timp SM 203 -0.004 10/14/19 10/14/19 10/14/19 1942039 Langelter Index at 60	4176 Warbler Rd											
Analyce Method Result Rep Limit MCL Units Prepared Analyzed Batch Qualifie Eidd Analyzes Temperature (Field) Field 20.0 "C 10/14/19 19/2039 General Physical Analyzes Apparent Color SM 2120BM ND 3.0 1.5 Celor Units 10/15/19 10/12/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 <td>Phelan CA, 92371</td> <td></td>	Phelan CA, 92371											
Line Network Read Rep Line ALL Units Prepared Analyzed Batch Qualific Field Analyzes Temperature (Field) Field 20.0 "C 10/14/19 19/12/19 19/12/19 19/12/16 Apparent Color SM 2120BM ND 3.0 1.5 Celer Units 10/15/19 10/12/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21	Well 23 (NW Dairy)		19J1384-01 (Water)				Sample Date: 10/14/19 14:00			Sampler: Eric Barnes		
Temperature (Field) Field 2.0.0 v.c. 1.0.1.1.10 1.0.1.1.10 1.0.2.0.20 General Physical Analyses Apparent Color SM 21208M ND 3.0 1.5 Celor Unus 1015/19 1012/19 1042039 General Chemical Analyses M2202B ND 5.0 mgL 1011/19 1012/19 1042039 Garbonate (CO3) SM 2320 ND 5.00 mgL 1011/19 1014/19 1942039 Langelier Index at 60 C SM 233 1.61 1014/19 1014/19 1942039 Specific Conductance (E.C.) SM 230 1.81	Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	d Batch	Qualifier		
Carrent Physical Analyses Color Section Filter Filter Apparent Color SM 2120BM ND 3.0 15 Celler Units 10/15/19 10/15/19 10/15/19 19/2116 Odor Threshold EPA 140, I-M 1 1 3 TON 10/15/19 10/15/19 19/2116 Carneral Chemical Analyses E S NTU 10/15/19 10/21/19 19/2116 Sceneral Chemical Analyses E S NTU 10/21/19 10/21/19 19/2039 Bicarbonate (HCO3) SM 2320 B 76 5.0 mg/L 10/21/19 10/21/19 19/2039 Carbonate (CO3) SM 2303 1.6 1.0 500 mg/L 10/21/19 10/21/19 19/2039 Langelier Index at Source Tmp SM 203 -6.00 1.6 1.0 500 mg/L 10/14/19 10/21/19 19/2039 Cyanide (CN) SM4500CNF ND 100 150 ug/L 10/14/19 10/21/19 19/2033 <tr< td=""><td>Field Analyses</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	Field Analyses											
Apparent Color SM 2120BM ND 30 15 Celor Units 10/15/19 10/15/19 19/2116 Odor Threshold EPA 140 I 1 1 3 TOM 10/15/19 10/15/19 19/2116 Turbidity EPA 140 I 1 1 3 TOM 10/15/19 10/15/19 19/2116 General Chemical Analyses SM 2200 62 50 mg/L 10/21/19 10/21/19 19/2039 Carbonate (ICO3) SM 2200 62 50 mg/L 10/21/19 10/21/19 19/2039 Carbonate (CO3) SM 2200 62 50 mg/L 10/21/19 10/21/19 19/2039 Langelier Index at Source Tmp SM 203 -0.005 10/14/19 10/14/19 10/21/19 10/14/19 19/2039 Cyanide (CN) SM4500CN ND 100 150 ug/L 10/14/19 10/21/19 10/14/19 19/2039 Gyanide (CN) SM4500CN ND 100 150 ug/L 10/14/19 10/21/19 10/21/19 10/21/19 10/21/19 10/21/	Temperature (Field)	Field	20.0			°C	10/14/19	10/14/19	1942039			
Odor Threshold EPA 140 1-M 1 1 3 TON 10/15/19 10/15/19 10/15/19 10/15/19 General Chemical Analyses	General Physical Analyses											
Odor Threshold EPA 140 1-M 1 1 3 TON 10/15/19 10/15/19 19/2116 Thrbidity EPA 180.1 1.8 0.1 5 NTU 10/15/19 10/21/19 19/2116 General Chemical Analyses Alkalinity, Total (as CaCO3) SM 2320 B 62 5.0 mg/L 10/21/19 10/21/19 19/2039 Gateronate (HCO3) SM 2320 B 76 5.0 mg/L 10/21/19 10/21/19 19/2039 Carbonate (CO3) SM 2320 B 76 5.0 mg/L 10/21/19 10/21/19 19/2039 Langelier Index at Source Tmp SM 203 0.60 10/14/19 10/14/19 19/2039 Aggressive Index SM 203 1.61 10/14/19 10/21/19 19/2039 Cyanide (CN) SM4300.3 1.181 10/14/19 10/21/19 19/21/28 Specific Conductance (E.C.) SM 4300.0 0.46 0.10 2 mg/L 10/15/19 19/21/29 Fluoride	Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/15/19	10/15/19	1942116			
Turbidity EPA 180.1 1.8 0.1 5 NTU 10/15/19	Odor Threshold	EPA 140.1-M	1	I.								
Alkalinity, Total (as CaCO3) SM 2320 B 62 5.0 mg/L 10/21/19 10/21/19 1942039 Bicarbonate (HCO3) SM 2320 B 76 5.0 mg/L 10/21/19 10/21/19 1942039 Carbonate (CO3) SM 2320 B ND 5.0 mg/L 10/21/19 10/21/19 1942039 Chloride (Cl) EPA 300.0 1.6 1.0 500 mg/L 10/14/19 10/14/19 1942039 Langelier Index at Source Tmp SM 203 0.60 10/14/19 10/14/19 10/14/19 1942039 Aggressive Index SM 203 1.81 10/14/19 10/14/19 10/14/19 1942039 Cyanide (CN) SM 500CNF ND 100 150 ug/L 10/17/19 10/17/19 1942039 Cyanide (CN) SM 5030 0.44 0.10 2 mg/L 10/14/19 10/14/19 1942039 Cyanide (CN) SM 5300 ND 100 150 ug/L 10/15/19 10/15/19 1942033 Specific Conductance (E.C.) SM 530.0 ND 0.0 10 mg/L	Turbidity	EPA 180.1	1.8	0.1								
Bicarbonate (HCO3) SM 2320 B 76 5.0 mg/L 10/21/19 10/21/19 19/42039 Carbonate (CO3) SM 2320B ND 5.0 mg/L 10/21/19 10/21/19 19/42039 Chloride (CI) EPA 300.0 1.6 1.0 500 mg/L 10/11/19 10/11/19 19/42033 Langelier Index at Source Tmp SM 203 0.600 10/11/19 10/11/19 19/42039 Aggressive Index SM 203 11.81 10/11/19 10/11/19 19/42039 Cyanide (CN) SM4500CNF ND 100 150 ug/L 10/17/19 10/17/19 19/42039 Cyanide (CN) SM 2320B ND 50 mg/L 10/15/19 10/15/19 19/42039 Flooride (C) SM 2300 ND 0.6 100 ug/L 10/15/19 10/15/19 19/42033 Nitrate N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 19/42033 Nitrate A Nitric (a N)	General Chemical Analyses											
Bicarboaste (HCO3) SM 2320 B 76 5.0 mg/L 10/21/19 10/21/19 19/42039 Carbonate (CO3) SM 2320B ND 5.0 mg/L 10/21/19 10/21/19 19/42039 Carbonate (CO3) EPA 300.0 1.6 1.0 500 mg/L 10/15/19 10/15/19 19/42033 Langelier Index at Source Tmp SM 203 0.6005 10/14/19 10/14/19 19/42039 Aggressive Index SM 203 11.81 10/14/19 10/14/19 19/42039 Cyanide (CN) SM4500CNF ND 100 150 ug/L 10/17/19 10/17/19 19/21/28 Specific Conductance (E.C.) SM 2320B ND 50 mg/L 10/15/19 10/15/19 19/21/19 19/21/28 Hydroxide (OH) SM 2320B ND 50 mg/L 10/15/19 10/15/19 19/21/19 19/2033 Nitrate s N(NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 19/2033	Alkalinity, Total (as CaCO3)	SM 2320 B	62	5.0		ma/l	10/21/19	10/21/19	10/2020			
Carbonate (CO3) SM 2320B ND 5.0 mg/L 10/L/19 10/L/19 10/L/19 10/L/19 Carbonate (CO3) EPA 300.0 I.6 I.0 500 mg/L 10/L/19 10/L/19 19/2033 Langeller Index at Source Tmp SM 203 0.005 10/L/L/19 10/L/L/19 19/2039 Langeller Index at 60 C SM 203 0.609 10/L/L/19 10/L/L/19 19/2039 Cyanide (CN) SM4500CNF ND 100 150 ug/L 10/L/L/19 19/2039 Cyanide (CN) SM4500CNF ND 100 150 ug/L 10/L/L/19 10/L/L/19 19/2039 Fluoride (F) EPA 300.0 0.46 0.10 2 mg/L 10/L/L/19 10/L/L/19 19/2033 Hydroxide (OH) SM 23200B ND 5.0 mg/L 10/L/L/19 10/L/L/19 19/2033 Nitrate as N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/L/L/19 10/L/L/19 19/2033 Nitrate						57518						
Chloride (C1) EPA 300.0 1.6 1.0 500 mg/L 10/11/19 19/10/39 Langelier Index at Source Tmp SM 203 -0.005 10/14/19 10/14/19 19/2033 Langelier Index at Source Tmp SM 203 0.60 10/14/19 10/14/19 19/2033 Aggressive Index SM 203 0.60 10/14/19 10/14/19 19/2033 Aggressive Index SM 203 1.81 10/14/19 10/14/19 19/2039 Cyanide (CN) SM4500CNF ND 100 us/L 10/17/19 10/17/19 19/2039 Fluoride (F) EPA 300.0 0.46 0.10 2 mg/L 10/17/19 19/2039 Hydroxide (OH) SM 220B ND 5.0 mg/L 10/15/19 10/15/19 19/2033 Nitrate sN (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 19/2033 Nitrate sN (NO2-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 19/2033 <td< td=""><td></td><td>SM 2320B</td><td></td><td></td><td></td><td>C 23.2</td><td></td><td></td><td></td><td></td></td<>		SM 2320B				C 23.2						
Langeller Index at Source Tmp SM 203 -0.005 Image in the start of the interval of	• •				500	0.73						
Langelier Index at 60 C SM 203 0.60 101/4/19 10/14/19 1942039 Aggressive Index SM 203 11.81 10/14/19 10/14/19 1942039 Cyanide (CN) SM 4500CNF ND 100 150 ug/L 10/14/19 1942039 Specific Conductance (E.C.) SM 35108 490 2.0 1600 umhos/cm 10/21/19 10/21/19 1942039 Fluoride (F) EPA 300.0 0.46 0.10 2 mg/L 10/15/19 10/15/19 1942039 Hydroxide (OH) SM 2320B ND 5.0 mg/L 10/15/19 10/15/19 1942033 MBAS (LAS Mole Wt 340.0) SM 540C ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Nitrate as N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Nitrate as N (NO2-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Sufface (SO4) EPA 300.0 ND 0.40 1 mg/L 10/15/19 <td></td> <td></td> <td></td> <td></td> <td>500</td> <td>ing/t-</td> <td></td> <td></td> <td></td> <td></td>					500	ing/t-						
Aggressive Index SM 203 11.81 Industry Industry Industry Cyanide (CN) SM4500CNF ND 100 150 ug/L 10/14/19 10/14/19 1942039 Specific Conductance (E.C.) SM 2510B 490 2.0 1600 umhos/cm 10/21/19 10/21/19 1942039 Fluoride (F) EPA 300.0 0.46 0.10 2 mg/L 10/17/19 10/17/19 1942033 Hydroxide (OH) SM 2320B ND 5.0 mg/L 10/15/19 10/15/19 1942033 MBAS (LAS Mole. Wt 340.0) SM 5400C ND 0.10 0.5 mg/L 10/15/19 10/15/19 1942033 Nitrate as N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Nitrate as N (NO2-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Sulfate (SO4) EPA 300.0 ND 0.40 1 mg/L 10/15/19												
Cyanide (CN) SM4500CNF ND 100 150 ug/L 1017179 1942128 Specific Conductance (E.C.) SM 2510B 490 2.0 1600 umhos/cm 10/21/19 19/2128 Fluoride (F) EPA 300.0 0.46 0.10 2 mg/L 10/15/19 10/21/19 19/2033 Hydroxide (OH) SM 2320B ND 5.0 mg/L 10/15/19 10/15/19 19/42033 MBAS (LAS Mole Wt 340.0) SM 5540C ND 0.10 0.5 mg/L 10/15/19 10/15/19 19/42033 Nitrate as N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 19/42033 Nitrate as N (NO2-N) EPA 300.0 ND 0.40 1 mg/L 10/15/19 10/15/19 19/42033 Perchlorate (CIO4) EPA 300.0 ND 0.40 1 mg/L 10/15/19 10/15/19 19/42033 Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 10/15/19 19/42033 Sulfate (SO4) EPA 200.7	-	SM 203										
Specific Conductance (E.C.) SM 2510B 490 2.0 100 unboskem 10/21/19 10/21/19 1942033 Fluoride (F) EPA 300.0 0.46 0.10 2 mg/L 10/21/19 10/21/19 1942033 Hydroxide (OH) SM 2320B ND 5.0 mg/L 10/21/19 10/21/19 1942033 MBAS (LAS Mole. Wt 340.0) SM 5540C ND 0.10 0.5 mg/L 10/15/19 10/15/19 1942033 Nitrate as N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Nitrate as N (NO2-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Nitrate as N (NO2-N) EPA 300.0 ND 0.40 1 mg/L 10/15/19 10/15/19 1942033 Perchlorate (CIO4) EPA 300.0 ND 0.40 6 wg/L 10/22/19 1942033 Sulfate (SO4) EPA 304.0 ND 6.0 500		SM4500CNF		100	150	11=7						
Fluoride (F) EPA 300.0 0.46 0.10 2 mg/L 10/15/19 10/15/19 19/12033 Hydroxide (OH) SM 2320B ND 5.0 mg/L 10/21/19 10/21/19 19/2033 MBAS (LAS Mole. Wt 340.0) SM 5540C ND 0.10 0.5 mg/L 10/15/19 10/15/19 19/12033 Nitrate as N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 19/42033 Nitrate + Nitrite (as N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 19/42033 Nitrite as N (NO2-N) EPA 300.0 ND 0.40 1 mg/L 10/15/19 10/15/19 19/42033 Perchlorate (CIO4) EPA 300.0 ND 4.0 6 ug/L 10/22/19 10/22/19 19/42033 Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 10/15/19 19/42033 Sulfate (SO4) EPA 200.7 50 500 mg/L 10/15/19 10/15/19 19/42033 Attiminum (Al)		SM 2510B										
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MBAS (LAS Mole, Wt 340.0) SM 5540C ND 0.10 0.5 mg/L 10/15/19 10/15/19 1942055 Nitrate as N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Nitrate + Nitrite (as N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Nitrate + Nitrite (as N) EPA 300.0 ND 0.40 1 mg/L 10/15/19 10/15/19 1942033 Nitrite as N (NO2-N) EPA 300.0 ND 0.40 1 mg/L 10/15/19 10/15/19 1942033 Perchlorate (CIO4) EPA 314.0 ND 4.0 6 ug/L 10/22/19 1942033 Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 10/15/19 1942033 Sulfate (SO4) EPA 300.7 50 500 mg/L 10/15/19 10/15/19 1942033 Sulfate (SO4) EPA 200.7 50 200 ug/L 10/22/19 1942033 Atterable Residue/TDS EPA 200.7 50	Hydroxide (OH)	SM 2320B			2	-						
Nitrate as N (NO3-N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 19/42033 Nitrate + Nitrite (as N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 19/42033 Nitrite as N (NO2-N) EPA 300.0 ND 0.40 1 mg/L 10/15/19 10/15/19 19/42033 Perchlorate (CIO4) EPA 314.0 ND 4.0 6 ug/L 10/15/19 10/15/19 19/42033 Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 10/15/19 19/42033 Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 10/15/19 19/42033 Total Filterable Residue/TDS SM 2540C 340 5.0 1000 mg/L 10/15/19 10/15/19 19/42033 Aluminum (Al) EPA 200.7 50 50 200 ug/L 10/22/19 19/42048 Arsenic (As) EPA 200.8 ND 6.0 6 ug/L 10/22/19 19/43040 Barium (Ba) EPA	MBAS (LAS Mole, Wt 340.0)	SM 5540C	ND	0.10	0.5	-						
Nitrate + Nitrite (as N) EPA 300.0 ND 0.40 10 mg/L 10/15/19 10/15/19 1942033 Nitrite as N (NO2-N) EPA 300.0 ND 0.40 1 mg/L 10/15/19 10/15/19 1942033 Perchlorate (CIO4) EPA 314.0 ND 4.0 6 ug/L 10/22/19 10/22/19 1942033 pH (Lab) SM 4500HB 8.3 pH linits 10/15/19 10/15/19 1942033 Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 1942033 Total Filterable Residue/TDS SM 2540C 340 5.0 1000 mg/L 10/15/19 1942033 Aluminum (Al) EPA 200.7 50 50 mg/L 10/15/19 10/17/19 1942033 Arsenic (As) EPA 200.8 ND 6.0 6 ug/L 10/22/19 10/22/19 1943048 Barium (Ba) EPA 200.7 ND 100 1000 ug/L 10/22/19 10/22/19 1943040 Beryllium (Be) EPA 200.8 ND 1.0 4 <	Nitrate as N (NO3-N)	EPA 300.0	ND			-						
Nitrite as N (NO2-N) EPA 300.0 ND 0.40 I mg/L 10/15/19 10/15/19 1942033 Perchlorate (CIO4) EPA 314.0 ND 4.0 6 ug/L 10/22/19 10/22/19 1943037 pH (Lab) SM 4500HB 8.3 pH Units 10/15/19 10/15/19 1942033 Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 10/15/19 1942033 Total Filterable Residue/TDS SM 2540C 340 5.0 1000 mg/L 10/16/19 10/17/19 1942070 Aluminum (Al) EPA 200.7 50 50 200 ug/L 10/22/19 10/22/19 1943048 Antimony (Sb) EPA 200.8 ND 6.0 6 ug/L 10/22/19 1943040 Barium (Ba) EPA 200.7 ND 100 ug/L 10/22/19 10/22/19 1943040 Beryllium (Be) EPA 200.8 4.5 2.0 10 ug/L 10/22/19 19/32/19 1943040 Boron (B) EPA 200.7 ND 100 1002/1	Nitrate + Nitrite (as N)	EPA 300.0	ND			-						
Perchlorate (CIO4) EPA 314.0 ND 4.0 6 ug/L 10/22/19 10/22/19 1943037 pH (Lab) SM 4500HB 8.3 pH Units 10/15/19 10/15/19 1942039 Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 10/15/19 1942033 Total Filterable Residue/TDS SM 2540C 340 5.0 1000 mg/L 10/16/19 10/17/19 1942070 Atuminum (Al) EPA 200.7 50 50 200 ug/L 10/22/19 10/22/19 1943048 Antimony (Sb) EPA 200.8 ND 6.0 6 ug/L 10/22/19 10/22/19 1943040 Arsenic (As) EPA 200.7 ND 100 1000 ug/L 10/22/19 10/22/19 1943040 Barium (Ba) EPA 200.7 ND 100 1000 ug/L 10/22/19 10/22/19 1943040 Beryllium (Be) EPA 200.7 ND 100 1000 ug/L 10/22/19 10/22/19 1943048 Boron (B) EPA 200.7 ND </td <td></td> <td>EPA 300.0</td> <td>ND</td> <td>0.40</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>		EPA 300.0	ND	0.40		-						
pH (Lab) SM 4500HB 8.3 pH Units 10/15/19 10/	Perchlorate (CIO4)	EPA 314.0			-							
Sulfate (SO4) EPA 300.0 180 0.50 500 mg/L 10/15/19 10/15/19 1942033 Total Filterable Residue/TDS SM 2540C 340 5.0 1000 mg/L 10/16/19 10/15/19 1942033 Metals SM 2540C 340 5.0 1000 mg/L 10/16/19 10/17/19 1942070 Metals Auminum (Al) EPA 200.7 50 50 200 ug/L 10/22/19 10/22/19 1943048 Antimony (Sb) EPA 200.8 ND 6.0 6 ug/L 10/22/19 10/22/19 1943040 Arsenic (As) EPA 200.8 4.5 2.0 10 ug/L 10/22/19 10/22/19 1943040 Barium (Ba) EPA 200.7 ND 100 1000 ug/L 10/22/19 10/22/19 1943040 Beryllium (Be) EPA 200.8 ND 1.0 4 ug/L 10/22/19 1943040 Boron (B) EPA 200.7 ND 100 ug/L 10/22/19 10/22/19 1943048 Cadmium (Cd) EPA 200.8 ND		SM 4500HB	8.3		0							
Total Filterable Residue/TDS SM 2540C 340 5.0 1000 mg/L 10/16/19 10/17/19 1942070 Metals Aluminum (Al) EPA 200.7 50 50 200 ug/L 10/22/19 10/22/19 1943048 Antimony (Sb) EPA 200.8 ND 6.0 6 ug/L 10/22/19 10/22/19 1943040 Arsenic (As) EPA 200.8 A.5 2.0 10 ug/L 10/22/19 10/22/19 1943040 Barium (Ba) EPA 200.8 ND 100 1000 ug/L 10/22/19 10/22/19 1943040 Beryllium (Be) EPA 200.8 ND 100 1000 ug/L 10/22/19 10/22/19 1943040 Boron (B) EPA 200.8 ND 1.0 4 ug/L 10/22/19 1943040 Cadmium (Cd) EPA 200.8 ND 1.0 5 ug/L 10/22/19 1943040 Beryllium (Be) EPA 200.8 ND 1.0 4 ug/L 10/22/19 1943040 Boron (B) EPA 200.8 ND 1.0		EPA 300.0		0.50	\$00	•						
Metals EPA 200.7 50 50 200 ug/L 10/22/19 10/22/19 1943048 Antimony (Sb) EPA 200.8 ND 6.0 6 ug/L 10/22/19 10/22/19 1943040 Arsenic (As) EPA 200.8 4.5 2.0 10 ug/L 10/22/19 1943040 Barium (Ba) EPA 200.7 ND 100 1000 ug/L 10/22/19 1943040 Beryllium (Be) EPA 200.8 ND 1.0 4 ug/L 10/22/19 1943040 Boron (B) EPA 200.7 ND 100 100 ug/L 10/22/19 1943040 Cadmium (Cd) EPA 200.8 ND 1.0 4 ug/L 10/22/19 1943040 Calaium (Cd) EPA 200.8 ND 1.0 5 ug/L 10/22/19 1943048						*						
Antimony (Sb) EPA 200.8 ND 6.0 6 ug/L 10/22/19 19/3040 Arsenic (As) EPA 200.8 4.5 2.0 10 ug/L 10/22/19 19/43040 Barium (Ba) EPA 200.8 4.5 2.0 10 ug/L 10/22/19 19/43040 Beryllium (Be) EPA 200.8 ND 1.0 4 ug/L 10/22/19 19/43040 Boron (B) EPA 200.7 ND 100 ug/L 10/22/19 19/43040 Cadmium (Cd) EPA 200.8 ND 1.0 4 ug/L 10/22/19 19/43048	Metals											
Antimony (Sb) EPA 200.8 ND 6.0 6 ug/L 10/22/19 19/3040 Arsenic (As) EPA 200.8 4.5 2.0 10 ug/L 10/22/19 19/43040 Barium (Ba) EPA 200.8 4.5 2.0 10 ug/L 10/22/19 19/43040 Barium (Ba) EPA 200.8 ND 100 1000 ug/L 10/22/19 19/43040 Beryllium (Be) EPA 200.8 ND 1.0 4 ug/L 10/22/19 19/43040 Boron (B) EPA 200.7 ND 100 ug/L 10/22/19 19/43040 Cadmium (Cd) EPA 200.8 ND 1.0 4 ug/L 10/22/19 19/43048 Cadmium (Cd) EPA 200.8 ND 1.0 5 ug/L 10/22/19 19/43040	Aluminum (Al)	EPA 200 7	50	50		18 a	10/22/10	1002/10	1012010			
Arsenic (As) EPA 200.8 4.5 2.0 10 ug/L 10/22/19 19/3040 Barium (Ba) EPA 200.7 ND 100 1000 ug/L 10/22/19 19/43040 Beryllium (Be) EPA 200.8 ND 1.0 4 ug/L 10/22/19 19/43040 Boron (B) EPA 200.7 ND 100 ug/L 10/22/19 19/43040 Cadmium (Cd) EPA 200.8 ND 1.0 5 ug/L 10/22/19 19/43040						-						
Barium (Ba) EPA 200.7 ND 100 100 ug/L 10/22/19 19/3048 Beryllium (Be) EPA 200.8 ND 1.0 4 ug/L 10/22/19 19/43040 Boron (B) EPA 200.7 ND 100 ug/L 10/22/19 10/22/19 19/43040 Cadmium (Cd) EPA 200.8 ND 1.0 5 ug/L 10/22/19 19/43040												
Beryllium (Be) EPA 200.8 ND I.0 4 ug/L I0/22/19 1943040 Boron (B) EPA 200.7 ND 100 ug/L 10/22/19 1943048 Cadmium (Cd) EPA 200.8 ND 1.0 5 ug/L 10/22/19 1943040 Cadmium (Cd) EPA 200.8 ND 1.0 5 ug/L 10/22/19 1943040												
Boron (B) EPA 200 7 ND 100 ug/L 10/22/19 19/3040 Cadmium (Cd) EPA 200 8 ND 1.0 5 ug/L 10/22/19 19/3040												
Cadmium (Cd) EPA 200.8 ND 1.0 5 ug/L 10/22/19 19/3040 Calairm (Co) EPA 200.7 22 1.0 5 ug/L 10/22/19 19/43040					4	-						
mg/L 10/23/19 10/23/19 1943074					5							
	Carciam (Ca)	EFA 200 /	22	1,0		mg/L	10/23/19	10/23/19	1943074			

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Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

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Celebrating 50 Years of Analytical Service 1967-2017



Phelan Pinon Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: R ub Project: W t Manager: Se	ell 23 Title	22			Work Orde Received Reported:	r:: 19J1384 10/15/19 15:40 11/06/19
Well 23 (NW Dairy)	19J1384-01 (Wate				Sample Date	: 10/14/19	14:00	Sampler:	Eric Barnes
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Metals									
Chromium (+6)	EPA 218.6	ND	1.0		ug/L	10/14/19	10/21/19	1942110	1
Chromium (Total Cr)	EPA 200.8	ND	10	50	ug/L	10/22/19	10/22/19	1943040	1
Copper (Cu)	EPA 200.7	ND	50	1000	ug/L	10/22/19	10/22/19	1943048	1
Iron (Fe)	EPA 200.7	720	100	300	ug/L	10/22/19	10/22/19	1943048	:
Lead (Pb)	EPA 200.8	ND	5.0		ug/L	10/22/19	10/22/19	1943040	1
Magnesium (Mg)	EPA 200.7	2.2	1.0		mg/L	10/23/19	10/23/19	1943074	
Manganese (Mn)	EPA 200 7	ND	20	50	ug/L.	10/22/19	10/22/19	1943048	
Mercury (Hg)	EPA 200 8	ND	1.0	2	ug/L	10/21/19	10/21/19	1943011	
Nickel (Ni)	EPA 200 8	ND	10	100	ug/L	10/22/19	10/22/19	1943040	
Potassium (K)	EPA 200.7	2.7	1.0		mg/L	10/23/19	10/23/19	1943074	
Selenium (Se)	EPA 200.8	ND	5.0	50	ug/L	10/22/19	10/22/19	1943040	
Silver (Ag)	EPA 200.8	ND	10	100	ug/L	10/22/19	10/22/19	1943040	
Sodium (Na)	EPA 200.7	84	1.0		mg/L	10/23/19	10/23/19	1943074	
Thallium (Tl)	EPA 200.8	ND	1.0	2	ug/L	10/22/19	10/22/19	1943040	
Vanadium (V)	EPA 200.8	25	3.0		ug/L	10/22/19	10/22/19	1943040	
Zinc (Zn)	EPA 200.7	ND	50	5000	ug/L	10/22/19	10/22/19	1943048	
nion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	65			тg/L.	10/23/19	10/23/19	[CALC]	
Total Anions	Calculated	5,06			meg/L	10/23/19	10/21/19	[CALC]	
Total Cations	Calculated	5			meq/L	10/23/19	10/23/19	[CALC]	
% difference	Calculated	1.1				10/23/19	10/21/19	(CALC)	
adiochemistry Analyses									
Gross Alpha	SM 7110C	ND	3.0	15	pCi/L	10/21/19	10/21/19	1942037	
Gross Alpha Counting Error	SM 7110C	0.67		12	pCi/L	10/21/19	10/21/19	1942037	
Gross Alpha Min Det Activity	SM 7110C	0.74			pCi/L	10/21/19	10/21/19	1942037	
Uranium	EPA 200,8	ND	1.0	20	pCi/L	10/16/19	10/16/19	1942063	
olatile Organic Analyses					F				
Vinyl Chloride (VC)	EPA 524.2	ND	0.50			10/18/19	10/10/10	1042177	
Trichlorofluoromethane (FREON 11)	EPA 524.2 EPA 524.2	םא סא	5.0	0.5	-6		10/19/19	1942165	
	EPA 524 2 EPA 524 2	ND	0.50	150	-0 -	10/18/19	10/19/19	1942165	
1,1-Dichloroethylene (1,1-DCE)	EPA 524 2 EPA 524 2	ND		6	-0 -	10/18/19	10/19/19	1942165	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524 2 EPA 524 2	ND	10 0.50	1200	0 -	10/18/19	10/19/19	1942165	
Dichloromethane (Methylene Chloride)	ECA 344 4	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	

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Celebrating 50 Years of Analytical Service 1967-2017



Phelan Pinon Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: Re ub Project: W t Manager: Se	ell 23 Title	22			Work Order Received Reported	19J1384 10/15/19 15:40 11/06/19
Well 23 (NW Dairy)		19J1384-0)1 (Water)		Sample Date:	10/14/19	14:00	Sampler:	Eric Barnes
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses									
Methyl tert-Butyl Ether	EPA 524.2	ND	3.0	13	ug/L	10/18/19	10/19/19	1942165	
1,1-Dichloroethane (1,1-DCA)	EPA 524.2	ND	0.50	5	-e ug/L	10/18/19	10/19/19	1942165	
cis-1,2-Dichloroethylene (c-1,2-DCE)	EPA 524.2	ND	0.50	6	ug/L	10/18/19	10/19/19	1942165	
Chloroform (Trichloromethane)	EPA 524,2	ND	1.0		ug/L	10/18/19	10/19/19	1942165	
Carbon Tetrachloride	EPA 524.2	ND	0.50	0.5	-9 ug/L	10/18/19	10/19/19	1942165	
1,1,1-Trichloroethane (1,1,1-TCA)	EPA 524.2	ND	0.50	200	ug/L	10/18/19	10/19/19	1942165	
Benzene	EPA 524.2	ND	0.50	1	ug/L	10/18/19	10/19/19	1942165	
1,2-Dichloroethane (1,2-DCA)	EPA 524 2	ND	0.50	0.5	ug/L,	10/18/19	10/19/19	1942165	
Trichloroethylene (TCE)	EPA \$24.2	ND	0.50	5	ug/L.	10/18/19	10/19/19	1942165	
1,2-Dichloropropane	EPA \$24.2	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	
Bromodichloromethane	EPA 524_2	ND	1.0	Ū	- <u>₽</u> vg/L	10/18/19	10/19/19	1942165	
Toluene	EPA 524.2	ND	0.50	150	vg/L	10/18/19	10/19/19	1942165	
Tetrachloroethylene (PCE)	EPA 524_2	ND	0.50	5	-æ– ug/L	10/18/19	10/19/19	1942165	
I,1,2-Trichloroethane (1,1,2-TCA)	EPA 524.2	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	
Dibromochloromethane	EPA 524_2	ND	1.0	-	-	10/18/19	10/19/19	1942165	
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	0.50	70	0	10/18/19	10/19/19	1942165	
Ethyl Benzene	EPA 524.2	ND	0.50	300	· •	10/18/19	10/19/19	1942165	
m,p-Xylene	EPA 524.2	ND	1.0		v	10/18/19	10/19/19	1942165	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50		Ų	10/18/19	10/19/19	1942165	
0-Xylene	EPA 524.2	ND	0.50		-0 -	10/18/19	10/19/19	1942165	
trans-1,3-Dichloropropene	EPA 524_2	ND	0.50		-0 -	10/18/19	10/19/19	1942165	
Styrene	EPA 524.2	ND	0.50	100	÷.	10/18/19	10/19/19	1942165	
Bromoform	EPA 524.2	ND	1.0		9	10/18/19	10/19/19	1942165	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0,50		· • •	10/18/19	10/19/19	1942165	
I,4-Dichlorobenzene (p-DCB)	EPA 524.2	ND	0.50	5		0/18/19	10/19/19	1942165	
1,2-Dichlorobenzene (o-DCB)	EPA 524.2	ND	0.50	600	•	0/18/19	10/19/19	1942165	
1,2,4-Trichlorobenzene	EPA 524 2	ND	0.50	5	0	0/18/19	10/19/19	1942165	
Total 1,3-Dichloropropene	EPA 524.2	ND	0.50	0.5	-0 -	0/18/19	10/19/19	1942165	
Total Trihalomethanes (TTHM)	EPA 524.2	ND	1,0	80		0/18/19	10/19/19	1942165	
Total Xylenes (m,p & o)	EPA 524.2	ND	0.50	1750		0/18/19	10/19/19	1942165	
Surrogate: Bromofluorobenzene	EPA 524.2	76 %		1750	•	0/18/19	10/19/19	1942165	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524_2	71 %				0 18/19	10 19 19	1942165	
emi-Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	0.05	ug/L.	0/24/19	10/25/19	1943117	

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Celebrating 50 Years of Analytical Service 1967-2017



Phelan Pinon Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: R Sub Project: V et Manager S	Vell 23 Title	: 22			Work Orde Received: Reported	r. 19J1384 10/15/19 15:40 11/06/19
Well 23 (NW Dairy)		19J1384-(01 (Water)		Sample Date	:: 10/14/19	14:00	Sampler:	Eric Barnes
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyze	d Batch	Qualifier
Semi-Volatile Organic Analyses / EPA 504									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	0.2	ug/L	10/24/19	10/25/19	1943117	,
Synthetic Organic Analyses / 1,2,3-TCP					_				
1,2,3-Trichloropropane	SRL \$24M-TCP	ND	0.0050	0.005	ug/L	10/15/19	10/16/19	1942054	ļ
Synthetic Organic Analyses									
Endrin	EPA 508.1	ND	0.10	2	ug/L	10/23/19	10/31/19	1943086	i
Lindane (gamma-BHC)	EPA 508.1	ND	0.20	0.2	ug/L	10/23/19	10/31/19		
Methoxychlor	EPA 508.1	ND	10	30	ug/L	10/23/19	10/31/19	1943086	;
Toxaphene	EPA 508_1	ND	.0	3	ug/L	10/23/19	10/31/19	1943086	;
Chlordane	EPA 508 1	ND	0_10	0.1	ug/L	10/23/19	10/31/19	1943086	
Heptachlor	EPA 508.1	ND	0.010	0.01	ug/L	10/23/19	10/31/19	1943086	
Heptachlor Epoxide	EPA 508, I	ND	0.010	0.01	ug/L	10/23/19	10/31/19	1943086	
Hexachlorobenzenc	EPA 508.1	ND	0.50	1	ug/L	10/23/19	10/31/19	1943086	
Hexachlorocyclopentadiene	EPA 508.1	ND	1.0	50	ug/L	10/23/19	10/31/19	1943086	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	0,50	0.5	ug/L	10/23/19	10/31/19	1943086	
Surrogate: 4-4'-Dichlorobiphenyl	EPA 508.1	102 %			U	10/23/19	10/31/19		
Dalapon	EPA 515.4	ND	0	200	ug/L	10/22/19	10/24/19	1942144	
2,4,5-TP (SILVEX)	EPA 515 4	ND	1.0	50	ug/L	10/22/19	10/24/19	1942144	
Bentazon (BASAGRAN)	EPA 515.4	ND	2,0	18	ug/L	10/22/19	10/24/19	1942144	
Picloram	EPA 515.4	ND	1.0	500	ug/L	10/22/19	10/24/19	1942144	
2,4-D	EPA 515.4	ND	10	70	ug/L	10/22/19	10/24/19	1942144	
Pentachlorophenol (PCP)	EPA 515.4	ND	0.20	1	ug/L	10/22/19	10/24/19	1942144	
Dinoseb (DNBP)	EPA 515.4	ND	2.0	7	ug/L	10/22/19	10/24/19	1942144	
Surrogate: 2,4-Dichlorophenylacetic acid	EPA 515.4	104 %			-	10/22/19	10/24/19	1942144	
Alachlor (ALANEX)	EPA 525.2	ND	1.0	2	ug/L	10/20/19	10/22/19	1943001	
Atrazine (AATREX)	EPA 525.2	ND	0.50	1	ug/L	10/20/19	10/22/19	1943001	
Benzo(a)pyrene	EPA 525.2	ND	0.10	0.2	ug/L	10/20/19	10/22/19	1943001	
Diethylhexylphthalate (DEHP)	EPA 525 2	ND	3.0	4	ug/L	10/20/19	10/22/19	1943001	
Di(2-ethylhexyl) adipate	EPA \$25.2	ND	5.0	400	ug/L	10/20/19	10/22/19	1943001	
Molinate (ORDRAM)	EPA 525 2	ND	2.0	20	ug/L	10/20/19	10/22/19	1943001	
Simazine (PRINCEP)	EPA 525 2	ND	1.0	4	ug/L	10/20/19	10/22/19	1943001	
Thiobencarb (BOLERO)	EPA \$25.2	ND	1.0	70	ug/L	10/20/19	10/22/19	1943001	
Surrogate: 1,3-dimethyl-2-nitrobenzene	EPA 525.2	121 %			-	10/20/19	10/22/19	1943001	
Surrogate: Perylene-d12	EPA 525.2	104 %				10'20'19	10/22/19	1943001	
Surrogate: Triphenylphosphate	EPA 525.2	114 %				10/20/19	10/22/19	1943001	

Bob Slanfy

Bob Glaubig *.aboratory Director

Page 4 of 5

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

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Celebrating 50 Years of Analytical Service 1967-2017



Phelan Pinon Hills CSD 4176 Warbler Rd Phelan CA, 92371		Project: Routine Sub Project: Well 23 Title 22 Project Manager: Sean Wright							
Well 23 (NW Dairy)		19J1384-(01 (Water)		Sample Dat	e: 10/14/19	14 00	Sampler: Er	ric Barnes
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
ynthetic Organic Analyses									
Oxamyl (VYDATE)	EPA 531:1	ND	20	50	ug/L	10/30/19	10/31/19	1944034	
Carbofuran (FURADAN)	EPA 531.1	ND	5.0	18	ug/L.	10/30/19	10/31/19	1944034	
Glyphosate	EPA 547	ND	25	700	ug/L	10/23/19	10/23/19	1943066	
Endothall	EPA 548]	ND	45	100	ug/L	10/16/19	10/18/19	1942064	
Diquat	EPA 549.2	ND	4.0	20	ug/L	10/21/19	11/06/19	1943022	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Slaufy

Bob Glaubig *.aboratory Director

Page 5 of 5



Attn:

LA Testing

520 Mission Street South Pasadena, CA 91030 Phone/Fax: (323) 254-9960 / (323) 254-9982 http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 321922407 Customer ID: 32CLIN51 Customer PO: Project ID: Phone: (909) 825-7693 Clinical Laboratory of San Bernardino Fax: Received: 10/16/2019

Analyzed:

10/24/2019

19J1384 Proj:

Bob Glaubig

PO BOX 329

San Bernardino, CA 92402

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

			Effective Filter Area			A	SBESTOS		
Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered		– Area Analyzed	Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
		(ml)	(ml) (mm*)			MFL (million fibers per liter)			
Well 23 (NW Dairy)/19J1384-01 321922407-0001	10/17/2019 02:30 PM	30	1288	0.2210	None Detected	ND	0.19	<0.19	0.00 - 0.72
Collection Date/Time	10/14/2019 14:0	00 PM							

Sample ozonated prior to analysis due to lab filtration time exceeding 48hr method hold time.

Analyst(s)

Sherrie Ahmad

(1)

6

Jerry Drapala Ph.D, Laboratory Manager or Other Approved Signatory

Any questions please contact Jerry Drapala,

Initial report from: 10/28/2019 07:08:59

Sample collection and containers provided by the client, acceptable bottle blank level is defined as \$0.01MFL>10um. ND=None Detected. This report relates only to those items tested. This report may not be reproduced, except in full, without written permission by LA Testing. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2263

Test Report: TEM100.2-2.2.0.2 Printed: 10/28/2019 07:08AM

Clin	ical Laboratory of San Bernardino 19J1384	
ENDING LABORATORY:	RECEIVING LABORATORY:	
Clinical Laboratory of San Bernardino 1881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Bob Glaubig	LA Testing 520 Mission Street South Pasadena, CA 91030 Phone :(323) 254-9960 Fax: (323) 254-9982	
Please email results to Project Manager: Bob Glaubi glaubig@clinical-lab.com [] styles@clinical-		
California EDT transfer those samples with I Water Trax Upload Client:		
Furn Around Time [, 10 Days [] 5 Days Subcontract Comments:	[] Other Days	
Analysis		Comments
Asbestos in Drinking Water EPA 100.2	Water WTX	ID: Extra charge for old sample is authorized
Asbestos in Drinking Water EPA 100.2 Intuiners Supplied: Quart Plastic (S)	Water WTX	
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mainers Supplied:		Extra charge for old sample is authorized
mainers Supplied:		Extra charge for old sample is authorized
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mainers Supplied:		Extra charge for old sample is authorized
muiners Supplied:		Extra charge for old sample is authorized



FINAL REPORT

Work Orders:	9J16010	Report Date:	10/25/2019
		Received Date:	10/16/2019
Project:	19J1384	Turnaround Time:	7 workdays
		Phones:	(909) 825-7693
		Fax:	(909) 825-7696
Attn:	Bob Glaubig	P.O. #:	
Client:	Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313	Billing Code:	

Dear Bob Glaubig,

(

WECK LABORATORIES, INC.

Enclosed are the results of analyses for samples received 10/16/19 with the Chain-of-Custody document. The samples were received in good condition, at 4.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample:	Well 23 (NW Dairy) / 19J13	84-01				20	Sampled: 10/14/19 14:0	00 by Client
Analyte	9J16010-01 (Water)		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 2,3,7,8-TCI	1613B DD (Dioxin)	Batch ID: W9J1103	Instr: GCM515 ND	Prepared: 1 5.00	0/17/19 14:38 pg/l	1	Analyst: EFC 10/24/19 19:35	



016010

Quality Control Results

Certificate of Analysis

FINAL REPORT

Semivolatile Organics - Low Level by Tandem GC/MS/MS

Analyte				Spike	Source		%REC		RPD	
	Result	MRL	Units	Leve	Result	%REC	Limits	RPD	Umit	Qualifier
Batch: W9J1103 - EPA 3510/L-L SF										
Blank (W9J1103-BLK1)				Prepared: 10/17/	19 Analyzed: 1	0/24/19				
2,3,7,8-TCDD (Dioxin)	ND	5.00	pg/l		re rainyata.					
LCS (W9J1103-BS1)										
			1	Prepared: 10/17/	19 Analyzed: 1	0/24/19				
2.3.7.8-TCDD (Dioxin)	4.37	5.00	pg/t	5.00		87	50-148			
LCS Dup (W9J1103-BSD1)			1	Prepared: 10/17/	19 Analyzed: 1	0/24/19				
2.3.7.8-TCDD (Dioxin)	6.42	5.00	pg/l	5,00		128	50-148	38	20	Q-12
	0.42	5.00	pg/i	5,00		128	50-148	38	20	

14859 Clark Avenue.City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634



Notes and Definitions

Certificate of Analysis

FINAL REPORT

Definition Item The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted Q-12 based on the percent recoveries and/or other acceptable QC data. % Rec Percent Recovery Dil Dilution dry Sample results reported on a dry weight basis MDA Minimum Detectable Activity MDL Method Detection Limit The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. MRL The MRL is also known as Limit of Quantitation (LOQ) NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or ND above the MDL. NR Not Reportable RPD **Relative Percent Difference** Source Sample that was matrix spiked or duplicated TIC

TC Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified,

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

iancola

Regina Giancola Project Manager







ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

SUBCONTRACT ORDER

Contraction of the second second

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Clinical Laboratory of San Bernardino

19J1384

9316010

SENDING LABORATORY:	RECEIVING LABORATORY:	
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Bob Glaubig	Weck Lab, Analytical & Environmental 14859 E Clark Ave Industry, CA 91745 Phone :(626) 336-2139 Fax: (626) 336-2634	
Please email results to Project Manager: Bob Glaubig [v] glaubig@clinical-lab.com [] styles@clinical-la		
California EDT transfer those samples with PS Water Trax Upload Client:	codes provided [] Yes [V] No [] Yes [V] No	
Turn Around Time [] 10 Days [] 5 Days Subcontract Comments:		
Amateria	Comments	
Analysis		_
Sample ID: Well 23 (NW Dairy) / 19J1384-01	Sampled: 10/14/19 14:00 PS Code: Water WTX ID:	
1613 Dioxins TCDD DW Weck		
Containers Supplied:		
L Amber Glass Na Thio (A) 1 L Ambe	r Glass Na Thio (B)	

BJ Shr	10/16/19 0	7:30	A ap	> 1	d1619	836
Released By	Date / Time		Received By		Date / Time	
1 And	10/16/19	1011	Jamehm	10/14/10	101	4.5°C TOUL
Released By	Date / Time		Received By		Date / Time	

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wo [4]. [4]		und Time (TAT) Comments					A A - Studge O - Other (5) Five Day Rush (2) Two Day Rush Print Name / Company	Klearp/c/
/ v 805 737-7300 -	Dioxin		×		2 - EPA 16	13 ambers	0 - Other ay Rush (Name /	Work Order Legged By:
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100 93436		Pesticide	×		1 - EPA 5	31 amber	- S - S - S - S - S - S - S - S - S - S	prk o
ISTOC A 9343	DEHIP/DEH	A/PAH/Triazine	×	_	2 - EPA 52	5 ambers	a er Runoff S (10) Ten Day)	
CA	Chlor. Pesti	cide / Herbicide	×	1 - EPA :	508 amber /	1 - EPA 515 amb	1 (10) - 1	
	VOC/1,2,3-1	TCP/EDB,DBCP	×	4 - EPA 5	i24 HCl vial	s / 2 - EPA 504 vi	rin mwate TAT: (Sigr	
Chain of Custody	Gross Alpha	/Uranium/Asbestos	×	1 - 1/2 g	allon plastic	:/l-quart plasti		
in .		hemical / Gen Phy	X	1 - pin	at plastic / I	- gen phys glass	IR-S	Samples / COC Checked By:
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0, Inc. () 909 825-7693 Destination Let	nical nical ter:	Unpreserved	2				Vater	5
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Clinical Lab of San Bernardin 21881 Barton Road Grand Terrace CA 92313 client	Address: Client Contact: Phone No.:	System No.: Project: Sampled By: Comments: Date Tim	10/14/192.DC				Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement Relinquished By (Sign) Print Name / Company Relinquished By (Sign) CV Concrates Print Company	(Lab Use Only) Lo Shipped Via: [] Lo Condition: [] Receipt Comments:
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Geo-Monitor, Inc.



Client:Phelan Pinon Hills CSD
4176 Warbler Rd.
Phelan, CA 92371Project:Well 23

Contact Sean Wright Phone: (760)868-1212 Fax: (760)868-2323 System 3610120

Sampler: Date Sampled: Date/Time Setup: Date/Time Read: Date Reported:

Eric Barnes October 14, 2019 October 14, 2019 1700 October 16, 2019 1630 October 17, 2019

Results

Laborator	Comula		5		SM 92	SM 9215B	
Laboratory ID	Time	Sample Location	Cl Res (mg/L)	Sample Type	Total Coliform	E. coli	HPC cfu / 1 mL
B327	13:35	Well 23	0				
		Well 20	0	1-W	Absent		4

Sample Types 1 = routine 2 = repeat 3 = replacement 4 = special W = well D = distribution

-55.55 GM

Director:

P.O. Box 401428 • Hesperia, CA 92340 • 760-244-3481 • ELAP Number 2691

12 24.34

Client IP talan Plaion Ellis CSD Client Job No. Analysis Requested Address 4dress 4dress 2011 Phone No. (760) 858-1212 Fax No. [Cr69) 858-1323 Destination Laboratory 2019 Schein No. (760) 858-1212 Fax No. [Cr69) 858-1323 Destination Laboratory 2019 Schein No. (760) 858-1212 Fax No. [Cr69) 858-1323 Destination Laboratory 2010 Schein No. Well 23 [1] Other: 1 1 Schein No. Sample Identification [1] Other: 1 1 Date Time Sample Identification Matrix INO. Press, Type 1 Date Time Sample Identification Matrix INO. Press, Type 1 104409 1/25 weat 25 Wat 23 27.7 W.1 V.2 2019 2010 Matrix INO. Press, Type 1 1 104409 1/25 weat 25 Wat 23 1 1 1 2014 1/24 Structure 10 1 1 1 104409 1/24 Structure 1 1 1 1 104409 1/24 Structure 1 1 1 1 1 104409 1/24 Structure <th>Sample Types: (1) Routine: (2) Repeat: (3) Replacement: (4) Special: (W) Well (D) Distribution All turn around times are expressed as working days / Not all analyses can be processed as rush es/ PPHCSD //b-/H-/9. @. /5:,5 //bf/e. //u/L- No Receipt Temperature: (ct X Receipt Temperature: (ct X Comments:</th> <th>3) Cold</th> <th>Preservatives: (1) (2) Rec'd at Lab.By: Rec'd on Ice Yes</th>	Sample Types: (1) Routine: (2) Repeat: (3) Replacement: (4) Special: (W) Well (D) Distribution All turn around times are expressed as working days / Not all analyses can be processed as rush es/ PPHCSD //b-/H-/9. @. /5:,5 //bf/e. //u/L- No Receipt Temperature: (ct X Receipt Temperature: (ct X Comments:	3) Cold	Preservatives: (1) (2) Rec'd at Lab.By: Rec'd on Ice Yes
Phelan Pinion Hills CSD Client Job No. Analysis Requested 4176 Warbler Rd. 3 3 3 [760] 868-1121 Fax No. [res] 868-3233 Destination Laboratory 3 Sean Wright Cell No. [res] 888-7255 [X] Geo-Monitor, Inc 3 Sean Wright Cell No. [res] 888-7255 [X] Geo-Monitor, Inc 3 Well 23 Eric Barnes 1 Other: 3 me Sample Identification Matrix No. Pres, Type [9] Wal 13 Sample Identification Matrix No. Pres, Type [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9]	ample Types: (1) Routine (2) Repeat (3) Replacement (4) Special (M) Well Il turn around times are expressed as working days / Not all analyses can be proc Date / Time Received By (Sign) (b-14-19-C-(S:)5 Hbfe fud-or Comments:	3) Cold	Preservatives: (1) (2) Rec'd at Lab By:
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Phelan Pinion Hills CSD Client Job No. SS 4176 Warbler Rd. Phelan, CA 92371 Destination Laboratory NO. (760) 868-1212 Fax No. (760) 868-2333 Destination Laboratory ct Sean Wright Cell No. (760) 885-7255 [X] Geo-Monitor, Inc m No. Weilf 23 Image: Cell No. (760) 885-7255 [Y] Other: Well 23 Eric Barnes Image: Cell No. (760) 885-7255 [Y] Other: fed By Eric Barnes Vell 23 Image: Cell No. (760) 885-7255 fed By Eric Barnes Image: Cell No. (760) 885-7255 Image: Cell No. (760) 885-7255 fed By Eric Barnes Image: Cell No. (760) 885-7255 Image: Cell No. (760) 885-7255 Image: Cell No. (760) 885-7255 fed By Eric Barnes Image: Cell No. (760) 885-7255 Image: Cell No. (760) 885-7255 Image: Cell No. (760) 885-7255 fed By Eric Barnes Image: Cell No. (760) 885-7255 Image: Cell No. (760) 885-7255 Image: Cell No. (760) 885-7255 fed By Eric Barnes Image: Cell No. (760) 885-725 Image: Cell No. (760) 885-725 Image: Cell No. (760) 885-725 fed By Sample Identification Image: Cell No. (760) 895-725 </td <td></td> <td></td> <td></td>			
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Phelan Pinion Hills CSD Client Job No. · 4176 Warbler Rd. Phelan, CA 92371 Phelan, CA 92371 Destination Laboratory	[X] Geo-Monitor, Inc	Cell No.	Contact
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Phelan Pinion Hills CSD Client Job No. SS 4176 Warbler Rd.		Phelan, CA 92371	Ш. М.
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	2 2 2	Phelan Pinion Hills CSD	Client
	Chain of Custody	Gep-Wonitor, Inc.	G



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			•		rner Well - Step	o Test		Work Orde Received Reported	r: 16G0515 07/07/16 15:35 07/22/16
North West Corner Well - 1 hr 275 GPM		16G0515-01	l (Water)		Sample Date:	07/06/16	11:00	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	l Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.2	ug/L	2.0	10	07/18/16	07/19/16	1630012	2
Chromium (+3)	(CALC)	8.8	ug/L			07/15/16	07/21/16	(CALC	1
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	07/07/16	07/08/16	162841	L
Chromium (Total Low Level Cr)	SM 3113B	8.8	ug/L	1.0		07/15/16	07/21/16	1629399)
Chromium (Total Cr)	SM 3113B	ND	ug/L	10	50	07/15/16	07/15/16	162939	>
North West Corner Well - 2 hr 250 GPM		16G0515-02	2 (Water)		Sample Date:	07/06/16	12:00	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	i Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.2	ug/L	2.0	10	07/18/16	07/19/16	1630012	2
Chromium (+3)	[CALC]	2.2	ug/L			07/15/16	07/21/16	[CALC	
Chromium (+6)	EPA 218.6	ND	ug/L	0.1	0	07/07/16	07/08/16	1628414	ŀ
Chromium (Total Low Level Cr)	SM 3113B	2.2	ug/L	1.0		07/15/16	07/21/16	162939)
Chromium (Total Cr)	SM 3113B	ND	ug/L	10	50	07/15/16	07/15/16	162939	>
North West Corner Well - 4hr 240 GPM		16G0515-0	3 (Water)		Sample Date:	07/06/16	14:00	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	i Baich	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.3	ug/l.	2.0	10	07/18/16	07/19/16	163001	2
Chromium (+3)	[CALC]	0.0	սց/Լ			07/15/16	07/21/16	[CALC	1
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	07/07/16	07/08/16	•	
Chromium (Total Low Level Cr)	SM 3113B	ND	ug/L	1.0		07/15/16	07/21/16	162939)
Chromium (Total Cr)	SM 3113B	ND	ug/L	10	50	07/15/16	07/15/16	162939)
North West Corner Well - 6hr 225 FPM		16G0515-0	4 (Water)		Sample Date:	; 07/06/16	16:00	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	d Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4,3	ug/L	2.0	10	07/18/16	07/19/16	163001	2
() · · · · · · · · · · · · · · · · · ·		0.0	ug/L			07/15/16	07/21/16		
	ILALL								•
Chromium (+3)	[CALC] EPA 218.6		-	1.0	10	07/07/16	07/08/16	162841	4
	EPA 218.6 SM 3113B	ND ND	ug/L ug/L	1.0 1.0	10	07/07/16 07/15/16	07/08/16 07/21/16		

Page 1 of 2



Phelan Pinion Hills CSD 4176 Warbler Rd			Project: Project		mer Well - Ste	m Tect		Work Orde Received:	r: 16G0515 07/07/16 15:3
Phelan CA, 92371				Sean Wright	anet wen - Ste	p rest		Reported:	07/22/16
North West Corner Well - 10hr 215 GPM		16G0515-05	(Water)		Sample Date	: 07/06/16	20:00	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	i Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.2	ug/L	2.0	10	07/18/16	07/19/16	1630012	2
Chromium (+3)	[CALC]	0.0	ug/L			07/15/16	07/21/16	[CALC]	1
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	07/07/16	07/08/16		
Chromium (Total Low Level Cr)	SM 3113B	ND	ug/L	1.0		07/15/16	07/21/16	1629399	,
Chromium (Total Cr)	SM 3113B	ND	ug/L	10	50	07/15/16	07/15/16	1629399)
North West Corner Well - 14hr 200 GPM		16G0515-06	(Water)		Sample Date	: 07/07/16	12:00	Sampler:	Sean Wright
Алајуtе	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	l Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.2	ug/L	2.0	10	07/18/16	07/19/16	1630012	2
Chromium (+3)	[CALC]	0.0	ug/L			07/15/16	07/21/16	[CALC]	
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	07/07/16	07/08/16	1628414	
Chromium (Total Low Level Cr)	SM 3113B	ND	ug/L	1.0		07/15/16	07/21/16	1629399	
Chromium (Total Cr)	SM 3113B	ND	ug/L	10	50	07/15/16	07/15/16	1629399	
North West Corner Well - 18hr 196 GPM		16G0515-07	(Water)		Sample Date	: 07/07/16	4:00	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.1	ug/L	2.0	10	07/18/16	07/19/16	1630012	
Chromium (+3)	[CALC]	0.0	ug/L			07/15/16	07/21/16	[CALC]	
Chromium (+6)	EPA 218 6	ND	ug/l,	1.0	10	07/07/16	07/08/16	1628414	
Chromium (Total Low Level Cr)	SM 3113B	ND	ug/L	1.0		07/15/16	07/21/16	1629399	
Chromium (Total Cr)	SM 3113B	ND	ug/L	10	50	07/15/16	07/15/16	1629399	
North West Corner Well - 22hr 190 GPM		16G0515-08	(Water)		Sample Date	: 07/07/16	8:00	Sampler:	Sean Wright
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.4	ug/L	2.0	10	07/18/16	07/19/16	1630012	
Chromium (+3)	[CALC]	0.0	ug/L	1 C.	17	07/15/16	07/21/16	[CALC]	
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	07/07/16	07/08/16		
Chromium (Total Low Level Cr)	SM 3113B	ND	ug/L	1.0		07/15/16	07/21/16	1629399	
Chromium (Total Cr)	SM 3113B	ND	ug/L	10	50	07/15/16	07/15/16	1629399	
			-01-11	1000	1.35				

Bet Slaufy

Bob Glaubig

Laboratory Director

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Page 2 of 2

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Geo-M	Geo-Monitor, Inc.	Inc.		а 1 11 ²⁷		ñ		3	4	Cha	Chain of Custody	Cust	ody
17152 Darwin .	Ave Hesperia,	17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481	1481			98	34 OHUN	1					I
Client -	Phelan Pinion Hills CSD	Hills CSD	構築法	Client Job No.	b No.	A	nalys	sis F	Analysis Requested	pe	State Party	なないの	State State
Address	4176 Warbler Rd.	Rd.		star A	•	Ch	Ch		IN		2		
	Phelan, CA 92371	2371				rom	ron	seni	<u>[</u>]		י דער ארי		
Phone No.	(760) 868-1212	Fax No. (760) 868-23	23	Destination Laboratory	aborator	15741	niu		10.	7	₩ 9		
Contact	Sean Wright	Cell No. (760) 885-7255		[x] Geo-Monitor, Inc	tor, Inc	16	m 3		36	0	ر بر س		
System No.	-	3610120] Other:									
Project Name: Northwest Corner Well	forthwest Cori	-5129	Test						Din		<u>~</u>		
Sampled By		Scan Wright						-0	1~	2((<u>ې</u>		
Comments	219800	inves ct							2	i Gele Y	Ŀ		
2 Je a look	1	12	3						-	l to epc	10		
Date	御殿ないの	Sample Identification.	0 Matrix	No.	Pres. Type	e				<u>ل</u> م			
7/6/2016 1) Am		Northwest Corner Well -	1 Hr	1	1-n	X	×	X	X	275	- 5S4/3	355	
1.2		Northwest Corner Well - A	A HC	2	1. h	X	x	Х	N.	وكما	كركك	603	
+		Northwest Corner Well - 7		3	0-2	X	x	Х	X	240	1 555	ولاد	
7/6/2016 1 5 ~		Northwest Corner Well	ر ۲ د	4	· - ^.	N X	×	×	~	335	- I ISSK	it -	
7/6/2016 \$ 50			113 112.	5	14-1	<u>א</u> ר נ	×	Χ	×	215	225	3500	
7140 7/6/2016 12 AM		Northwest Corner Well -	- 14 4.2	9	ु	N N	×	×	×	202	2.2	5-4 40	
7/6/2016		Northwest Corner Well	125	7	~· - F1	x 2	×	×	×	2 6 1	5 5	528	
7/842016 \$ AM		Northwest Corner Well	8 - HC	8	ų-7	X	×	Х	×	1	555	7.78	
7/6/2016		Northwest Corner Well	4	6	1950	X	×	Х	×			,	_
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7/6/2016	Nort	Northwest Corner Well		11	W-W	x 7	×	X	4				
7/6/2016	North	Northwest Corner Well		12	-~-	х Х	X	X	4				
:S	(1) Na2S203 (3) Cold	bld	Sample	e Types: (1) Routine	Routine (2	(2) Repeat	at (3	Rep	(3) Replacement	(4) Special	I (W) Mell (I	(D) Distribution	n
(2) H	(2) H ₂ SO ₄ /HNO3 (4)		All tur	n around tim	es are expre	essed a	IS WOL	king (Jays / Not	all analyse:	2d a	ssed as rusi	-
Relinguished By (Sign)	d By (Sign)	Print Name / Company	Company		+ Date / Time	16	調査		Received Bp		Sign) Er	Print Name / Company	Compa
121	2	Sean Wright /PPHCSD	PPHCSD	7-7-11	~	46	5		5	X	1 T	Sectory	5 K.D
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Method [CALC] EPA 218.6	16G0567-0 Result	01 (Water) Units	Des Linch	Sample Da	te: 07/07/16	12:00 Sa	ampler: S	ean Wright
[CALC]	Result	Units	Des Linets					can wright
200			Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
200								
EPA 218.6	0.0	ug/L			07/15/16	07/21/16	[CALC]	
	ND	ug/L	1.0	10	07/08/16	07/12/16	1629033	
SM 3113B	ND	ug/L	1.0		07/15/16	07/21/16	1629399	
SM 3113B	ND	ug/L	10	50	07/15/16	07/15/16	1629399	
	16G0567-0	2 (Water)		Sample Da	te: 07/07/16	16:00 Sa	ampter: S	ean Wright
Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
[CALC]	0.0	սց/Լ			07/15/16	07/21/16	[CALC]	
EPA 218.6	ND	ug/L	1.0	10	07/08/16	07/12/16	1629033	
SM 3113B	ND	ug/L	1.0		07/15/16	07/21/16	1629399	
SM 3113B	ND	ug/L	10	50	07/15/16	07/21/16	1629399	
	16G0567-0)3 (Water)		Sample Da	te: 07/07/16	20:00 Sa	impler: S	ean Wright
Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
CALCI	0.0	up/L			07/15/16	07/21/16	[CALC]	
EPA 218.6	ND	-	1.0	10	07/08/16	07/12/16	1629033	
SM 3113B	ND	ug/L	1.0		07/15/16	07/21/16	1629399	
	ND	ug/L	10	50				
	[CALC] EPA 218.6 SM 3113B SM 3113B Method [CALC] EPA 218.6	[CALC] 0.0 EPA 218.6 ND SM 3113B ND SM 3113B ND 16G0567-0 Method Result [CALC] 0.0 EPA 218.6 ND SM 3113B ND	[CALC] 0.0 ug/L EPA 218.6 ND ug/L SM 3113B ND ug/L SM 3113B ND ug/L I6G0567-03 (Water) 16G0567-03 (Water) Method Result Units [CALC] 0.0 ug/L EPA 218.6 ND ug/L SM 3113B ND ug/L	[CALC] 0.0 ug/L EPA 218.6 ND ug/L 1.0 SM 3113B ND ug/L 1.0 SM 3113B ND ug/L 10 I6G0567-03 (Water) 10 16G0567-03 (Water) Method Result Units Rep. Limit [CALC] 0.0 ug/L 1.0 SM 3113B ND ug/L 1.0	[CALC] 0.0 ug/L EPA 218.6 ND ug/L 1.0 10 SM 3113B ND ug/L 1.0 50 SM 3113B ND ug/L 10 50 16G0567-03 (Water) Sample Data Method Result Units Rep. Limit MCL [CALC] 0.0 ug/L 1.0 10	[CALC] 0.0 ug/L 0.7/15/16 EPA 218.6 ND ug/L 1.0 10 07/08/16 SM 3113B ND ug/L 1.0 0 07/15/16 SM 3113B ND ug/L 10 50 07/15/16 16G0567-03 (Water) Sample Date: 07/07/16 Method Result Units Rep. Limit MCL Prepared [CALC] 0.0 ug/L 1.0 10 07/15/16	[CALC] 0.0 ug/L 07/15/16 07/21/16 EPA 218.6 ND ug/L 1.0 10 07/08/16 07/12/16 SM 3113B ND ug/L 1.0 07/15/16 07/21/16 SM 3113B ND ug/L 10 50 07/15/16 07/21/16 I6G0567-03 (Water) Sample Date: 07/07/16 20:00 Sa Method Result Units Rep. Limit MCL Prepared Analyzed [CALC] 0.0 ug/L 1.0 10 07/08/16 07/21/16	[CALC] 0.0 ug/L 07/15/16 07/21/16 [CALC] EPA 218.6 ND ug/L 1.0 10 07/08/16 07/12/16 1629033 SM 3113B ND ug/L 1.0 0 07/15/16 07/21/16 1629039 SM 3113B ND ug/L 10 50 07/15/16 07/21/16 1629399 I6G0567-03 (Water) Sample Date: 07/07/16 20:00 Sampler: Sample Date: Method Result Units Rep. Limit MCL Prepared Analyzed Batch [CALC] 0.0 ug/L 1.0 10 07/15/16 07/21/16 [CALC] EPA 218.6 ND ug/L 1.0 10 07/08/16 07/12/16 1629033

Bet Slaufy

Bob Glaubig Laboratory Director

Page I of 1

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026-1- 0/0/0		- (bothur	nalysis R	Ars Chi	eni rom	-	n 3	NLY	{					<; <;	×	×	*	X X X X	X X X X	X X X X	X X X X	×	×	×	21	peat (3) Replacement	d as working days / No	Received	EAN K.S	11		K	. <u>4</u> °C	er
2026.1		с. С.	Client Job No.	Cnr	om	Destination Laboratory	onitor, Inc					100 100 100 100 100	a l'i	12.1	3 9 5	0.2 C	4	S	9	7	8			11	I	Sample Types: (1) Routine (2) Repeat	ind times are expressed	Date / Time	7- 3-16/4	-8-1c/11/1		-	Receipt Temperature: 1)	[] Client [] Other
1 <u>1</u> 11	ra t		Clier	-		Destinati	[x] Geo-A	[] Other:						5	11 42	-IN Z 3	4	41					-	-		Sample Type	All turn arou	Company	/PPHCSD	Cru Z		Rec'd Date / Time:		ate [] UPS
•		17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481	Hills CSD	Rd.	92371	Fax No. (760) 868-2323	Cell No. (760) 885-7255	3610120	ner Well - 5 top rest	ight	6 2014	Swader got STUCK	1	۱Ì	Northwest Corner Well - Julin	Northwest Corner Well - 3/11	Northwest Corner Well	(3) Cold		Print Name / Com	Sean Wright /PPH	Lora Withma			Rec'd Intact Yes / No	[] Fed X [] Golden State								
2	Geo-Monitor, Inc.	Ave Hesperia, (Phelan Pinion Hills	4176 Warbler Rd	Phelan, CA 97	(760) 868-1212	Sean Wright		Vorthwest Cori		In Harse	60000						Nort	(1) Na 2 2 0 3 (3)	VO3 (ed By (Sign)					N								
C	Geo-M	17152 Darwin	Client	Address		Phone No.	Contact	System No.	Project Name: Northwest Corner Well	Sampled By	Comments	Vable to		7/7/2016 12 YN	7772016 4 P.	¥	1	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	-s:	-	Relingatshed By (Sign)				Rec'd at Lab By:	Rec'd on Ice Yes N	Shipped Via

125

DAIR	YNW	CORNER	WELL	-	ГГ		061	107	w:	210	Kč	3
	ORIGINAL File with DWR		WELL (COMPL	ruction Pamp	REPORT		DWR_USE		د ل		
	Owner's Well No	MEADOWBROOK		No.	e0078	193					L	NGTUDE
	Det Black Barren	9/5/08	Ended 9/25/08							1 10	- 38	a Li al E
	Local Permit A	PEOCY SAN BERNAR	DINO COUN	LT	<u>ma</u>				API	N/TRS/C	THER	
	Permit No. W	<u>GEOLOGIC</u>		Date 0/12				WELL ON	VNER			
					No.		VBROOK	DAIRY			_	
	ORIENTATION (1)		RIZONTAL A	NGLE		lailing Address	17900 Sł	IEEP CE	REEK	RD,	_	
	DEPTH FROM	METHOD REVERSE	SCRIPTION		<u> </u>	L-MIRAGE					UN CA	
	ELIREACE	Describe materi	al, grain, size,	color, etc.	Cri	Υ ·	v	7711. LO	CATI	DN	STA	TE ZP
	0 28	BROWN SAND			A	ddress 17900	SHEEP C	REEKRI	J			
	28 34	BROWN CLAY & SA				in, EL-MIRAGI	E CA 923	29				
	34 192	BROWN CLAY & SA	ND		C	ounty SAN BE	RNARDIN	0				
	190 202	CLAY				PN Book 457_	Page 15	51 F	arcel	10		
		MEDIUM BROWN S	ANS & CLAT	<u> </u>	To	wnship 6 N	- Range	<u></u> 5	ection	1,49_1	17 .3	5 35 W
	212 222	BROWN CLAY	AND & CLAY	-	L	atitude 34 34 DEG. N	IN 380	<u> </u>			TEG.	MIN, SEC
		MEDIUM BROWN S	AND & CLAT		27		ATION S	KETCH -				TIVITY (2)
		BROWN CLAY	ND			F1-1	NORTH "					EW WELL
	252 242	MEDIUN BROWN S		e <u>.</u>		2.1.			0	7		CATION/REPAIR
	242 465	BROWN SAND, RO	CKS & CLAY						11	1/2		Diner (Specily)
	465 576	BROWN SAND	0110 4 01 1			55				, İ		ESTREY (Describe
	<u>576</u> 617 617 645	XTRA HARD SAND	& ROCK			12		10		ALAT	Pr U	ESTROY (Deacribs rocedures and Materiats rider "GEOLOGIC LOG"
	0111 010					24 a			송.	PP		NED USES (/)
		····				100	\$					LSUPPLY amentic Public
		10			WEST	3				8	Z 17	igation Industrial
		1			5	•				- "1		MONITORING
]							TEST WELL
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				- +					}			DRECTPUSH
6		i				50 1						INJECTION
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1				<u> </u>			- воли -					SPARGING
					[]	Durante or Describe i	Summer of Fel	From Rocards. J. Una additional	protect i	3	o	THER (SPECIFY)
					i	ences, River, cm. and company. PLEASE #						
						WATER	R LEVEL	YTELD C	F CO	MPLE	TED V	AELL
						CEPTH TO FIRST V	VATER ?	(Fi.) BEI	.OW SI	URFACE		
						EPTH OF STATIC			1.00 A 01	050		
						ATER LEVEL						
	TOTAL DEPTH O	BORING 645 (Fe									กคม	
	TOTAL DEPTH O	F COMPLETED WELL 83				May not be repr	• •					
	DEPTH	BORE -	C/	ASING (S)		·····	DEF			Anne	TY	MATERIAL
	FROM SURFACE		MATERIAL /	INTERNAL	GAUGE	BLOT SIZE			ÇĘ-	BEN-	i i i i i i i i i i i i i i i i i i i	
	PL KO FL		GRADE	DIAMETER (Inches)	OR WALL	F ANY (Inches)	P. K	FL	MENT	TONIT		FILTER PACK (TYPE/SIZE)
									L)	(2)	(⊻)	
	0 40			34	<u></u>		53	<u>53</u> 645				
				16	.375		- 00					
	350 630	' <u> </u> [←]	STEEL			1.010.00						0.000
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				1								
		CHMENTS (2)				- CERTIFICA						
	🖉 🖌 Geolog	HC LOD	1, the undersit	aned, certify th	et this report is and imigation	complete and mount	its to the best (n my knowle	dge end	i balad		
		Construction Diagram ysical Log(s)	(PER	SON, FIRM, O	R CORPORATE	ON) (TYPED OR PR	NTED)					
		stor Chemical Anniyata	P.O. Box		1-1-	1.1	S	hafter			CA STATE	<u>93263</u>
	Other	NORMATION, FIT EXISTS.	- 11		110	Al-It		0	9/29/0		§	302148 C-57
(DWR INI REV 11-97		10/61	NEEDED A	SE NEXT CO	INSECUTIVELY N	UMBERED		TE SIG	0.0		5-57 LICENSE NUMBER
	DWA INE 845 * 11997	# AL/OIT	NALMON DALLAND IN									

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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: R Sub Project: T et Manager: E	itle 22				Work Orde Received: Reported:	I 15C2332 03/31/15 17:00 04/16/15
W Corner Well		15C2333-	01 (Water)		Sample Da	ute: 03/31/15	13:50	Sampler:	Dan Wyatt
Analyte	Method	Result	Units	Rep. Limit	MCL:	Prepared	Analyzed	Batch	Qualifier
field Analyses									
Temperature (Field)	Field	20.0	C			03/31/15	04 06 15	1514191	
General Physical Analyses									
Apparent Color	SM 2120B	ND	Color Units	3.0	15	03/31/15	03/31/15	1514309	1
Odor Threshold	EPA 140,1M	I	TON	13	3	03/31/15	03/31/15	1514309	
Turbidity	EPA 180-1	0.5	NTU	0.1	-5	03/31/15	03/31/15	1514309	
General Chemical Analyses									
	C14 3330 ()	50				d to che			
Alkalinity, Total (as CaCO3)	SM 2320 B	58	mg/L	.5.0		04/06/15	04/06/15	1514191	
Bicarbonate (HCO3)	SM 2320 B	71	ing L	5.0		04/06/15	04/06/15	[5]4[9]	
Carbonate (CO3)	SM 2320B LPA 300.0	ND 1.9	mg l.	5.0 1.0	500	04/06/15	04/06/15	1514191	
Chloride (Cl) Longolium Index at Source Time	SM 203	-0,40	ing/L	1.47	2440	04/02/15 03/31/15	04/02/15	1514433	
Langelier Index at Source Tmp	SM 203	0.21					03/31/15	1514191 1514191	
Langelier Index at 60 C	SM 203	U.41				03/31/15	03/31/15		
Aggressive Index Cumula (CNI)	SM4500CNF	ND	···· 1	100	150	03/31/15	03/31/15	1514191	
Cyanide (CN) Specific Conductories (E.C.)	SM 2510B	520	ugʻl. umhosʻcm	2,0	1600	04/03/15	04/03/15	1514462	
Specific Conductance (E.C.)	FPA 300.0	0.47		0.10		04/06/15	04/06/15	1514191	
Fluoride (F)	SM 2320B	ND	mgʻl,		2	03/31/15	04/01/15	1514190	
Hydroxide (OH) MBAS (LAS Mole, Wt 340.0)	SM 5540C	ND	mg/L	5.0 0.10	0.5	04/06/15 04/01/15	04/06/15	[51419]	
Nitrate (NO3)	EPA 300.0	ND	mg/L	2.0	45		04/01/15	1514212	
Nitrate (Nitrite (as N)	EPA 300.0	ND	mg/L og/L	400	45	03/31/15 03/31/15	04/01/15 04:01/15	1514190	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug L	400	1000	03/31/15	04/01/15	1514190	
Perchlorate (CIO4)	EPA 314.0	ND	ug 1.	4.0	6	03/31/15	04/01/15	1514130	
pli (Lab)	SM 450011B	7.9	plf Units	4,0	.,	03/31/15	03/31/15	1514[9]	
Sulfate (SO4)	EPA 300,0	690	mgLe	0.50	500	03/31/15	04.01/15	1514190	
Total Filterable Residue/TDS	SM 2540C	330	mg L	5.0	1000	04/01/15	04 06 15	1514222	
letals									
Aluminum (Al)	EPA 200.7	ND	og/L	50	200	04/07/15	04/07/15	1515144	
Antimony (Sb)	SM3113-B	ND	ug L	6.0	6	04/01/15	04/01/15	1514204	
Arsenic (As)	SM3113-B	3.2	ugʻi.	2.0	10	04.03/15	04/03/15	1514443	
Barium (Ba)	EPA 200.7	ND	ug I.	100	1000	04/07/15	04/07/15	1515144	
Beryllium (Be)	EPA 200.7	ND	ng L	1.0	4	04/06/15	04/06/15	1515064	
Boron (B)	EPA 200-7	ND	ng L	100		04:07/15	04/07/15	1515144	
Cadmium (Cd)	EPA 200.7	ND	ng L	1.0	5	04/06/15	04/06/15	1515004	
Calcium (Ca)	EPA 200.7	23	ing L	1.0		04/02/15	04/02/15	1514332	
Chromium (+6)	EPA 218.6	ND	ug L	1.0	10	03/31/15	04/01/15	1514039	
Chromium (Total Cr)	EPA 200.7	ND	tig/L	Đ	50	04/06/15	04/06/15	1515064	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	04/07/15	04/07/15	1515144	
fron (Fe)	EPA 200.7	160	ug/L	100	300	04/07/15	04:07:15	1515144	
Lead (Pb)	SM3113-B	NĐ	ug/1.	5.0		04/06/15	04:07:15	1515083	

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Phelan Pinion Hills CSD		<u>^</u>	Project					Work Orde	
4176 Warbler Rd			ib Project:					Received:	03/31/15 17:00
Phelan CA. 92371		Project	Manager	Ernesto Araiz	3			Reported:	04/16/15
NW Corner Well		15C2333-0	l (Water)		Sample Dat	te: 03/31/15	13:50	Sampler:	Dan Wyatt
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyze	d Baich	Qualifier
Metals									
Magnesium (Mg)	EPA 200.7	2.6	ing/L	1.0		04/02/15	04/02/15	1514332	1
Manganese (Mn)	EPA 200.7	ND	ug L	20	50	04/07/15	04 07/15	1515144	•
Mercury (Hg)	EPA 245.1	ND	ug.L	1.0	2	04/10/15	04/14/15	1515603	6
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	04/06/15	04/06/15	1515064	Ļ
Potassium (K)	EPA 200.7	2.8	ing/L	1.0		04/02/15	04:02/15	1514332	2
Selenium (Se)	SM3113-B	ND	ug L	5,0	50	04/01/15	04/01/15	1514210	1
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	04/06/15	04/06/15	1515064	
Sodium (Na)	EPA 200.7	81	ing 1.	1.0		04/02/15	04/02/15	1514332	
Thallium (Tl)	EPA 200,9	ND	ug/ti	1.0	2	04/06/15	04/06/15	1515032	1
Vanadium (V)	EPA 200.9	21	ug/t;	3,0		04/06/15	04/06/15	1515031	
Zine (Zn)	EPA 200.7	ND	սցՎ	50	5000	04/07/15	04:07/15	1515144	
Anion / Cation Balance									
Hardness, Total (as CaCO3)	Culculated	68	mg/L			04/02/15	04/02/15	[CALC]	
Total Anions	Calculated	5.19	ineq"L			04/02/15	04/06/15	[CALC]	
Total Cations	Calculated	4,96	meq4.			04/02/15	04/02/15	[CALC]	
% difference	Calculated	4.6				04/02/15	04/06/15	[CALC]	
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	5.8	pCi/L	3.0	15	04/03/15	04/07/15	1514437	GA-01
Gross Alpha Counting Error	EPA 900.0	1.7	pCi/L			04/03/15	04/07/15	1514437	
Gross Alpha Min Det Activity	EPA 900.0	1.2	pCi/L			04/03/15	04/07/15	1514437	
blatile Organic Analyses									
Vinyl Chloride (VC)	EPA 524.2	ND	ug/L	0.50	0.5	04/06/15	04/06/15	1515069	1
Trichlorofluoromethane (FREON 11)	EPA 524.2	ND	ug/L	5.0	150	04/06/15	04/06/15	1515069	•
1.1-Dichloroethylene (1.1-DCE)	EPA 524.2	ND	ug/L	0.50	6	04/06/15	04/06/15	1515069	•
1.1.2-Trichloro-1.2.2-trifluoroethane	EPA 524.2	ND	ug/L	10	1200	04/06/15	04/06/15	1515069	•
Dichloromethane (Methylene Chloride)	EPA 524 2	ND	ug/L	0.50	5	04/06/15	04/06/15	1515069	÷
trans-1.2-Dichloroethylene (t-1,2-DCE)	EPA 524-2	ND	ug/L	0.50	10	04:06/15	04/06/15	1515069	ł
Methyl tert-Butyl Ether	EPA 524.2	ND	ug/L	3.0	13	04/06/15	04/06/15	1515069	
1,1-Dichloroethane (1,1-DCA)	EPA 524.2	ND	ug/L	0.50	5	04/06/15	04:06:15	1515069	
cis-1.2-Dichloroethylene (c-1,2-DCE)	EPA 524.2	ND	ug/L	0.50	6	04/06/15	04/06/15	1515069	
Chloroform (Trichloromethane)	EPA 524.2	ND	ug/L	1.0		04/06/15	04/06/15	1515069	
Carbon Tetrachloride	EPA 524.2	ND	ug/L	0.50	0.5	04:06:15	04/06:15	1515069	
1,1,1-Trichloroethane (1,1,1-TCA)	EPA 524.2	ND	ug/L	0.50	200	04:06/15	04/06/15	1515069	
Benzene	EPA 524.2	ND	ug/L	0.50	I	04/06/15	04/06/15	1515069	
1.2-Dichloroethane (1.2-DCA)	EPA 524.2	ND	ug/L	0.50	0.5	04/06/15	04/06/15	1515069	
Trichloroethylene (TCE)	EPA 524.2	ND	ug/L	0.50	5	04:06/15	04/06/15	1515069	
1.2-Dichloropropane	EPA 524.2	ND	ug/L	0.50	5	04/06/15	04/06/15	1515069	
Bromodichloromethane	EPA 524.2	ND	ug/U	1.0		04/06/15	04/06/15	1515069	
Toluene	EPA 524.2	ND	ug/L	0.50	150	04/06/15	04/06/15	1515069	

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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA. 92371			Project: 1 b Project: 7 Manager: 1		a				15C2333 03/31/15 17:00 04/16/15
NW Corner Well		I5C2333-0	l (Water)		Sample Dat	e: 03/31/15	13:50	Sampler: Da	in Wyatt
Analyte	Method	Result	Units	Rep. Linut	MCL	Prepared	Analyze	d Batch	Qualifier
<u>Volatile Organic Analyses</u>									
Tetrachloroethylene (PCE)	EPA 524.2	ND	ug/L	0.50	5	04/06/15	04/06/15	1515069	
1.1.2-Trichloroethane (1.1.2-TCA)	EPA 524.2	ND	ug/L	0.50	5	04/06/15	04/06/15	1515069	
Dibromochloromethane	EPA 524.2	ND	ug/L	1.0		04/06/15	04/06/15	1515069	
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	ug/L	0.50	70	04/06/15	04/06/15	1515069	
Ethyl Benzene	EPA 524.2	ND	ug/L	0.50	300	04/06/15	04/06/15	1515069	
m.p-Xylene	EPA 524.2	ND	ug/L	1.0		04/06/15	04/06/15	1515069	
cis-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50		04/06/15	04/06/15	1515069	
o-Xylene	EPA 524.2	ND	ug/L	0.50		04/06/15	04/06/15	1515069	
trans-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50		04/06/15	04/06/15	1515069	
Styrene	EPA 524.2	ND	սը/է	0.50	100	04/06/15	04/06/15	1515069	
Bromoform	EPA 524.2	ND	ug/L	1.0		04/06/15	04/06/15	1515069	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50		04/06/15	04/06/15	1515069	
1.4-Dichlorobenzenc (p-DCB)	EPA 524.2	ND	ug/L	0,50	5	04/06/15	04/06/15	1515069	
1.2-Dichlorobenzene (o-DCB)	EPA 524.2	ND	ug L	0.50	600	04/06/15	04/06/15	1515069	
1.2.4 Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	5	04/06/15	04/06/15	1515069	
Total 1.3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.5	04/06/15	04/06/15	1515069	
Total Trihalomethanes (TTHM)	EPA 524.2	ND	ug/L	1.0	80	04/06/15	04/06/15	1515069	
Total Xylenes (m.p & o)	EPA 524.2	ND	ug/L	0.50	1750	04/06/15	04/06/15	1515069	
Surrogate: Bromofluerschenzene	EPA 524.2	88 ".,				04/06/15	04/06/15	1515069	
Surregate: 1.2-Dichlorubenzene-d4	EP4 524.2	85 ".				04/06/15	04/06/15	1515069	
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug.1.	0.020	0.05	04/06/15	04/06/15	1513521	
Dibromochloropropane (DBCP)	EPA 504.1	ND	ug L	0.010	0.2	04/06/15	04/06/15	1513521	
Semi-Volatile Organic Analyses									
Endrin	EPA 508.1	ND	ug 1	0.10	2	04/02/15	04/07/15	1514428	
Lindane (gamma-BHC)	EPA 508.1	ND	ug/L	0.20	0.2	04/02/15	04/07/15	1514428	
Methoxychlor	EPA 508.1	ND	ug/1,	10	30	04/02/15	04/07/15	1514428	
Toxaphene	EPA 508.1	ND	ug L	1.0	3	04/02/15	04/07/15	1514428	
Chlordane	EPA 508.1	ND	ug L	0.10	0.1	04/02/15	04/07/15	1514428	
Heptachlor	EPA 508.1	ND	ug/1	0.010	0.01	04/02/15	04/07/15	1514428	
Heptachlor Epoxide	EPA 508.1	ND	ug/L	0.010	0,01	04/02/15	04/07/15	1514428	
Hexachlorobenzene	EPA 508.1	ND	ug/L	0.50	1	04/02/15	04/07/15	1514428	
Hexachlorocyclopentadiene	EPA \$08.1	ND	ug/L	1.0	50	04/02/15	04/07/15	1514428	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	ug/L	0.50	0.5	04/02/15	04/07/15	1514428	
Surregate: Dibut Ichlorendate	EPA 308 1	105 ***				04/02/15	04/07/15	1514428	
Dalapon	EPA 515.4	ND	ug I.	10	200	04/06/15	04/07/15	1515026	
2.4.5-TP (SILVEX)	EPA 515.4	ND	ug/L	1.0	50	04/06/15	04/07/15	1515026	
Bentazon (BASAGRAN)	EPA 515.4	ND	սց Ղ.	2.0	18	04/06/15	04/07/15	1515026	
Picloram	EPA 515.4	ND	ug/L	1.0	500	04/06/15	04/07/15	1515026	
2,4-D	EPA 515.4	ND	ug/f	10	70	04/06/15	04/07/15	1515026	

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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project b Project Manager		a			Work Order Received: Reported:	: 15C2333 03/31/15 17:00 04/16/15
W Corner Well		15C2333-0	l (Water)		Sample Date	: 03/31/15	13:50 S	ampler: I	Dan Wyatt
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Semi-Volatile Organic Analyses									
Pentachlorophenol (PCP)	EPA 515-4	ND	ug-L.	0,20	I	04/06/15	04/07/15	1515026	
Dinoscb (DNBP)	EPA 515.4	ND	ug-L	2.0	7	04/06/15	04/07/15	1515026	
Surregate: 2,4-Dichlorophenylacetic acid	EPA 515.4	95 "				04/06/15	04/07/15	1515026	
Alachlor (ALANEX)	EPA 525.2	ND	ug/L	1.0	2	04/03/15	04/04/15	1514440	
Atrazine (AATREX)	EPA 525.2	ND	ug"L	0.50	1	04/03/15	04/04/15	1514440	
Benzo(a)pyrene	EPA 525.2	ND	ug/L	0,10	0.2	04/03/15	04/04/15	1514440	
Diethylliexylphthalate (DEHP)	EPA 525.2	ND	ug/L	3.0	4	04/03/15	04/04/15	1514440	
Di(2-cthylhexyl) adipate	EPA 525.2	ND	ug/L	5.0	400	04/03/15	04/04/15	1514440	
Molinate (ORDRAM)	EPA 525.2	ND	սց/ե	2.0	20	04/03/15	04/04/15	1514440	
Simazine (PRINCEP)	EPA 525.2	ND	ug/L	1.0	4	04/03/15	04/04/15	1514440	
Thiobencarb (BOLERO)	EPA 525.2	ND	ug'l.	1.0	70	04/03/15	04/04/15	1514440	
Surregate 1.3-dimethyl-2-mitrobenzene	EP4 525 2	87 %				04/03/15	04/04/15	1514440	
Surrogate: Perylene-d12	EPA 525.2	62 ""				04/03/15	04/04/15	1514440	S-GC
Surrogote: Triphenylphosphate	EPA 525 2	117 ""				04/03/15	04/04/15	1514440	
Oxamyl (VYDATE)	EPA 531-1	ND	ug/L	20	50	04/05/15	04/08/15	1515003	
Carbofuran (FURADAN)	EPA 531-1	ND	ug/l	5.0	18	04/05/15	04/08/15	1515003	
Glyphosate	EPA 547	ND	ug/L	25	700	04/02/15	04/02/15	1515002	
Endothall	EPA 548-1	ND	ug.1.	45	100	04/06/15	04/08/15	1515023	

GA-01 This sample has a gross alpha + 0.84 counting error result greater than 5 pCrI. This high result will often trigger additional analyses such are uranium or tadiuth. Please contact us should you need further analysis.

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time-

Analyte NOT DETECTED at or above the reporting limit ND

Bet Slaufy

Bob Glaubig Laboratory Director

Page 4 of 4



LA Testing

520 Mission Street South Pasadena, CA 91030 Phone/Fax: (323) 254-9960 / (323) 254-9982 http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 321507191 32CLIN51 Customer ID: Customer PO: Project ID:

Attn	Bob Glaubig	Phone:	(909) 825-7693	
	Clinical Laboratory of San Bernardino	Fax:	. ,	
	PO BOX 329	Collected:	03/31/2015	
	San Bernardino, CA 92402	Received:	04/01/2015	
		Analyzed:	04/10/2015	
Proj:	15C2333			

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

					ASBESTOS						
Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol Filtered	Effective Filter Area	Area Analyzed	Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits		
		(ml)	(mm²)	(mm²)			MFL	(million fibers per	liter)		
NW Comer Well/15C233	4/2/2015	100	1288	0.0695	None Detected	ND	0.19	<0.19	0.00 - 0.68		
321507191-0001	11:50 AM						0.19	×0.19	0.00 - 0.08		

Analyst(s) Sherrie Ahmad (1)	De
	Jerry Drapala Ph.D, Laboratory Manager
Any questions please contact Jerry Drapala.	or Other Approved Signatory

Initial report from: 04/10/2015 13:34:47

Any

Sample collection and containers provided by the client, acceptable bottle blank level is defined as \$0.01MFL>10um ND=None Detected. This report relates only to those items tested This report may not be reproduced, except in full, without written permission by LA Testing. Samples received in good condition unless otherwise noted

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

Test Report: TEM100.2-7.31.1 Printed: 4/10/2015 01:34PM

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15C2333

SNDING LABORATORY:	RECEIVING LABORATORY:	
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Bob Glaubig	LA Testing 520 Mission Street South Pasadena, CA 91030 Phone :(323) 254-9960 Fax: (323) 254-9982	321507191
Please email results to Project Manager: Bob Glaubig [] glaubig@clinical-lab.com [] glenncy@clinical		
California EDT transfer those samples with PS Transfer File requested; log in with Element II UCMR 3 CDX Transfer		
Turn Around Time [10 Days [] 5 Days Subcontract Comments:	[] Other Days	
Analysis		Comments
Sample ID: NW Corner Well / 15C2333-01		'X ID: MR ID:
Asbestos EPA 100.2		······································
Containers Supplied:		

I Quart Plastic (J)

(0.9°C/2-1-15

04/01/15 07:45 Date / Time <u>4-1-15 10:00</u> Date / Time Chris II 9-1-15 12:40pm <u>4-1-15/1</u> Date //Time 12:37 Released eceived By

Page 1 Of 1

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WECK LABORATORIES, INC

Analytical laboratory Service - Since 1961

Certificate of Analysis

Project: 15C2333

Attn: Bob Glaubig

Client: Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313

Dear Bob Glaubig :

Enclosed are the results of analyses for samples received 4/1/2015 with the Chain of Custody document. The samples were received in good condition, at 3.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 5D01022-01 Sampled by: Client	Sample i Sampled			Well / 15C2	2333-01				Ма	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
2,3,7,8-TCDD (Dioxin)	ND		5.00	pg/l	1	EPA 1613B	4/2/15	4/15/15 19:28	W5D0063	
Diqual	ND		4.0	ug/l	1	EPA 549-2	4/7/15	4/8/15 13:14	W5D0300	

5D01022



Analysical Laborates y Seavice - Since 1961

Certificate of Analysis

Quality Control Section

Diquat and Paraquat by EPA 549.2 - Quality Control

Batch W5D0300 - EPA 549.2

Blank (W5D0300-BLK1)					Prepared: 04,	/07/15 A	nalyzed: 08/04	4/15 12:52	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat		ND		ug/l					53
LCS (W5D0300-BS1)					Prepared: 04	/07/15 A	nalyzed: 08/04	4/15 12:56	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat		15.9		ug/l	20.0	80	48-130		-
Matrix Spike (W5D0300-MS1)	s	ource: 5D0101	3-01		Prepared: 04	/07/15 A	nalyzed: 08/04	4/15 13:48	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat		14.3		ug/l	20.0	72	46-122		
Matrix Spike Dup (W5D0300-MSD1)	s	ource: 5D0101	3-01		Prepared: 04,	/07/15 A	nalyzed: 08/04	/15 13:53	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	15.0		ug/l	20.0	75	46-122	5	30

Semivolatile Organics - Low Level by Tandem GC/MS/MS - Quality Control

Batch W5D0063 - EPA 1613B

Blank (W5D0063-BLK1)					Prepared: 04	/02/15 An	alyzed: 04/15	6/15 18:02	_
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		ND		pg/l					
LCS (W5D0063-BS1)					Prepared: 04	/02/15 An	alyzed: 04/15	5/15 18:23	
Analyte	Sample Result	QC <u>Result</u>	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		2.73		pg/l	5.00	55	50-148		
LCS Dup (WSD0063-BSD1)					Prepared: 04	/02/15 An	alyzed: 04/15	/15 19:07	- 2
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7 8-TCDD (Dioxin)		2.83		pg/l	5.00	57	50-148	4	20



Page 2 of 3

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Analytical Lalaoratory Service - Since 1954

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

 ND
 NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method

 Detection Limit (MDL).
 Detection Limit (MDL).

 Jub
 Subcontracted analysis, original report enclosed.

 DL
 Method Detection Limit

 RL
 Method Reporting Limit

 MDA
 Minimum Detectable Activity

 NR
 Not Reportable

- 5D01022

Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15C2333

5D01022

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Bob Glaubig	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745 Phone :(626) 336-2139 Fax: (626) 336-2634
Please email results to Project Manager: Bob Glaubig Vglaubig@clinical-lab.com [] glenney@clinica	
California EDT transfer those samples with P Transfer File requested; log in with Element I UCMR 3 CDX Transfer	S codes provided [] Yes [v] No
Turn Around Time [1] TO Days [] 5 Days Subcontract Comments:	[] Other Days
Analysis	Comments
Sample ID: NW Corner Well / 15C2333-01	Sampled: 03/31/15 13:50 PS Code: Water WTX ID: UCMR ID:
549 Diguat	
1613 Dioxins	

Containers Supplied:

1 L Plastic (V)

L L Amber Glass (W) 1 L Amber Glass (X)

39

04/01/15 07:45 Date / Time 4-1-15 / 10:00 Date / Time Received B 4/1/11 Date / Time <u>4-1-15</u> Date / Time 1125 1125 Received By

res Bacti / GP / Other WO 737-7300	Turn Around Time (TAT) Comments		7 - Eby 1913 7 - Eby 1913 1 - Eby 243 8 - Studge 0 0 1 - Eby 243 0 1 - Eby 243 0 1 - Eby 241 1 1 - Eby 243 1 1 - Eby 243 1 1 - Eby 241 1
# ef containers V : 805 73;	Dioxin	×	2 - EPA 1613 amber 1 - EPA 549 amber 1 - EPA 549 amber 1 - EPA 549 amber
# et Contain 805	Diquat Diquat Glyphosate / Endothall	 ×	1 - EPA 549 amber 1 - EPA 548 amber 1 - EPA 548 amber
С <i>иЅt</i> очу с сд 93436 8	Glyphosate / Endothall	×	
St. 93	Carbamate Pesticide	×	
S S S	.9 Carbamate Pesticide DEHP/DEHA/PAH/Triazine	×	
of (Chlor. Pesticide / Herbicide	×	1 - EPA 508 anıber / 1 - EPA 515 ambe - 2 - EPA 524 vials / 2 - EPA 504 vials
n of C Lompoc	Volatile Organic / EDB, DBCF	+ +	1 - EPA 508 antber / 1 - EPA 515 ambe - 2 - EPA 524 vials / 2 - EPA 504 vials 1 - 1/2 gallon plastic / 1 - quart plastic
air St	Gross Alpha / Asbestos	×	1 - 1/2 gallon plastic / 1 - quart plastic
2	Inorganic Chemical / Gen Phy		I - pint plastic / I - gen phys glass I - 1/2 gallon plastic
M N	Gen Min / Corrosivity / Cr+6 Total Containers	× 61	1 - 1/2 gailon plastic
10C. 11C. 125-7693 / 516-A N 8th St. Lompoc	ChlorAC	-	1 - 1/2 gallon plastic / 1 - quart plastic 1 - 1/2 gallon plastic / 1 - gen phys glass 1 - 1/2 gallon plastic 1 - 1/2 gallon plastic 1 - 1/2 gallon plastic
	Destination Laboratory Destination Laboratory A Clinical Grand Terrace / ELAP 1088 M Clinical Lompoc / ELAP 1678 M Clinical Lompoc / ELAP 16788 M Clinical Lompoc / ELAP 16788 M Clinical	-	315 Wk
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ardino 92313 90	Destination Laborato Destination Laborato A Clinical Grand Terrace / ELAP HOP HOP I Other: I Other: No of Preserved C Samble Type Samble Type Matrix		A Surface Water Surface Water Surface water A 3-Replacement A A A C C C C C C C A C A C A C C C C C C C C C C C C C C C C C C C C C C C C C C C
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CA	Container ID.		Inking Water GW - Ground Water SW - inking Water GW - Ground Water SW - amples / Sample Type: 1-Routine 2-Repea 1 By (Sign)
B C B C B C	Phelow Pure Hils CSD 16 Warbler Red. 60 (237) FRANCTO RATZA FRANCTO RATZA 56(E-121) FAXNO(760) 86(E 2) 76(12) 710122 76(12) 77 0(20) 77 0(20) 7000 120 710120 7001200 7001200 7001200 7001200 7001200 7001200 7001200 7000		d Water S د Name Z-R V VVn T v بن الم
n I Ter	catio	1.22	- Ground Wat Vpe: 1-Routine Vpe: 1-Routine Solden State C
Sa	41 2. 2. 14 14 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		V-Groun V-Groun V-Groun V-Groun Colden S Golden S Golden S
of Sera	Elan Puru Hils C Wardbler Rd. (a) 92371 (a) 92371 (a) 92371 (a) 920 LOL20 e21 Vel LUNAL DENTW26K03 USE(15 USE(15 Sample Identification	Corner	king Water GW - Ground Wa mples / Sample Type: 1-Routine By (Sign) - Sample Type: 1-Routine By (Sign) - Sample Type: 1-Routine Dy (Sign) - Sample Type 1 - Type - State - Stat
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Clinical Lab of San Bern 21881 Barton Road Grand Terrace CA		150 24	trix: DW-Drinking Water GW-Ground Water SW- trix: DW-Drinking Water GW-Ground Water SW- e for Bacteria Samples / Sample Type: 1-Routine 2-Repe Relinquishr 2 By (Sign) Semple Type: 2-N L Semple Type Type: 1-Routine 2-Repe
ini 1881	t ess: 4/17 ドゴー ド Contact: e Noc7bo) en No.: 5 field By: 1 nents: TD nents: TD		
° C	Client $7h \leq cu u_{u_{u_{u_{u_{u_{u_{u_{u_{u_{u_{u_{u_{u$	ञीदिङ	Matrix: DW-Drinking Water GW- Ground Water SW- Surface Water Water: DW-Drinking Water GW- Ground Water Swift Samples / Samples / Sample 1. Revolution: 2. Repeated 3. Replacement Refinquish: 4 By (Sign) Exclaime K Company Free Refinquish: 4 By (Sign) Exclaime K Company Free Shipped Via: [] Fed Ex [] Golden State Overnight [] UPS [Condition: [] On Wet Ice [J Con Blu Ice K Antact [] Custoo Receipt Comments:
		<u>M</u> 1	



Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			Project: F b Project: E Manager: E	Dairy Wells					er: 13A1324 01/16/13 17:2 01/30/13
Northwest Corner Well (NIS)		13A1324	-03 (Water)	Sample I	Date: 01/16/13	9:50	Sampler:	Brian Gerke
Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyze	d Batch	Qualifier
Field Analyses									
Cl Res (Field)	Field	0	mg/L			01/16/13	01/16/13	1303297	
General_Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	57	mg/L	5.0		01/18/13	01/18/13	1303381	
Bicarbonate (HCO3)	SM 2320 B	70	mg/L	5.0		01/18/13	01/18/13		
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13		
Chloride (Cl)	EPA 300.0	2.8	mg/L	1.0	500	01/21/13	01/21/13		
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	01/21/13	01/21/13		
Specific Conductance (E.C.)	SM 2510B	520	umhos/cm		1600	01/18/13	01/18/13		
Fluoride (F)	EPA 300.0	0.46	mg/L	0.10	2	01/17/13	01/17/13		
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0	-	01/18/13	01/18/13		
MBAS (LAS Molc. Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.5	01/17/13	01/17/13		
Nitrate (NO3)	EPA 300.0	ND	ing/L	2.0	45	01/17/13	01/17/13		
Nitrate + Nitrite (as N)	EPA 300.0	ND	ug/L	400	10000	01/17/13	01/17/13		
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	01/17/13	01/17/13		
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	01/22/13	01/22/13		
oH (Lab)	SM 4500HB	8.2	pH Units			01/17/13	01/17/13		
Sulfate (SO4)	EPA 300.0	180	mg/L	0.50	500	01/17/13	01/17/13		
Total Filterable Residue/TDS	SM 2540C	330	mg/L	5.0	1000	01/18/13	01/21/13		
letals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	01/24/13	01/24/13	1304242	
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	01/18/13	01/18/13		
Arsenic (As)	SM3113-B	3.1	ug/L	2.0	10	01/23/13	01/23/13		
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	01/24/13	01/24/13		
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	01/23/13	01/23/13		
Boron (B)	EPA 200.7	ND	ug/L	100		01/24/13	01/24/13		
Cadmium (Cd)	EPA 200,7	ND	ug/L	1.0	5	01/23/13	01/23/13		
Calcium (Ca)	EPA 200.7	23	mg/L	1.0		01/22/13	01/22/13		
Chromium (Total Cr)	EPA 200.7	ND	ug/L	10	50	01/23/13	01/23/13	1304135	
Copper (Cu)	EPA 200.7	ND	ug/L	50	1000	01/24/13	01/24/13	1304242	
ron (Fe)	EPA 200.7	ND	ug/L	100	300	01/24/13	01/24/13	1304242	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		01/24/13	01/24/13	1304214	
Magnesium (Mg)	EPA 200.7	2.4	mg/L	1.0		01/22/13	01/22/13	1304032	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	01/24/13	01/24/13	1304242	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	01/16/13	01/18/13	1303268	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	01/23/13	01/23/13	1304135	
Potassium (K)	EPA 200.7	2.8	mg/L	1.0		01/22/13	01/22/13	1304032	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	01/18/13	01/18/13	1303403	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	01/23/13	01/23/13	1304135	
Sodium (Na)	EPA 200.7	81	mg/L	1.0		01/22/13	01/22/13	1304032	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	01/18/13	01/18/13	1303392	

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Phelan Pinion Hills CSD 4176 Warbler Rd Phelan CA, 92371			-	Routine Dairy Wells Ernesto Ara			F		: 13A1324 01/16/13 17:2: 01/30/13
Northwest Corner Well (NIS)		13A1324	-03 (Wate	r)	Sample I	Date: 01/16/13	9:50 Sa	mpler: B	rian Gerke
Analyte	Method	Result	Units	Rep Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									2
Vanadium (V)	EPA 200.9	19	ug/L	3.0		01/18/13	01/18/13	1303390	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	01/24/13	01/24/13	1304242	
Anion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	66	mg/L			01/22/13	01/22/13	[CALC]	
Total Anions	Calculated	5	mcq/L			01/22/13	01/21/13	[CALC]	
Total Cations	Calculated	4.94	mcq/L			01/22/13	01/22/13	[CALC]	
% difference	Calculated	1.1				01/22/13	01/21/13	[CALC]	

Page 6 of 14

Option 2

The District installed 5,500 feet of 12" DI350 Ductile Iron transmission line to service the production capacity from the recently drilled Well 15. Using known water quality and production capabilities, the area South by Southwest of Well 15 is a good candidate to drill Well 18, utilizing the newly installed turnout located at South Rd and Azalea Rd minimizing the amount of transmission line needed to service the new well to +/-4,000 feet with isolation valves (4) and hydrants (4). The necessary transmission pipeline of 8" DR 18 can be installed using equipment the district owns and operates. No rental equipment is necessary for this option. This area is known to produce between 600-800 gallons per minute.

Well 15 will serve as the template for depth, construction, and materials. Using this analog, the cost to drill the pilot hole, ream, and case is \$1,100,000. An additional \$480,000 is required to equip the well with a pump, motor, and variable frequency drive. SCADA to provide telemetry is \$50,000.

FISCAL IMPACT

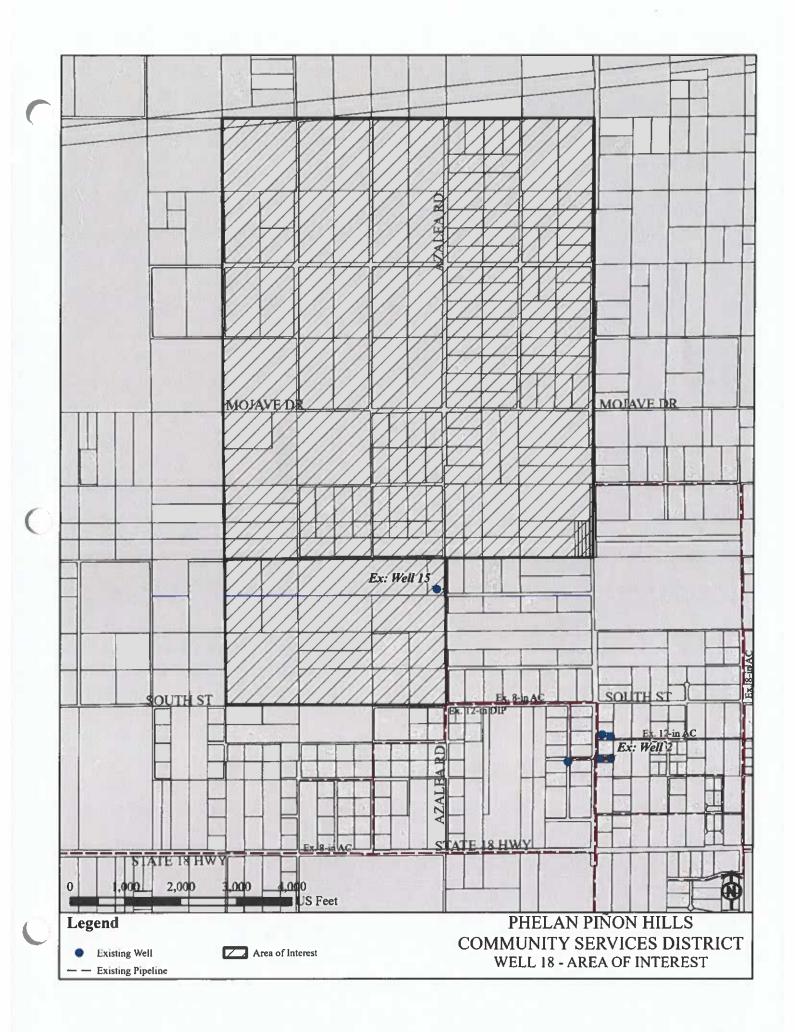
8" DR 18 Pipeline to Service Well: \$138,328 Outfitting of well: \$300,000 - \$500,000 Drilling of Well: \$1,100,000 SCADA: \$50,000 CEQA: \$20,000 Property Acquisition: TBD **Total Estimate: \$ 1,608,328 - \$1,808,328**

Budgeted:

FY-23/24: \$100,000 FY-24/25: \$2,000,000

ATTACHMENT(S)

Proposed Area of Interest Map



Option 3

During the planning phase of Well 15, a backup plan was developed and CEQA was completed on the Districts 40-acre parcel housing the fill station and the future Well 16 should Well 15 have been a failure. No transmission pipeline is necessary as there is a 10" Asbestos-Concrete distribution main capable of servicing Reservoirs 1A & 1C much as Well 8 currently does, when Reservoir 1A fills the altitude valve closes, and the water is moved East to Reservoir 1C.

Analyzing the available geotechnical data, and knowing production capabilities in the area by Well 8, this area is the least desirable in terms of water production. Staff estimates this area will yield between 300-500 gallons per minute.

Well 15 will serve as the template for depth, construction, and materials. Using this analog, the cost to drill the pilot hole, ream, and case is \$1,100,000. An additional \$480,000 is required to equip the well with a pump, motor, and variable frequency drive. SCADA to provide telemetry is \$50,000.

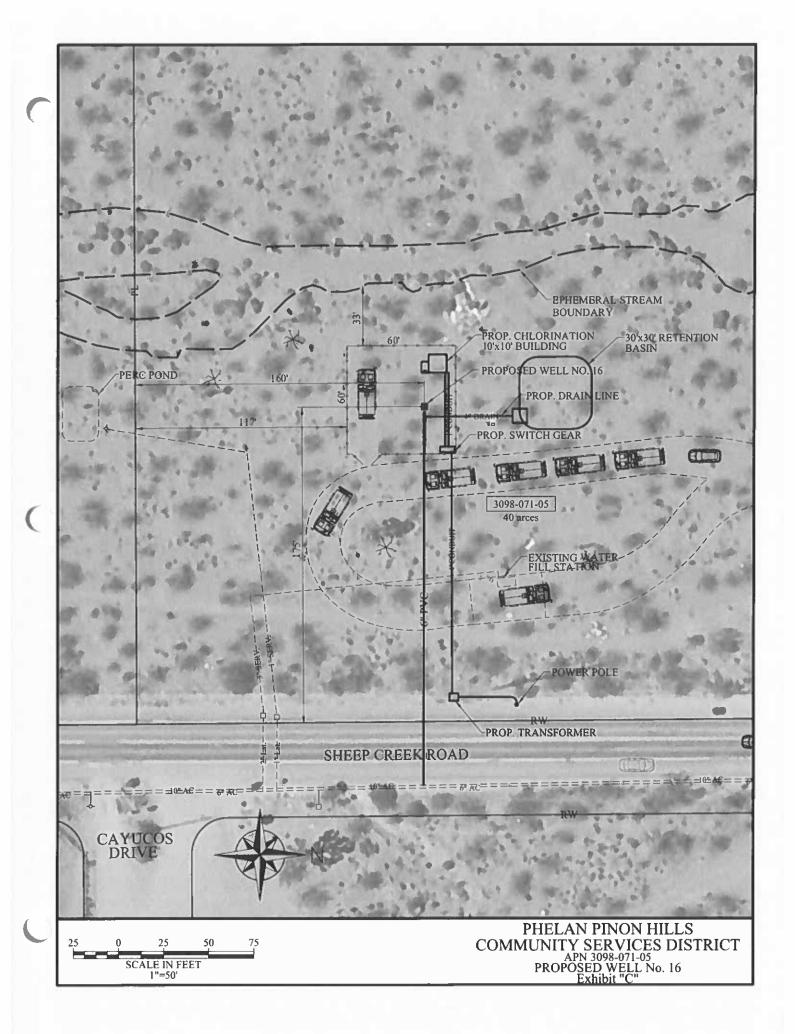
FISCAL IMPACT

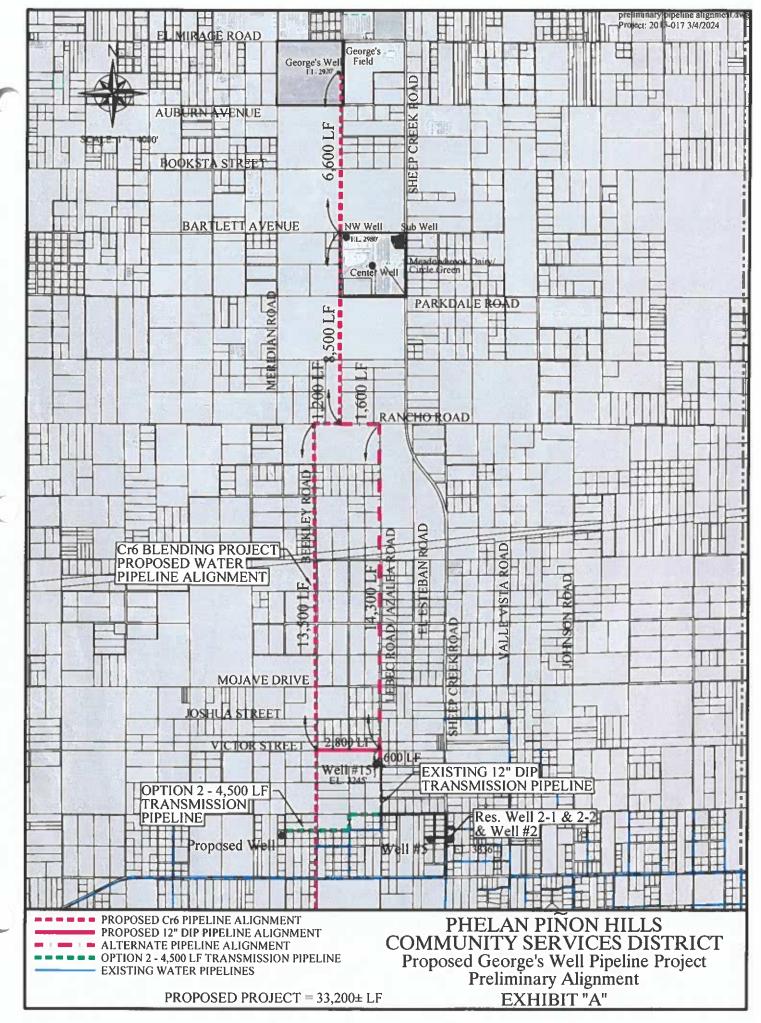
Transmission Pipeline: \$0 Outfitting of well: \$300,000 - \$500,000 Drilling of Well: \$1,100,000 SCADA: \$50,000 CEQA: \$0 Property Acquisition: \$0 **Total Estimate: \$ 1,450,000 - \$1,650,000**

Budgeted:

FY-23/24: \$100,000 FY-24/25: \$2,000,000

ATTACHMENT(S) Well 16 Plot Plan Local Area Map







Water Operations Manager's Report February 2024

Introduction

The Phelan Piñon Hills Community Services District (District) maintains a large water distribution system that includes over three hundred & forty miles of water lines. The following are District statistics and information related to the operations of this distribution system and the quality of the water supplied to District customers.

Summary

The District's water distribution system is in compliance with the State Water Resources Control Board- Division of Drinking Water, The Environmental Protection Agency, the Safe Drinking Water Act, Cal OSHA, and all other governing agencies.

Current chlorine demand has remained low and steady due to routine maintenance and flushing. Chlorine demand is found by subtracting the chlorine residual from the total chlorine added to the water system. A low chlorine demand indicates water-free or nearly free of pathogenic microorganisms.

Water Quality Samples

The following is a summary of all water quality samples collected this month and any pertinent information related to said samples.

TEST TYPE	NO. OF COLLECTIONS THIS MONTH	TESTING SCHEDULE	NOTES
Raw water and Bac-t samples	48 samples	Monthly	All in compliance, Sampled Weekly
General physical samples	6 samples	Monthly	All in compliance, Sampled Weekly
TTHM/HAA5	0 samples sets	Quarterly	All in compliance.
Title 22	0 sample sets	TBD	All in Compliance.
Inorganics	0 samples	Yearly	All in compliance.
Radiological (Gross Alpha)	0 samples	Every 3 Years	All in compliance.
Trichloropropane 1,2,3-TCP	1 samples	Quarterly	All in compliance.
Regulated VOC	0 samples	As needed	All in compliance.
Nitrate as N	1 samples	As needed	All in Compliance.
Chromium 6	0 samples	Quarterly	All in Compliance.
Secondary GP'S	2 samples	As needed	All in Compliance.
Uranium	0 samples	As needed	All in Compliance

Production and Service Order Report

The following is a summary of the District's water production and service orders for the current month.

Total Monthly Production	127.36 A. F. 15 % less than 2023
2023 Monthly Production	149.80 A. F.
USA's Marked	157
Service Orders Completed	439 service orders completed
Main/Service Line Leaks	12 service line leaks were repaired. 1 Main line leak/ breaks repaired
Hydrant Repairs/Replacements	0 hydrants repaired/0 replaced
Residential Meters Sold	4
Commercial Meters Sold	0
YTD Total Meters Sold (Calendar)	8 (56 in 2023) (86 in 2022) (95 in 2021)
Construction Meters Out	3
Service Lines Replaced	0

Job Code Summary

Job Code	Total Completed
C-Lock - Lock	85
C-Read & Unlock-Open - Read & Unlock - Opening	5
C-Read & Unlock-OC-DM - Read & Unlock - Opening-OC-DM	44
D-Closing Read & Lck - Closing Read & Lock DO NOT USE	2
D-Closing Read-OC-DM - Closing Read & Lock-OC-DM DO NOT USE	2
M- Investigate Lock - Verify Meter Still Locked	4
M- Verify Acct Class - Verify Account Class	0
M- Water Audit - Audit Water Usage	7
M-Backflow - Backflow Information	0
M-Cost Estimate Req - Cost Estimate Request	2
M-Data - Data Log	2
M-Bees- Bees	0
M-Investigate Leak - Investigate Leak	0
M-Investigate No Wtr - Investigate No Water	2
M-Lock No N/O Info - Meter Locked No New Owner Info	0
M-Low/No Consumption - Investigate Low/No Consumption	0
M-Meter Leaking - Meter Leaking	0
M-Meter UTL - Buried - Meter UTL - Buried	0
M-Pressure Ck Hi-Low - Pressure Check Hi-Low	2
M-R/R Angle Stop - Repair/ Replace Angle Stop	1
M-R/R Gate Valve - Repair/ Replace Gate Valve	1
M-Read - Read (do not update Read)	0
M-Repair Svc Line - Repair Service Line	12
M-Repair/Install Box - Meter Box	1
M-Replace Serv Line - Replace Service Line	0

M-Stake Meter Loc - Stake Meter Location	0	
M-Status - Status	6	
M-Turn off-Cust Req - Turn off - Customer Request	4	
M-UNLOCK – UNLOCK	19	
M-Verify Leak Repair - Verify Leak Repaired	1	
M-Water Loss Leak - Door Hanger Water Loss Leak	13	
M-Water Quality Taste - Water Quality - Taste	1	
S- Replace Register - Register Not Sending Signal	162	
S- Meter Downsize - Meter Downsizing	0	
Service Change - Service Status Change	1	
S-Replace Mtr & Reg - Replace Entire Meter Max Life Usage	0	
S-Replace Reg Hotrod - Replace Register Hotrod Died	0	
S-Replace Register - Replace Register Mueller	0	
S-Replace Mtr- Replace Entire Meter Bottom Seal Leaking	0	
Grand Totals	439	

Summary of Current Projects

The following is a brief summary of all current and completed projects for the reported period

- Water Meter Replacement Project- 7292 of 7292 Replaced 100 % Complete The District is now an Advanced Metering Infrastructure (AMI) exclusive system
- Well 15 Outfitting, and Equipping 100% Complete The well has been certified to produce 806 GPM @ 70% Efficiency @ \$207.97 per AF
- Well Soundings at all wells are being done monthly
- Well 14 Production for February 0.00 AF, YTD 0.08 AF @ \$1119 per AF replacement C/Y 2023
- Valves and Hydrants Maintenance: 108 hydrants flushed and painted YTD Total-179
- Service line replacement program. 6 Replaced Calendar Year to Date, 21 Replaced Fiscal Year to Date
- Air-Vac maintenance & flushing program-0 Flushed & Maintenance YTD-0 of 336 Total Project 0% Complete
- Cla-Val automatic controls valves being systematically rebuilt as a water conservation measure- 25 Complete YTD Water savings from this project is 17 GPM and counting in conjunction with operational efficiency @ 7MG
- Outfitting & Equipping of Mountain well (Well 17)- 100% Complete
- Site 2 Booster C rehab- pump and motor failed- 30% Complete
- Site 1B Booster A Motor failure & rehab- 20 % Complete
- Site 1B Booster D Motor failure- 100 % Complete

Projects Completed

- Well Meter and inter-tie Meter annual accuracy program FY 23/24- 100 % Complete
- Electrical Efficiency test performed @ every booster and well within the District- 100%
- Oil Changes and greasing at all district wells 100% Complete Boosters 100 % Complete
- 2 Valves Turned this month as part of the district Valve Exercising Program, 43 Year to Date Turned of 4291 Staff is scheduled to begin cross-training to greatly increase the program quantities per year
- 317 Dead ends flushed of 317 = every year no matter what < No goal, this is mandatory
- 1936 hydrants = 159 flushed this Year to Date 246 Painted Goal is 968 annually, this is done Bi-Annual
- Tank washouts of 10&11,1B-2,3A,1C-2,1A-3,2B
- Vegetation has been mitigated and disposed of on all Water Operations Facilities
- Smithson Springs SCADA hub building replaced