Phelan Piñon Hills CSD
Established 2008

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

Remote Viewing:
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 ksevy@pphcsd.org 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 ksevy@pphcsd.org or by visiting our website and completing the signup form at www.pphcsd.org 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 www.pphcsd.org

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 of CONTRACTOR and the DISTRICT. CONTRACTOR shall bind every 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) **Certificates of Insurance:** 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) **Required Provisions:** 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) **Additional Insured:** 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) **Cancellation:** 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) **Waiver of Subrogation:** 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) **Claim Reporting:** 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) **Deductible/Retention:** 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 self-insured retention by a surety bond or an irrevocable and unconditional

letter of credit.

(7) **CONTRACTOR's Sub-contractors:** CONTRACTOR shall include all sub-contractors 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 sub-contractor 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 Best's Key Rating Guide 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) **Workers' Compensation:** 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) **General Liability:** 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) **Automobile Liability:** 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) **Professional Liability:** 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

By: _____

_____
(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 <MGarcia@genpump.com>
Sent: Friday, December 8, 2023 3:49 PM
To: Sean Wright <swright@pphcsd.org>
Cc: Chris Cummings <Ccummings@pphcsd.org>; Peter Brooks <pbrooks@genpump.com>
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

Exhibit A

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 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

Item #	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				
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12				
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

BID ITEM EQUIPMENT AND MATERIAL

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 / (O) / R	Hourly	$ 135.00
Cable Tool Rig- 5 TON Capacity	L / (O) / R	Hourly	$ 10.00
Rotary Crane – 5 TON And Smaller	L / (O) / 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 / (O) / R	Hourly	$ 20.00
OTHER (Please Specify) Flatbed	L / (O) / R	Hourly	$ 20.00
TOTAL Based on 100 Hours			$ 570.00

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	$ 90.00	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.

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

Item #	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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13				

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

Thirty Four Thousand Three Hundred Thirty Eight _____ Dollars $ 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.

BID ITEM EQUIPMENT AND MATERIAL

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

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

Sixty Eight Thousand Five Hundred Dollars $ 68,500.00

(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)	$ 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	

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

Seventy Eight Thousand Eight Hundred Dollars $ 78,800.00

(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)	$ 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	

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.

Phelan Piñon Hills CSD
Established 2008

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 by 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 utilized 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

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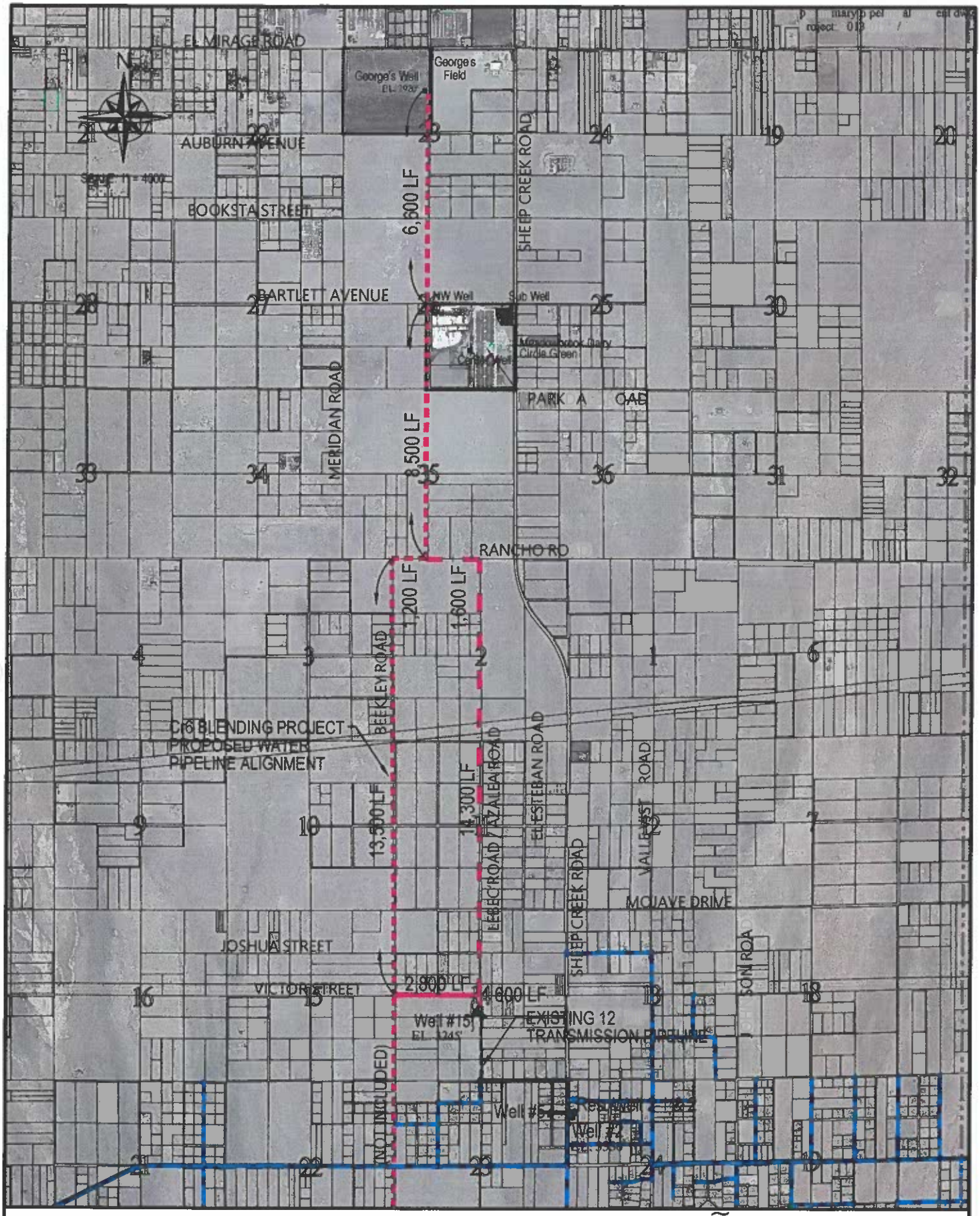
Budgeted:
FY-23/24: $100,000
FY-24/25: $2,000,000

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



PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT

Proposed George's Well Pipeline Project
Preliminary Alignment
EXHIBIT "A"

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**

Wells were renamed 4/11/2018

State of California
Department of Public Health
Office of Drinking Water

MONTHLY BLENDING RECORD

Water System Name [redacted]
Month/Year

System No [redacted]
Constituent Being Blended [redacted]

Day	Source 1 Georges Well (22)			Source 2 Center Well (20)			Source 3 NorthWest Well (23)			Source 4 NorthEast Well (21)			Source 5			Source 6			Source 7			Theoretical Concentration in Blended Water from Sources 1, 2, 3, 4, 5, 6 & 7			Laboratory Result
	Quantity of Water (1200)	Conc 2 9	A X B =	Quantity of Water (500)	Conc 8 7	D X E =	Quantity of Water (300)	Conc 2 2	G X H =	Quantity of Water (200)	Conc 0	G X H =	Quantity of Water ( )	Conc	G X H =	Quantity of Water ( )	Conc	G X H =	Quantity of Water ( )	Conc	G X H =	C+F+I =	A+D+G =	J ÷ K ( )	( )
	A	B	C	D	E	F	G	H	I	G	H	I	G	H	I	G	H	I	G	H	I	J	K		
1	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
2	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
3	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
4	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
5	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
6	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
7	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
8	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
9	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
10	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
11	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	0	0	#DIV/0!	WELLS
12	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
13	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
14	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
15	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
16	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
17	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
18	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
19	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
20	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
21	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
22	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
23	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
24	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
25	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
26	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
27	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
28	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
29	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
30	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS
31	1200	2 9	3480	600	8 7	5220	0	2 2	0	0	8 4	0	0	18	0	0	17 7	0	0	14	0	8700	1800	4 8333333	WELLS

(Cr6) 4.83 ug/L

*Units noted in parantheses

State of California
Department of Public Health
Office of Drinking Water

MONTHLY BLENDING RECORD

Water System Name [redacted]
Month/Year

System No [redacted]
Constituent Being Blended [redacted]

Day	Source 1 Georges Well (22)			Source 2 Center Well (20)			Source 3 NorthWest Well (23)			Source 4 NorthEast Well (21)			Source 5			Source 6			Source 7			Theoretical Concentration in Blended Water from Sources 1, 2, 3, 4, 5, 6 & 7			Laboratory Result
	Quantity of Water (1200)	Conc 8 3	A X B =	Quantity of Water (600)	Conc 3 0	D X E =	Quantity of Water (300)	Conc 4 5	G X H =	Quantity of Water (200)	Conc 12	G X H =	Quantity of Water ( )	Conc	G X H =	Quantity of Water ( )	Conc	G X H =	Quantity of Water ( )	Conc	G X H =	C+F+I =	A+D+G =	J ÷ K ( )	( )
	A	B	C	D	E	F	G	H	I	G	H	I	G	H	I	G	H	I	G	H	I	J	K		
1	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
2	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
3	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
4	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
5	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
6	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
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9	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
10	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	0	0	#DIV/0!	WELLS
11	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
12	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
13	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
14	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
15	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
16	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
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23	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
24	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
25	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
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29	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS
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31	1200	8 3	9960	600	3	1800	0	4 5	0	0	12	0	0	18	0	0	17 7	0	0	14	0	11760	1800	6 5333333	WELLS

(AS) 6.53 ug/L

*Units noted [illegible]

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 13A1324
4176 Warbler Rd	Sub Project: Dairy Wells	Received: 01/16/13 17:25
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 01/30/13

Dairy Sub Well (NIS) **13A1324-04 (Water)** **Sample Date:** 01/16/13 10:00 **Sampler:** Brian Gerke

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	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	87	mg/L	5.0		01/18/13	01/18/13	1303381	
Bicarbonate (HCO3)	SM 2320 B	92	mg/L	5.0		01/18/13	01/18/13	1303381	
Carbonate (CO3)	SM 2320B	7.2	mg/L	5.0		01/18/13	01/18/13	1303381	
Chloride (Cl)	EPA 300.0	18	mg/L	1.0	500	01/17/13	01/17/13	1303344	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	01/21/13	01/21/13	1304006	
Specific Conductance (E.C.)	SM 2510B	740	umhos/cm	2.0	1600	01/18/13	01/18/13	1303381	
Fluoride (F)	EPA 300.0	1.4	mg/L	0.10	2	01/17/13	01/17/13	1303344	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13	1303381	
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	1303344	
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			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	
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	Project: Routine	Work Order: 13A1324
4176 Warbler Rd	Sub Project: Dairy Wells	Received: 01/16/13 17:25
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 01/30/13

Dairy Sub Well (NIS) **13A1324-04 (Water)** **Sample Date:** 01/16/13 10:00 **Sampler:** Brian Gerke

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	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**	meq/L			01/22/13	01/18/13	[CALC]	
Total Cations	Calculated	**7.25**	meq/L			01/22/13	01/22/13	[CALC]	
% difference	Calculated	**0.4**				01/22/13	01/18/13	[CALC]	

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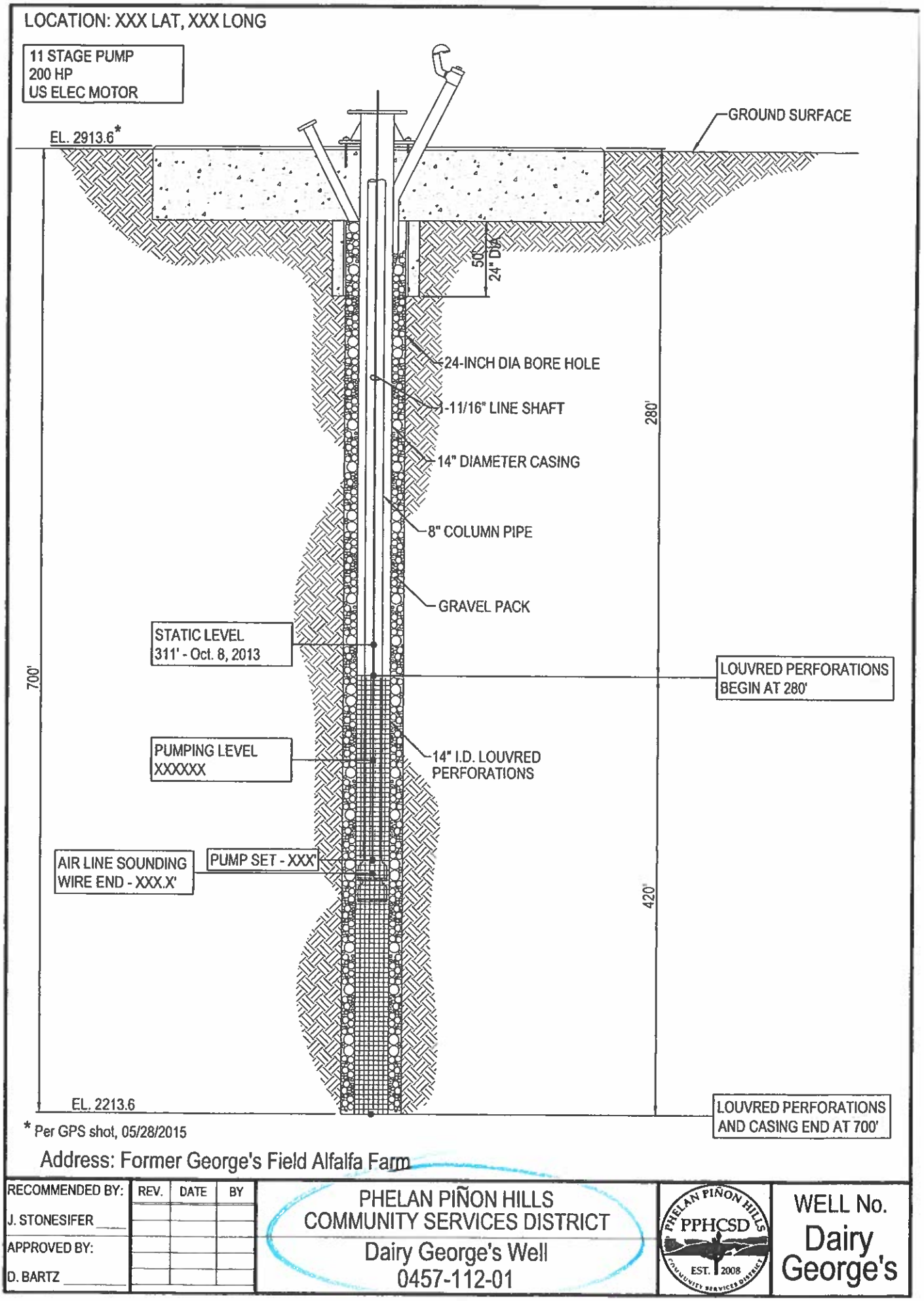
LOCATION: XXX LAT, XXX LONG
11 STAGE PUMP
200 HP
US ELEC MOTOR
EL. 2913.6*
GROUND SURFACE
50'
24" DIA
24-INCH DIA BORE HOLE
1-11/16" LINE SHAFT
14" DIAMETER CASING
8" COLUMN PIPE
GRAVEL PACK
280'
700'
STATIC LEVEL
311' - Oct. 8, 2013
LOUVRED PERFORATIONS
BEGIN AT 280'
PUMPING LEVEL
XXXXXX
14" I.D. LOUVRED
PERFORATIONS
AIR LINE SOUNDING
WIRE END - XXX.X'
PUMP SET - XXX'
420'
EL. 2213.6
LOUVRED PERFORATIONS
AND CASING END AT 700'
* Per GPS shot, 05/28/2015
Address: Former George's Field Alfalfa Farm
RECOMMENDED BY:
J. STONESIFER
APPROVED BY:
D. BARTZ
REV.
DATE
BY
PHELAN PIÑON HILLS
COMMUNITY SERVICES DISTRICT
Dairy George's Well
0457-112-01
PHELAN PIÑON HILLS
PPHCSD
EST. 2008
COMMUNITY SERVICES DISTRICT
WELL No.
Dairy
George's

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1748
4176 Warbler Rd	Sub Project: Title 22	Received: 08/20/15 13:00
Phelan CA, 92371	Project Manager: Scan Wright	Reported: 09/15/15

Georges Well - Dairy **15H1748-01 (Water)** **Sample Date:** 08/19/15 14:30 **Sampler:** Scan Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	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	**1**	TON	1	3	08/20/15	08/20/15	1534554	
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 (HCO3)	SM 2320 B	**90**	mg/L	5.0		08/21/15	08/21/15	1534500	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		08/21/15	08/21/15	1534500	
Chloride (Cl)	EPA 300.0	**20**	mg/L	1.0	500	08/20/15	08/20/15	1534502	
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	1534547	
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 Molc. 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	**640**	ug/L	400	10000	08/20/15	08/20/15	1534502	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	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 4500HB	**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/L	5.0	1000	08/20/15	08/21/15	1534476	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	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/L	2.0	10	08/27/15	08/27/15	1535359	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	08/24/15	08/24/15	1535022	
Beryllium (Be)	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	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		08/21/15	08/21/15	1534558	

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Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1748
4176 Warbler Rd	Sub Project: Title 22	Received: 08/20/15 13:00
Phelan CA, 92371	Project Manager: Scan Wright	Reported: 09/15/15

Georges Well - Dairy **15H1748-01 (Water)** **Sample Date:** 08/19/15 14:30 **Sampler:** Scan Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Magnesium (Mg)	EPA 200.7	5.4	mg/L	1.0		08/27/15	08/27/15	1535380	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	08/24/15	08/24/15	1535022	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	08/31/15	09/01/15	1536018	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	08/21/15	08/21/15	1534542	
Potassium (K)	EPA 200.7	1.7	mg/L	1.0		08/27/15	08/27/15	1535380	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	08/25/15	08/25/15	1535104	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	08/21/15	08/21/15	1534542	
Sodium (Na)	EPA 200.7	92	mg/L	1.0		08/27/15	08/27/15	1535380	
Thallium (Tl)	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	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	08/24/15	08/24/15	1535022	
Anion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	140	mg/L			08/27/15	08/27/15	[CALC]	
Total Anions	Calculated	7.57	meq/L			08/27/15	08/27/15	[CALC]	
Total Cations	Calculated	6.89	meq/L			08/27/15	08/27/15	[CALC]	
% difference	Calculated	9.3				08/27/15	08/27/15	[CALC]	
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	10	pCi/L	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	
Volatile Organic Analyses									
Vinyl Chloride (VC)	EPA 524.2	ND	ug/L	0.50	0.5	08/25/15	08/25/15	1535200	
Trichlorofluoromethane (FREON 11)	EPA 524.2	ND	ug/L	5.0	150	08/25/15	08/25/15	1535200	
1,1-Dichloroethylene (1,1-DCE)	EPA 524.2	ND	ug/L	0.50	6	08/25/15	08/25/15	1535200	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	ug/L	10	1200	08/25/15	08/25/15	1535200	
Dichloromethane (Methylene Chloride)	EPA 524.2	ND	ug/L	0.50	5	08/25/15	08/25/15	1535200	
trans-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	EPA 524.2	ND	ug/L	3.0	13	08/25/15	08/25/15	1535200	
1,1-Dichloroethane (1,1-DCA)	EPA 524.2	ND	ug/L	0.50	5	08/25/15	08/25/15	1535200	
cis-1,2-Dichloroethylene (c-1,2-DCE)	EPA 524.2	ND	ug/L	0.50	6	08/25/15	08/25/15	1535200	
Chloroform (Trichloromethane)	EPA 524.2	ND	ug/L	1.0		08/25/15	08/25/15	1535200	
Carbon Tetrachloride	EPA 524.2	ND	ug/L	0.50	0.5	08/25/15	08/25/15	1535200	
1,1,1-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	
1,2-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/L	0.50	5	08/25/15	08/25/15	1535200	
1,2-Dichloropropane	EPA 524.2	ND	ug/L	0.50	5	08/25/15	08/25/15	1535200	
Bromodichloromethane	EPA 524.2	ND	ug/L	1.0		08/25/15	08/25/15	1535200	
Toluene	EPA 524.2	ND	ug/L	0.50	150	08/25/15	08/25/15	1535200	

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Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1748
4176 Warbler Rd	Sub Project: Title 22	Received: 08/20/15 13:00
Phelan CA, 92371	Project Manager: Sean Wright	Reported: 09/15/15

Georges Well - Dairy **15H1748-01 (Water)** **Sample Date:** 08/19/15 14:30 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses									
Tetrachloroethylene (PCE)	EPA 524.2	ND	ug/L	0.50	5	08/25/15	08/25/15	1535200	
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/L	1.0		08/25/15	08/25/15	1535200	
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	ug/L	0.50	70	08/25/15	08/25/15	1535200	
Ethyl Benzene	EPA 524.2	ND	ug/L	0.50	300	08/25/15	08/25/15	1535200	
cis-1,3-Dichloropropene	EPA 524.2	ND	ug/L	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/L	0.50		08/25/15	08/25/15	1535200	
trans-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50		08/25/15	08/25/15	1535200	
Styrene	EPA 524.2	ND	ug/L	0.50	100	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/L	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 (TTHM)	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	ug/L	0.50	1750	08/25/15	08/25/15	1535200	
Surrogate: Bromofluorobenzene	*EPA 524.2*	*87 %*				*08/25/15*	*08/25/15*	*1535200*	
Surrogate: 1,2-Dichlorobenzene-d4	*EPA 524.2*	*84 %*				*08/25/15*	*08/25/15*	*1535200*	
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	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	
Semi-Volatile Organic Analyses									
Endrin	EPA 508.1	ND	ug/L	0.10	2	08/26/15	08/29/15	1535217	
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	ug/L	10	30	08/26/15	08/29/15	1535217	
Toxaphene	EPA 508.1	ND	ug/L	1.0	3	08/26/15	08/29/15	1535217	
Chlordane	EPA 508.1	ND	ug/L	0.10	0.1	08/26/15	08/29/15	1535217	
Heptachlor	EPA 508.1	ND	ug/L	0.010	0.01	08/26/15	08/29/15	1535217	
Heptachlor Epoxide	EPA 508.1	ND	ug/L	0.010	0.01	08/26/15	08/29/15	1535217	
Hexachlorobenzene	EPA 508.1	ND	ug/L	0.50	1	08/26/15	08/29/15	1535217	
Hexachlorocyclopentadiene	EPA 508.1	ND	ug/L	1.0	50	08/26/15	08/29/15	1535217	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	ug/L	0.50	0.5	08/26/15	08/29/15	1535217	
Surrogate: Dibutylchlorendate	*EPA 508.1*	*130 %*				*08/26/15*	*08/29/15*	*1535217*	
Dalapon	EPA 515.4	ND	ug/L	10	200	08/21/15	09/02/15	1535454	
2,4,5-TP (SILVEX)	EPA 515.4	ND	ug/L	1.0	50	08/21/15	09/02/15	1535454	
Bentazon (BASAGRAN)	EPA 515.4	ND	ug/L	2.0	18	08/21/15	09/02/15	1535454	
Picloram	EPA 515.4	ND	ug/L	1.0	500	08/21/15	09/02/15	1535454	
2,4-D	EPA 515.4	ND	ug/L	10	70	08/21/15	09/02/15	1535454	

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Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1748
4176 Warbler Rd	Sub Project: Title 22	Received: 08/20/15 13:00
Phelan CA, 92371	Project Manager: Sean Wright	Reported: 09/15/15

Georges Well - Dairy **15H1748-01 (Water)** **Sample Date:** 08/19/15 14:30 **Sampler:** Sean 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	1	08/21/15	09/02/15	1535454	
Dinoseb (DNBP)	EPA 515.4	ND	ug/L	2.0	7	08/21/15	09/02/15	1535454	
Surrogate: 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	1	08/24/15	08/25/15	1535030	
Benzo(a)pyrene	EPA 525.2	ND	ug/L	0.10	0.2	08/24/15	08/25/15	1535030	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	ug/L	3.0	4	08/24/15	08/25/15	1535030	
Di(2-ethylhexyl) 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/L	1.0	70	08/24/15	08/25/15	1535030	
Surrogate: 1,3-dimethyl-2-nitrobenzene	*EPA 525.2*	*101 %*				*08/24/15*	*08/25/15*	*1535030*	
Surrogate: Perylene-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/L	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	08/25/15	08/27/15	1535097	

GA-01 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

Bob Glaubig

Bob Glaubig

Laboratory Director

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
Clinical Laboratory of San Bernardino
PO BOX 329
San Bernardino, CA 92402

Phone: (909) 825-7693
Fax:
Collected: 08/19/2015
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)

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

Analyst(s)
Sherrie Ahmad (1)

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

Any questions please contact Jerry Drapala

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

OrderID: 321517978

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15H1748 321517978

SENDING 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

RECEIVING LABORATORY:

LA Testing
520 Mission Street
South Pasadena, CA 91030
Phone :(323) 254-9960
Fax: (323) 254-9982

Please email results to Project Manager: Bob Glaubig
[✓] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [ ] styles@clinical-lab.com [ ] cole@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [✓] No
Transfer File requested; log in with Element ID only [ ] Yes [✓] No

Turn Around Time [✓] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: Georges Well - Dairy / 15H1748-01	**Sampled: 08/19/15 14:30 PS Code:** **Water** **WTX ID:** **UCMR ID:**
Asbestos EPA 100.2	
Containers Supplied:	
1 Quart Plastic (J)	

Temp 10.9°C

12:10pm

Released By	Date / Time	Received By	Date / Time
[signature]	08/21/15 08:00	[signature] (WI)	8/21/15
Released By	Date / Time	Received By	Date / Time

Certificate of Analysis

Report Date: 09/15/15 10:35
Received Date: 08/21/15 10:20
Turnaround Time: Normal

Project: 15H1748

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 **Sample ID:** Georges Well - Dairy / 15H1748-01 **Matrix:** Water
Sampled by: Client **Sampled:** 08/19/15 14:30

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	

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	%REC	%REC Limits	RPD	RPD Limit
Diquat		ND		ug/l					

LCS (W5H1341-BS1) — Prepared: 08/25/15 Analyzed: 09/11/15 14:30

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%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	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	14.3		ug/l	20.0	72	46-122		

Matrix Spike (W5H1341-MS2) — Source: 5H24067-10 Prepared: 08/25/15 Analyzed: 09/11/15 14:43

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	11.8		ug/l	20.0	59	46-122		

Matrix Spike Dup (W5H1341-MSD1) — Source: 5H21005-01 Prepared: 08/25/15 Analyzed: 09/11/15 14:38

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	13.5		ug/l	20.0	67	46-122	6	30

Matrix Spike Dup (W5H1341-MSD2) — Source: 5H24067-10 Prepared: 08/25/15 Analyzed: 09/11/15 14:47

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	12.8		ug/l	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) — Prepared: 08/27/15 Analyzed: 09/10/15 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/l					

LCS (W5H1479-BS1) — Prepared: 08/27/15 Analyzed: 09/10/15 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) — Prepared: 08/27/15 Analyzed: 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

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 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).
sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15H1748 5H21024

SENDING 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

RECEIVING LABORATORY:

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
[✓] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [ ] styles@clinical-lab.com [ ] cole@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [✓] No
Transfer File requested; log in with Element ID only [ ] Yes [✓] No

Turn Around Time [✓] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis **Comments**

Sample ID: Georges Well - Dairy / 15H1748-01 **Sampled: 08/19/15 14:30 PS Code:**
Water **WTX ID:**
UCMR ID:

549 Diquat
1613 Dioxins

Containers Supplied:
1 L Amber Plastic Na Thio EPA 549 (V) 1 L Amber Glass Na Thio EPA 1613 (W) 1 L Amber Glass Na Thio EPA 1613 (X)

Released By	Date / Time	Received By	Date / Time
[signature]	08/21/15 08:00	[signature]	8/21/15 9:12
[signature]	8/21/15 10:20	[signature]	8/21/15 1020 4.7°

ISH1748

Clinical Lab of San Bernardino, Inc.

Chain of (

of Containers ___/1/18 Bacti / GP / Other

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client: Phelan Pinion Hills CSD

Address:

Client Contact: Sean Wright

Phone No.: 760-868-1212 FAX No.: 760-868-2323

System No.: 3610120

Project: Title 22

Sampled By: Sean Wright

Comments: Georges Well - Dairy

Destination Laboratory

[ ] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Gen Min / Corrosivity / Cr+6	Inorganic Chemical / Gen Phy	Gross Alpha / Asbestos	Volatile Organic / EDB, DBCP	Chlor. Pesticide / Herbicide	DEHP/DEHA/PAH/Triazine	Carbamate Pesticide	Glyphosate / Endothall	Diquat	Dioxin	Comments	Turn Around Time (TAT)
8-19-15	2:30pm	Georges Well - Dairy				5	7		2		3		1		1	19	X	X	X	X	X	X	X	X	X	X	1050 gpm	
																	1 - 1/2 gallon plastic	1 - pint plastic / 1 - gen phys glass	1 - 1/2 gallon plastic / 1 - quart plastic	2 - EPA 524 vials / 2 - EPA 504 vials	1 - EPA 508 amber / 1 - EPA 515 amber	2 - EPA 525 ambers	1 - EPA 531 amber	1 - EPA 547 amber / 1 - EPA 548 amber	1 - EPA 549 amber	2 - EPA 1613 ambers		

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Sean Wright / PPHCSD	8-19-15 / 2:40 PM		ERNESTO ARAIZA / PPHCSD
	ERNESTO ARAIZA / PPHCSD	8-19-15 1530		VESCOBAR / GM
	Greg Wathen / DWR	8-20-15 / 13:00		

(Lab Use Only) ~~Lompoc~~ Lab Receipt Temp.: 22.1 °C

Shipped Via: [ ] Fed Ex [ ] ~~Golden~~ State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other ___

Condition: [ ] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: ___ Work Order Logged By: ___

Receipt Comments:

Clinical Lab Receipt Temp.: 16.6 °C

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 13A1324
4176 Warbler Rd	Sub Project: Dairy Wells	Received: 01/16/13 17:25
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 01/30/13

Georges Well (NIS) **13A1324-07 (Water)** **Sample Date:** 01/16/13 10:15 **Sampler:** Brian Gerke

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	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	**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	1303381	
Carbonate (CO3)	SM 2320B	**10**	mg/L	5.0		01/18/13	01/18/13	1303381	
Chloride (Cl)	EPA 300.0	**13**	mg/L	1.0	500	01/17/13	01/17/13	1303344	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	01/21/13	01/21/13	1304006	
Specific Conductance (E.C.)	SM 2510B	**590**	umhos/cm	2.0	1600	01/18/13	01/18/13	1303381	
Fluoride (F)	EPA 300.0	**1.5**	mg/L	0.10	2	01/17/13	01/17/13	1303344	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13	1303381	
MBAS (LAS Molc. Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.5	01/17/13	01/17/13	1303185	
Nitrate (NO3)	EPA 300.0	ND	mg/L	2.0	45	01/17/13	01/17/13	1303344	
Nitrate + Nitrite (as N)	EPA 300.0	ND	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	**8.7**	pH Units			01/17/13	01/17/13	1303381	
Sulfate (SO4)	EPA 300.0	**170**	mg/L	0.50	500	01/17/13	01/17/13	1303344	
Total Filterable Residue/TDS	SM 2540C	**350**	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	**9.3**	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	
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	01/23/13	01/23/13	1304135	
Boron (B)	EPA 200.7	**200**	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	**12**	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	ND	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	ND	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	**110**	mg/L	2.0		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	

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

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 13A1324
4176 Warbler Rd	Sub Project: Dairy Wells	Received: 01/16/13 17:25
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 01/30/13

Georges Well (NIS) **13A1324-07 (Water)** **Sample Date:** 01/16/13 10:15 **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	meq/L			01/22/13	01/18/13	[CALC]	
Total Cations	Calculated	5.39	meq/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

Bob Glaubig

Bob Glaubig

Laboratory Director

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

DAIRY W.I.
(NIS)

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

Chain of Custody

13A1324

Client	Phelan Pinion Hills CSD			Client Job No.	G 30055
Address	4176 Warbler Rd. Phelan, CA 92371			Destination Laboratory	[X] Geo-Monitor, Inc [ ] Other:
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323		
Contact	Ernesto Araiza	Cell No.	(760) 963-2023		
System No.	3610120				
Project Name	DAIRY WELLS				
Sampled By	BRIAN CRONE				
Comments					

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	TOC INORGANICS	General Mineral	Cl2 Residual	(NIS)	Turn Around time
1/16/13	9:40	Dairy Center well (NIS)	WA	1/2		4-W	X	X	O	X	
1/16/13	9:45	Monitoring well (NIS)	DA	3/4		4-W	X	X	O	X	
1/16/13	9:50	North West Corner well (NIS)	WA	5/6		4-W	X	X	O	X	
1/16/13	10:00	Dairy Subs well (NIS)	WA	7/8		4-W	X	X	O	X	
1/16/13	10:05	Home irrigation well (NIS)	SA	9/10		4-W	X	X	O	X	
1/16/13	10:10	New Domestic well (NIS)	WA	11/12		4-W	X	X	O	X	
1/16/13	10:15	George's well (NIS)	WA	13/14		4-W	X	X	O	X	

Preservatives: (1) $Na_2S_2O_3$ (3) Cold (2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Tom Clady / PPHCSD	1/16/13 11:55am		K.K. / GMI
	TM Geo Monitor	1-16-13 17 25		

Rec'd at Lab By: Rec'd Date / Time: Comments:

Rec'd on Ice Yes X No ____ Rec'd Intact Yes X No ____ Receipt Temperature: 17.1° C

Shipped Via | | Fed X | | Golden State | | UPS | | Client | | Other ____ Page 1 of 1

Geo-Monitor, Inc.

Client:	Phelan Pinion Hills CSD 4176 Warbler Rd. Phelan, CA 92371	*Contact:* *Phone:* *Fax:* *System No.*	Sean Wright (760) 868-1212 (760) 868-2323 3610120
Project:	Georges Well - Dairy		
Sampler:	Sean Wright		
Date Sampled:	August 19, 2015		
Date/Time Setup:	August 19, 2015 1600		
Date/Time Read:	August 20, 2015 1000		
Date Reported:	August 20, 2015		

Results

Laboratory ID	*Sample Time*	*Sample Location*	*Cl Res (mg/L)*	*Sample Type*	*SM 9223 Total Coliform*	*SM 9223 E. coli*	*SM 9215B HPC cfu / 1 mL*
B476	14:30	Georges Well Bac-T		4-W	Present (1)	Absent	

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

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

Director: BJ

15-1832

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

# of Containers 1 / ___ / ___ (Bacti / GP / Other)

Chain of Custody

Client	Phelan Pinion Hills CSD		
Address	4176 Warbler Rd.		
	Phelan, CA 92371		
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323
Contact	Sean Wright	Cell No.	(760) 885-7255
System No.	3610120		
Project Name:	Georges Well - Dairy		
Sampled By	Sean Wright		
Comments	Special IN-HOUSE ONLY 1050 GPM		

Client Job No.:

Destination Laboratory: [x] Geo-Monitor, Inc [ ] Other:

Turn Around Time:

Analysis Requested: Total Coliform P/A; IN-HOUSE ONLY!!!; SPECIAL

Date	Time	Sample Identification	Matrix	No.	Pres	Type	Total Coliform P/A	IN-HOUSE ONLY!!!	SPECIAL
8-19-15	2:30 PM	Georges Well Bac-T		1		4-U	X	X	

Preservatives: (1) $Na_2S_2O_3$ (2) H_2SO_4/HNO3 (3) Cold (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	Sean Wright /PPHCSD	8-19-15 / 2:40 PM	[signature]	ERNESTO ARAIZA / PPHCSD
[signature]	ERNESTO ARAIZA / PPHCSD	8-19-15 1530	[signature]	KEscobar / GMI

Rec'd at Lab By:

Rec'd Date / Time:

Comments:

Rec'd on Ice Yes ✓ No ___ Rec'd Intact Yes ✓ No ___ Receipt Temperature: 22.1°C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other ___

Page ___ of ___

VICTORY WELL SURVEYS

FLUID VELOCITY / GPM LOG
FLOWMETER ANALYSIS
DYNAMIC CONDITION

VWS No.	
001175	Company TRI COUNTY PUMP
	Well Name PPHCSD CENTER WELL
	City ADELANTO
	County SAN BERNARDINO State CA

Location:
WEST OF SHEEP CREEK RD.
SOUTH OF EL MIRAGE RD.

Other Services:
DYNAMIC FLOWMETER
WATER SAMPLES

Sec.	26	Twp.	6N	Rge.	7W		
Permanent Datum		G.L.	0 ft	Elevation above perm. datum	N/A	Elevation	G.L.
Log Measured From		G.L.					D.F.
Drilling Measured From		N/A					K.B.
Date		4-4-17					
Run Number		ONE					
Total Depth Driller		605'					
Total Depth Logger		600'					
Bottom Logged Depth		600'					
Top Logged Depth		370'					
Pump Depth Driller		360'					
Time Pumping Prior to Log		2 HOURS					
Pumping Water Level		330'					
Max. Recorded Temp.		N/A					
Pump Rate (GPM)		125 GPM					
Time Well Ready		10:00 AM					
Time Log Started		10:15 AM					
Truck Number		ONE					
Location		CA					
Operator		LAPORTE					
Representative		E. BRADBURY					

Perforation/Screen Record					Perforation/Screen Record			
Type	Perf Size	From	To	Type	Perf Size	From	To
Mills Slot	N/A	300'	605'				

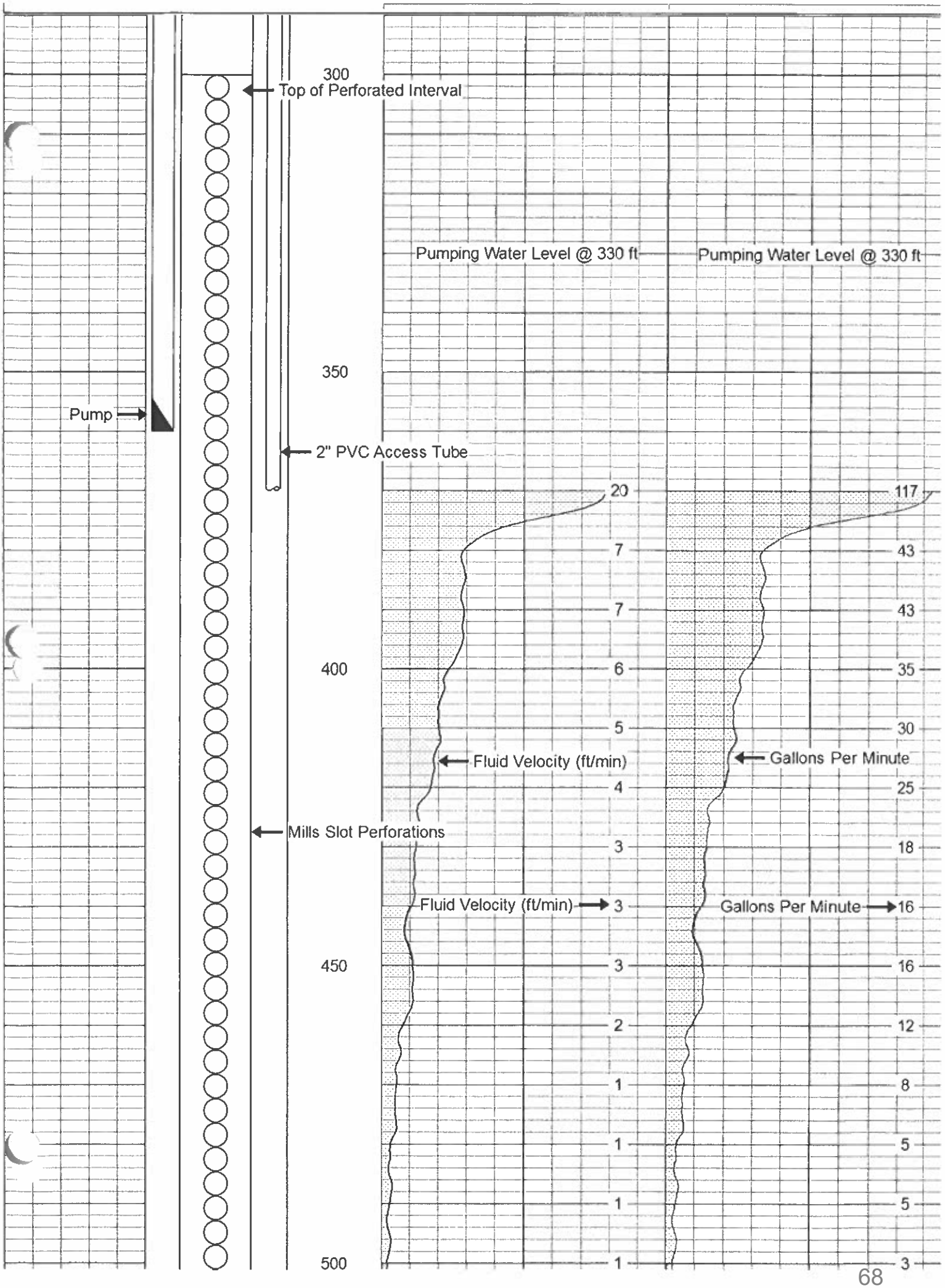
AS BILT Record	Size	Type	From	To
Surface Casing				
Production Casing	14"	Steel	0	605'
Liner				
Access Tube	2" I.D.	PVC	0	370'

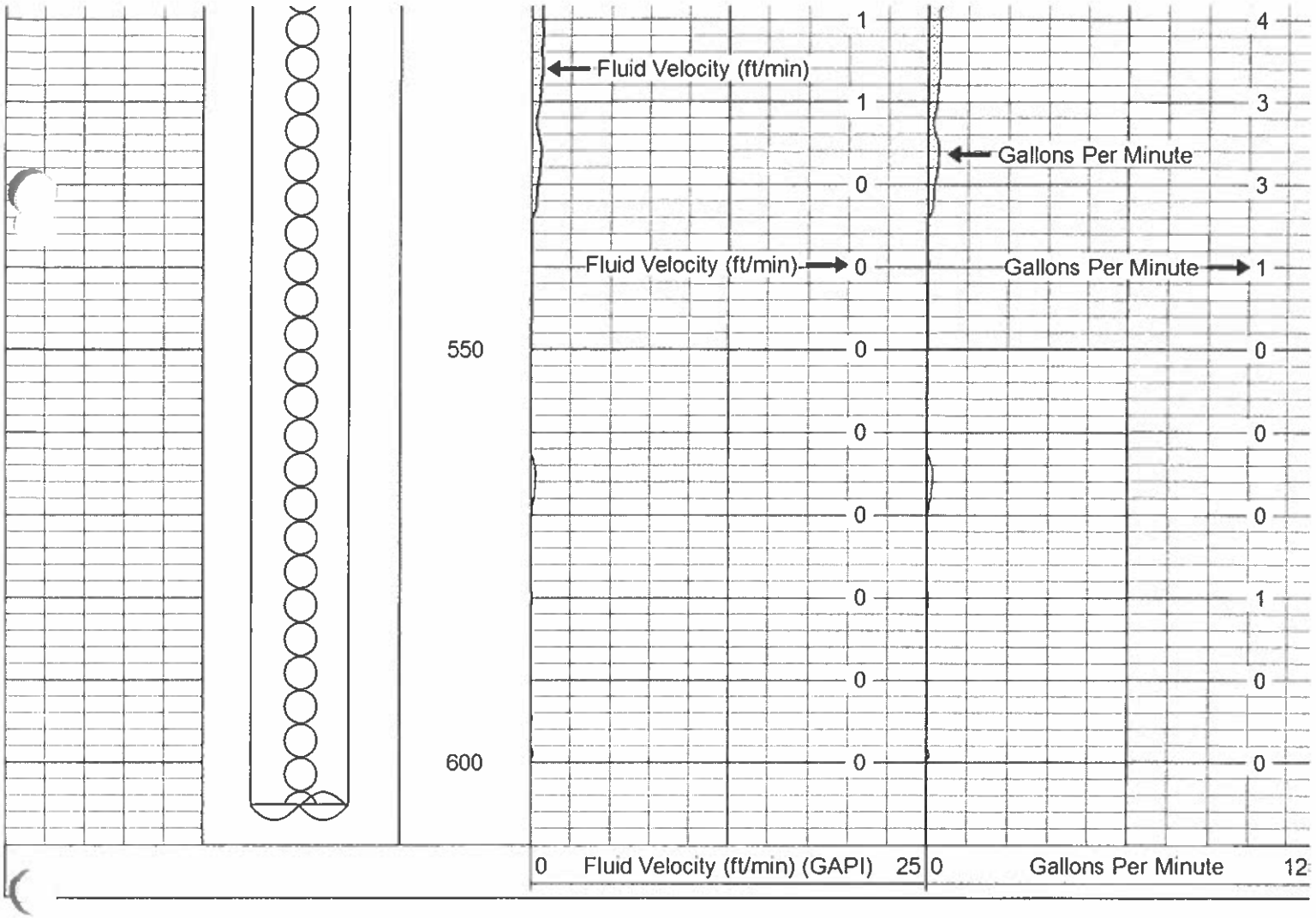
<<< Fold Here >>>

Comments

Center Well

Database File	001175.db
Dataset Pathname	Analysis/merge1
Presentation Format	spin_analysis
Dataset Creation	Thu Apr 06 12:34:57 2017
Charted by	Depth in Feet scaled 1:240


300
Top of Perforated Interval
Pumping Water Level @ 330 ft
Pumping Water Level @ 330 ft
350
Pump
2" PVC Access Tube
20
117
7
43
7
43
400
6
35
5
30
Fluid Velocity (ft/min)
Gallons Per Minute
4
25
Mills Slot Perforations
3
18
Fluid Velocity (ft/min)
3
Gallons Per Minute
16
450
3
16
2
12
1
8
1
5
1
5
500
1
3


Fluid Velocity (ft/min)
Gallons Per Minute
Fluid Velocity (ft/min)
Gallons Per Minute
550
600
0 Fluid Velocity (ft/min) (GAPI) 25
0 Gallons Per Minute 12

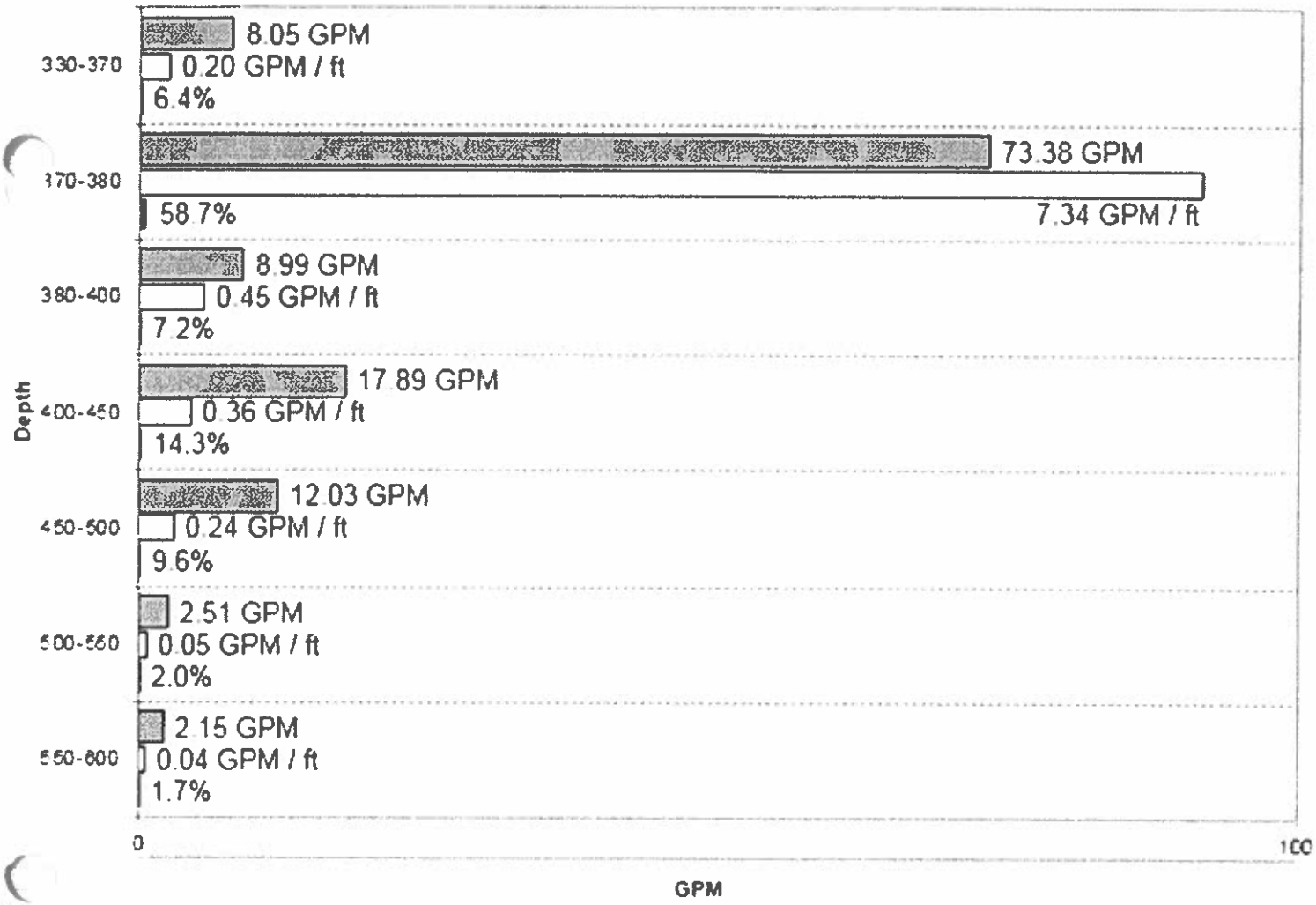
FLOWMETER ANALYSIS

VICTORY WELL SURVEYS

TOTAL GPM 125.00 GPM

DEPTH INTERVALS	INTERVAL GPM	PERCENT OF TOTAL GPM	GPM PER FOOT	INTERVAL 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	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

Production Profile Chart



Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

Chain of Custody

17C0117

2-0-4

Client	Phelan Pinion Hills CSD		
Address	4176 Warbler Rd.		
	Phelan, CA 92371		
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323
Contact	Sean Wright	Cell No.	(760) 885-7255
System No.	3610120		
Project Name: Top water samples			
Sampled By	Sean Wright		
Comments	IN HOUSE ONLY		

Client Job No.:

Destination Laboratory
[x] Geo-Monitor, Inc
[ ] Other:

Analysis Requested

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	IN HOUSE ONLY	Chromium 6	Nitrate as (N)	Total Coliform	Turn Around Time
3/1/2017	8:30 Am	Center Well static @ 329 Ft		1		4-W	X	X	X	X	
3/1/2017	7:15 Am	Georges Well static @ 361 Ft		2		4-W	X	X	X	X	

Preservatives: (1) $Na_2S_2O_3$ (3) Cold
(2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	Sean Wright /PPHCSD	3-1-17 / 12:25 pm	[signature]	Jack Stones
[signature]	Jack Stones	3-1-17 1335	[signature]	K Escobar / GMI
[signature]	Greg Rosst / Gcc	3/01/17 15:40	[signature]	

Rec'd at Lab By:

Rec'd Date / Time:

Comments:

Rec'd on Ice Yes ✓ No ____

Rec'd Intact Yes ✓ No ____

Receipt Temperature: 13.4°C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other ______

Page ____ of ____

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 16F0970
4176 Warbler Rd	Sub Project: Dairy Center Well	Received: 06/09/16 15:31
Phelan CA, 92371	Project Manager: Sean Wright	Reported: 06/23/16

Dairy Center Well **16F0970-01 (Water)** **Sample Date:** 06/09/16 10:30 **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 above the reporting limit

Bob Glaubig

Bob Glaubig

Laboratory Director

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

16F0970

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

# of Containers: 6 / 5 — Bacti / GP / Other

Chain of Custody

Client	Phelan Pinion Hills CSD
Address	4176 Warbler Rd. Phelan, CA 92371
Phone No.	(760) 868-1212
Fax No.	(760) 868-2323
Contact	Sean Wright
Cell No.	(760) 885-7255
System No.	3610120
Project Name	Dairy Center Well
Sampled By	Sean Wright
Comments	ALL SAMPLES IN HOUSE ONLY

Client Job No.:

Destination Laboratory: [x] Geo-Monitor, Inc [ ] Other:

Analysis Requested / Turn Around Time

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	Total Coliform (P/A)	Hetertrophic Plate Count	In HOUSE ONLY	TCP-1,2,3	Nitrate as (N)	Chromium 6	Nitrate + Nitrite (as N)	Temp's
~~6/8/2016~~		~~Dairy Center Well @ 6 Hours~~		~~1~~		~~4-W~~	~~X~~	~~X~~	X					
6/8/2016	5:30 PM	Dairy Center Well @ 8 Hours		2		4-W	X	X	X					
~~6/8/2016~~		~~Dairy Center Well @ 10 Hours~~		3		~~4-W~~	~~X~~	X	X					
6/8/2016	9:30 PM	Dairy Center Well @ 12 Hours		4		4-W	X	X	X					
~~6/8/2016~~		~~Dairy Center Well @ 14 Hours~~		~~5~~		~~4-W~~	~~X~~	X	~~X~~					
6/9/2016	1:30 AM	Dairy Center Well @ 16 Hours		6		4-W	X	X	X					
~~6/9/2016~~		~~Dairy Center Well @ 18 Hours~~		~~7~~		~~4-W~~	X	X	X					
6/9/2016	5:30 AM	Dairy Center Well @ 20 Hours		8		4-W	X	X	X					
~~6/9/2016~~		~~Dairy Center Well @ 22 Hours~~		~~9~~		~~4-W~~	~~X~~	~~X~~	~~X~~					
6/9/2016	9:30 AM	Dairy Center Well @ 24 Hours		10		4-W	X	X	X					
6/9/2016	10:30 AM	Dairy Center Well	W	~~5~~ 1	1,3	4-W	~~X~~	~~X~~	X	X	X	X	X	20°C

Preservatives: (1) $Na_2S_2O_3$ (2) H_2SO_4/HNO3 (3) Cold (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	Sean Wright /PPHCSD	6-9-16 / 12:15 PM	[signature]	Jack Stonesifer / PPHCSD
[signature]	Jack Stonesifer / PPHCSD	6-9-16 / 1:30	[signature]	Vescobar / GMI
[signature]	Greg Watkins, Bx	6/6/16 / 15:31	[signature]	

Rec'd at Lab By:

Rec'd Date / Time:

Comments:

Rec'd on Ice Yes ✓ No ____ Rec'd Intact Yes ✓ No ____ Receipt Temperature: 13.6°C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other ________

Page ____ of ____

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 16C1580
4176 Warbler Rd	Sub Project: Dairy Soil Testing	Received: 03/17/16 13:54
Phelan CA, 92371	Project Manager: Sean Wright	Reported: 03/22/16

Near Center Well 4 Ft Depth — **16C1580-01 (Water)** — **Sample Date:** 03/17/16 10:15 — **Sampler:** 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 — **16C1580-02 (Water)** — **Sample Date:** 03/17/16 10:20 — **Sampler:** 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 — **16C1580-03 (Water)** — **Sample Date:** 03/17/16 10:30 — **Sampler:** 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 — **16C1580-04 (Water)** — **Sample Date:** 03/17/16 10:45 — **Sampler:** 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	

Bottom of Perc Pond @ 4 Ft Depth — **16C1580-05 (Water)** — **Sample Date:** 03/17/16 11:15 — **Sampler:** 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 @ 8 Ft Depth — **16C1580-06 (Water)** — **Sample Date:** 03/17/16 11:20 — **Sampler:** 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	

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

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 16C1580
4176 Warbler Rd	Sub Project: Dairy Soil Testing	Received: 03/17/16 13:54
Phelan CA, 92371	Project Manager: Sean Wright	Reported: 03/22/16

Bottom of Perc Pond @ 12 Ft Depth — **16C1580-07 (Water)** — **Sample Date:** 03/17/16 11:25 — **Sampler:** 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 — **Sampler:** 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 — **Sampler:** 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 — **Sampler:** 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 — **Sampler:** 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 13 Ft Depth — **16C1580-12 (Water)** — **Sample Date:** 03/17/16 12:05 — **Sampler:** 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	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Glaubig

Bob Glaubig

Laboratory Director

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

Pt: Pinion Hills CSD

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

# of Containers ___ / ___ / 12 Bacti / GP / Other

Chain of Custody

16C1558080

Client	PPHCSD	Client Job No.	
Address			
Phone No.		Fax No.	
Contact		Cell No.	
System No.		Destination Laboratory	[ ] Geo-Monitor, Inc [ ] Other:
Project Name	Dairy soil testing		
Sampled By	Sean Wright		
Comments	Dairy Property		

Analysis Requested: 15 Tube; In-House Only

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	15 Tube	In-House Only
3-16-16	10:15Am	Near Center well 4' Depth	Soil	1		4	X	X
3-16-16	10:20Am	Near center well 8' Depth	Soil	2		4	X	X
3-16-16	10:30Am	Near center well 12' Depth	Soil	3		4	X	X
3-16-16	10:45Am	Near Center well 13 Depth	Soil	4		4	X	X
3-16-16	11:15Am	Bottom of perc Pond @ 4' Depth	Soil	5		4	X	X
3-16-16	11:20Am	Bottom of perc Pond @ 8' Depth	Soil	6		4	X	X
3-16-16	11:25Am	Bottom of perc Pond @ 12' Depth	Soil	7		4	X	X
3-16-16	11:30Am	Bottom of Perc Pond @ 13' Depth	Soil	8		4	X	X
3-16-16	11:50Am	cattle enclosure @ 4' Depth	Soil	9		4	X	X
3-16-16	11:55Am	cattle enclosure @ 8' Depth	Soil	10		4	X	X
3-16-16	12Pm	cattle enclosure @ 12' Depth	Soil	11		4	X	X
3-16-16	12:05Pm	cattle enclosure @ 13' Depth	Soil	12		4	X	X

Turn Around Time

Preservatives: (1) $Na_2S_2O_3$ (3) Cold (2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	PPHCSD / Sean Wright	3-16-16 / 2 Pm	[signature]	RESocar / GMI
[signature]	Greg Wi[illegible] / GMI	3-16-16 / 13:51	[signature]	[illegible] CLSB

Rec'd at Lab By: | Rec'd Date / Time: | Comments:

Rec'd on Ice Yes ___ No ✓ | Rec'd Intact Yes ✓ No ___ | Receipt Temperature: 24.2° C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other ________ Page ___ of ___

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1202
4176 Warbler Rd	Sub Project: Title 22	Received: 08/13/15 18:10
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 08/28/15

Center Well- Dairy **15H1202-01 (Water)** **Sample Date:** 08/13/15 14:45 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Temperature (Field)	Field	20.0	°C			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	1533627	
Odor Threshold	EPA 140.1M	1	TON	1	3	08/14/15	08/14/15	1533627	
Turbidity	EPA 180.1	1.5	NTU	0.1	5	08/14/15	08/14/15	1533627	
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	53	mg/L	5.0		08/17/15	08/17/15	1533573	
Bicarbonate (HCO3)	SM 2320 B	64	mg/L	5.0		08/17/15	08/17/15	1533573	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		08/17/15	08/17/15	1533573	
Chloride (Cl)	EPA 300.0	7.8	mg/L	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	
Langelier Index at 60 C	SM 203	0.44				08/13/15	08/13/15	1533573	
Aggressive Index	SM 203	11.66				08/13/15	08/13/15	1533573	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	08/14/15	08/14/15	1533620	
Specific Conductance (E.C.)	SM 2510B	620	umhos/cm	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	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/17/15	08/17/15	1533573	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	mg/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	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	08/14/15	08/14/15	1533619	
Perchlorate (ClO4)	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	mg/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	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	08/24/15	08/24/15	1535022	
Antimony (Sb)	SM3113-B	ND	ug/L	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 (Be)	EPA 200.7	ND	ug/L	1.0	4	08/21/15	08/21/15	1534542	
Boron (B)	EPA 200.7	ND	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	40	mg/L	1.0		08/17/15	08/17/15	1534016	
Chromium (+6)	EPA 218.6	1.0	ug/L	1.0	10	08/13/15	08/17/15	1533539	
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	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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Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1202
4176 Warbler Rd	Sub Project: Title 22	Received: 08/13/15 18:10
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 08/28/15

Center Well- Dairy **15H1202-01 (Water)** **Sample Date:** 08/13/15 14:45 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	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/L	20	50	08/24/15	08/24/15	1535022	
Mercury (Hg)	EPA 245.1	ND	ug/L	1.0	2	08/18/15	08/18/15	1534048	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	08/21/15	08/21/15	1534542	
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	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	08/17/15	08/17/15	1534017	
Vanadium (V)	EPA 200.9	18	ug/L	3.0		08/17/15	08/17/15	1534008	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	08/24/15	08/24/15	1535022	
Anion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	120	mg/L			08/17/15	08/17/15	[CALC]	
Total Anions	Calculated	6.15	meq/L			08/17/15	08/19/15	[CALC]	
Total Cations	Calculated	5.99	meq/L			08/17/15	08/17/15	[CALC]	
% difference	Calculated	2.5				08/17/15	08/19/15	[CALC]	
Radiochemistry Analyses									
Gross Alpha	EPA 900.0	7.1	pCi/L	3.0	15	08/17/15	08/21/15	1533561	GA-01
Gross Alpha Counting Error	EPA 900.0	2.2	pCi/L			08/17/15	08/21/15	1533561	
Gross Alpha Min Det Activity	EPA 900.0	1.8	pCi/L			08/17/15	08/21/15	1533561	
Volatile Organic Analyses									
Vinyl Chloride (VC)	EPA 524.2	ND	ug/L	0.50	0.5	08/19/15	08/19/15	1534227	
Trichlorofluoromethane (FREON 11)	EPA 524.2	ND	ug/L	5.0	150	08/19/15	08/19/15	1534227	
1,1-Dichloroethylene (1,1-DCE)	EPA 524.2	ND	ug/L	0.50	6	08/19/15	08/19/15	1534227	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	ug/L	10	1200	08/19/15	08/19/15	1534227	
Dichloromethane (Methylene Chloride)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
trans-1,2-Dichloroethylene (t-1,2-DCE)	EPA 524.2	ND	ug/L	0.50	10	08/19/15	08/19/15	1534227	
Methyl tert-Butyl Ether	EPA 524.2	ND	ug/L	3.0	13	08/19/15	08/19/15	1534227	
1,1-Dichloroethane (1,1-DCA)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
cis-1,2-Dichloroethylene (c-1,2-DCE)	EPA 524.2	ND	ug/L	0.50	6	08/19/15	08/19/15	1534227	
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	

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Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1202
4176 Warbler Rd	Sub Project: Title 22	Received: 08/13/15 18:10
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 08/28/15

Center Well- Dairy **15H1202-01 (Water)** **Sample Date:** 08/13/15 14:45 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses									
Tetrachloroethylene (PCE)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
1,1,2-Trichloroethane (1,1,2-TCA)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
Dibromochloromethane	EPA 524.2	ND	ug/L	1.0		08/19/15	08/19/15	1534227	
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	ug/L	0.50	70	08/19/15	08/19/15	1534227	
Ethyl Benzene	EPA 524.2	ND	ug/L	0.50	300	08/19/15	08/19/15	1534227	
m,p-Xylene	EPA 524.2	ND	ug/L	1.0		08/19/15	08/19/15	1534227	
cis-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50		08/19/15	08/19/15	1534227	
o-Xylene	EPA 524.2	ND	ug/L	0.50		08/19/15	08/19/15	1534227	
trans-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50		08/19/15	08/19/15	1534227	
Styrene	EPA 524.2	ND	ug/L	0.50	100	08/19/15	08/19/15	1534227	
Bromoform	EPA 524.2	ND	ug/L	1.0		08/19/15	08/19/15	1534227	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50		08/19/15	08/19/15	1534227	
1,4-Dichlorobenzene (p-DCB)	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
1,2-Dichlorobenzene (o-DCB)	EPA 524.2	ND	ug/L	0.50	600	08/19/15	08/19/15	1534227	
1,2,4-Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	5	08/19/15	08/19/15	1534227	
Total 1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	0.5	08/19/15	08/19/15	1534227	
Total Trihalomethanes (TTHM)	EPA 524.2	2.2	ug/L	1.0	80	08/19/15	08/19/15	1534227	
Total Xylenes (m,p & o)	EPA 524.2	ND	ug/L	0.50	1750	08/19/15	08/19/15	1534227	
Surrogate: Bromofluorobenzene	*EPA 524.2*	*89 %*				*08/19/15*	*08/19/15*	*1534227*	
Surrogate: 1,2-Dichlorobenzene-d4	*EPA 524.2*	*80 %*				*08/19/15*	*08/19/15*	*1534227*	
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	0.020	0.05	08/18/15	08/18/15	1534046	
Dibromochloropropane (DBCP)	EPA 504.1	ND	ug/L	0.010	0.2	08/18/15	08/18/15	1534046	
Semi-Volatile Organic Analyses									
Endrin	EPA 508.1	ND	ug/L	0.10	2	08/14/15	08/23/15	1533610	
Lindane (gamma-BHC)	EPA 508.1	ND	ug/L	0.20	0.2	08/14/15	08/23/15	1533610	
Methoxychlor	EPA 508.1	ND	ug/L	10	30	08/14/15	08/23/15	1533610	
Toxaphene	EPA 508.1	ND	ug/L	1.0	3	08/14/15	08/23/15	1533610	
Chlordane	EPA 508.1	ND	ug/L	0.10	0.1	08/14/15	08/23/15	1533610	
Heptachlor	EPA 508.1	ND	ug/L	0.010	0.01	08/14/15	08/23/15	1533610	
Heptachlor Epoxide	EPA 508.1	ND	ug/L	0.010	0.01	08/14/15	08/23/15	1533610	
Hexachlorobenzene	EPA 508.1	ND	ug/L	0.50	1	08/14/15	08/23/15	1533610	
Hexachlorocyclopentadiene	EPA 508.1	ND	ug/L	1.0	50	08/14/15	08/23/15	1533610	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	ug/L	0.50	0.5	08/14/15	08/23/15	1533610	
Surrogate: Dibutylchlorendate	*EPA 508.1*	*72 %*				*08/14/15*	*08/23/15*	*1533610*	
Dalapon	EPA 515.4	ND	ug/L	10	200	08/21/15	08/26/15	1534539	
2,4,5-TP (SILVEX)	EPA 515.4	ND	ug/L	1.0	50	08/21/15	08/26/15	1534539	
Bentazon (BASAGRAN)	EPA 515.4	ND	ug/L	2.0	18	08/21/15	08/26/15	1534539	
Picloram	EPA 515.4	ND	ug/L	1.0	500	08/21/15	08/26/15	1534539	
2,4-D	EPA 515.4	ND	ug/L	10	70	08/21/15	08/26/15	1534539	

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Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1202
4176 Warbler Rd	Sub Project: Title 22	Received: 08/13/15 18:10
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 08/28/15

Center Well- Dairy **15H1202-01 (Water)** **Sample Date:** 08/13/15 14:45 **Sampler:** Sean 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	1	08/21/15	08/26/15	1534539	
Dinoseb (DNBP)	EPA 515.4	ND	ug/L	2.0	7	08/21/15	08/26/15	1534539	
Surrogate: 2,4-Dichlorophenylacetic 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	1	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	ug/L	3.0	4	08/17/15	08/18/15	1534015	
Di(2-ethylhexyl) 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	ug/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	*EPA 525.2*	*106 %*				*08/17/15*	*08/18/15*	*1534015*	
Surrogate: Perylene-d12	*EPA 525.2*	*105 %*				*08/17/15*	*08/18/15*	*1534015*	
Surrogate: Triphenylphosphate	*EPA 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	ug/L	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 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

Bob Glaubig

Bob Glaubig

Laboratory Director

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: 321517313
Customer ID: 32CLIN51
Customer PO:
Project ID:

Attn: Bob Glaubig
Clinical Laboratory of San Bernardino
PO BOX 329
San Bernardino, CA 92402

Phone: (909) 825-7693
Fax:
Collected: 08/13/2015
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)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm^2)	Area Analyzed (mm^2)	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
CENTER WELL - DAIRY 321517313-0001	8/14/2015 05:00 PM	30	1288	0.2244	None Detected	ND	0.19	<0.19	0.00 - 0.71

Analyst(s)
Sherrie Ahmad (1)

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

Any questions please contact Jerry Drapala.

Initial report from: 08/28/2015 01:56:57

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

OrderID: 321517313

321517313

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15H1202

SENDING 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

RECEIVING LABORATORY:

LA Testing
520 Mission Street
South Pasadena, CA 91030
Phone :(323) 254-9960
Fax: (323) 254-9982

Please email results to Project Manager: Bob Glaubig
[✓] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [ ] styles@clinical-lab.com [ ] cole@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [✓] No
Transfer File requested; log in with Element ID only [ ] Yes [✓] No

Turn Around Time [✓] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: Center Well- Dairy / 15I1202-01	**Sampled: 08/13/15 14:45 PS Code:** **Water** **WTX ID:** **UCMR ID:**
Asbestos EPA 100.2	
Containers Supplied:	
1 Quart Plastic (J)	

Temp @ 3°C

Released By	Date / Time	Received By	Date / Time
BJ Dy	08/14/15 8:15	Henry Chapparro	8/14/15 9:15
Henry Chapparro	8/14/15 1130	CRodriguez (WI)	8/14/15 11:30AM

Certificate of Analysis

Report Date: 09/08/15 13:41
Received Date: 08/14/15 10:40
Turnaround Time: Normal

Project: 15H1202

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 8/14/2015 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 **Sample ID:** Center Well- Dairy / 15H1202-01 **Matrix:** Water
Sampled by: Client **Sampled:** 08/13/15 14:45

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	
Diquat	ND		4.0	ug/l	1	EPA 549.2	8/17/15	8/31/15 16:50	W5H0870	

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 Analyzed: 08/31/15 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 Analyzed: 08/31/15 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) — Source: 5H14006-01 Prepared: 08/17/15 Analyzed: 08/31/15 16:29

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	17.5		ug/l	20.0	88	46-122		

Matrix Spike Dup (W5H0870-MSD1) — Source: 5H14006-01 Prepared: 08/17/15 Analyzed: 08/31/15 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) — Prepared: 08/14/15 Analyzed: 08/17/15 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/l					

LCS (W5H0794-BS1) — Prepared: 08/14/15 Analyzed: 08/17/15 18:27

Analyte	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) — Prepared: 08/14/15 Analyzed: 08/17/15 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

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 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).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino SH14030

15H1202

SENDING 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

RECEIVING LABORATORY:

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
[✓] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [ ] styles@clinical-lab.com [ ] cole@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [✓] No
Transfer File requested; log in with Element ID only [ ] Yes [✓] No

Turn Around Time [✓] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

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	

Containers Supplied:

1 L Amber Plastic Na Thio EPA 549 (V) 1 L Amber Glass Na Thio EPA 1613 (W) 1 L Amber Glass Na Thio EPA 1613 (X)

3.1

Released By	Date / Time	Received By	Date / Time
[signature]	08/14/15 8:15	[signature]	8/14/15 / 9:15
[signature]	8/14/15 1038	[signature]	8.14.15 10:40

Clinical Lab of San Bernardino, Inc.

of Containers Bacti / GP / Other 1 / 1 / 18

dy

WO 1511202

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	Phelan Pinon Hills CSD
Address:	4176 Warbler Rd. Phelan, CA. 92371
Client Contact:	Sean Wright
Phone No.:	760-868-1212 FAX No.: 760-868-1313
System No.:	3610120
Project:	Title 22
Sampled By:	Sean Wright
Comments:	

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Gen Min / Corrosivity / Cr+6	Inorganic Chemical / Gen Phy	Gross Alpha / Asbestos	Volatile Organic / EDB, DBCP	Chlor. Pesticide / Herbicide	DEHP/DEHA/PAH/Triazine	Carbamate Pesticide	Glyphosate / Endothall	Diquat	Dioxin	Comments	Turn Around Time (TAT)
																	Analysis Requested											
8-13-15	2:45Pm	Center Well - Dairy				5	7		2		3		1		1	19	X	X	X	X	X	X	X	X	X	X	No HCl added to EPA to 504, 524	
																	1 - 1/2 gallon plastic	1 - pint plastic / 1 - gen phys glass	1 - 1/2 gallon plastic / 1 - quart plastic	2 - EPA 524 vials / 2 - EPA 504 vials	1 - EPA 508 amber / 1 - EPA 515 amber	2 - EPA 525 ambers	1 - EPA 531 amber	1 - EPA 547 amber / 1 - EPA 548 amber	1 - EPA 549 amber	2 - EPA 1613 ambers		

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Sean Wright / PPHCSD	8-13-15/2:55Pm		
	ERNESTO ARRIOLA / PPHCSD	8-13-15/1538		HESCobar / GMT
Melinda Furnas	Melinda Furnas CLW	8 13 15 18:10		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [X] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 18.0 °C

Page __ of __

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Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 15H1200
4176 Warbler Rd	Sub Project: Dairy- Center Well	Received: 08/13/15 18:10
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 08/25/15

Center Well- 1hr @ 200 gpm **15H1200-01 (Water)** **Sample Date:** 08/13/15 9:00 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	08/13/15	08/17/15	1533539	

Center Well- 2hr @ 300 gpm **15H1200-02 (Water)** **Sample Date:** 08/13/15 10:00 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	08/13/15	08/17/15	1533539	

Center Well- 3hr @ 400 gpm **15H1200-03 (Water)** **Sample Date:** 08/13/15 11:00 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Chromium (+6)	EPA 218.6	ND	ug/L	1.0	10	08/13/15	08/17/15	1533539	

Center Well- 4hr @ 650 gpm **15H1200-04 (Water)** **Sample Date:** 08/13/15 12:00 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Chromium (+6)	EPA 218.6	**1.0**	ug/L	1.0	10	08/13/15	08/17/15	1533539	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Glaubig

Bob Glaubig

Laboratory Director

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

PSH1206

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

Chain of Custody

of Containers Bacti / GP / Other 1 / 1 / 4

Client	Phelan Pinion Hills CSD			Client Job No.	
Address	4176 Warbler Rd.				
	Phelan, CA 92371				
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323	Destination Laboratory	
Contact	Sean Wright	Cell No.	(760) 885-7255	[x] Geo-Monitor, Inc	
System No.	3610120			[ ] Other:	
Project Name:	Dairy- Center Well				
Sampled By	Sean Wright				
Comments	Chromium 6- In House only				

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	Chromium 6 - In House	Cr6 - Special	Turn Around Time
8-13-15	9AM	center well - 1 hr @ 200 gpm	W	1	3	4-U	X		
8-13-15	10Am	center well - 2 hr @ 300 gpm		2	3	4-U	X		
8-13-15	11 Am	center well - 3 hr @ 400 gpm		3	3	4-U	X		
8-13-15	12 Pm	center well - 4 hr @ 650 gpm	↓	4	3	4-U	X		

Preservatives: (1) $Na_2S_2O_3$ (3) Cold (2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Sean Wright /PPHCSD	8-13-15 / 2:55 pm		
	ERNESTO ARAIZA/PPHCSD	8-13-15 1538		KEscobar / GMI
	Melinda Furnas CLSB	8 13 15 1810		& My Cusp

Rec'd at Lab By: Rec'd Date / Time: Comments: 18.0 C

Rec'd on Ice Yes ✓ No ____ Rec'd Intact Yes ✓ No ____ Receipt Temperature: 21.0° C

Shipped Via | | Fed X | | Golden State | | UPS | | Client | | Other ____ Page ____ of ____

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15 H 1652

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

Chain of Custody

of Containers Bacti / GP / Other 1 / ___ / ___

Client	Phelan Pinion Hills CSD			Client Job No.	
Address	4176 Warbler Rd.				
	Phelan, CA 92371				
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323	Destination Laboratory	
Contact	Sean Wright	Cell No.	(760) 885-7255	[x] Geo-Monitor, Inc	
System No.	3610120			[ ] Other:	
Project Name:	Dairy- Center Well				
Sampled By	Sean Wright				
Comments	Special in house - Only				

Analysis Requested: Total Coliform (P/A) — IN - House Only

Turn Around Time

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	
6-13-15	2:45 pm	Center well		1		G-W	X

Preservatives: (1) $Na_2S_2O_3$ (3) Cold (2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Sean Wright /PPHCSD	6-13-15 / 2:55 pm		
	ERNESTO ARAIZA/PPHCSD	6-13-15 1538		K Escobar / GMI

Rec'd at Lab By:		Rec'd Date / Time:	Comments:
Rec'd on Ice Yes ✓ No ___	Rec'd Intact Yes ✓ No ___	Receipt Temperature: 16.9°C	
Shipped Via	| | Fed X | | Golden State | | UPS | | Client | | Other ___		Page ___ of ___

Geo-Monitor, Inc.

Client:	Phelan Pinion Hills CSD 4176 Warbler Rd. Phelan, CA 92371	*Contact:* *Phone:* *Fax:* *System #*	Sean Wright (760) 868-1212 (760) 868-2323 3610120
Project:	Dairy- Center Well		
Sampler:	Sean Wright		
Date Sampled:	August 13, 2015		
Date/Time Setup:	August 13, 2015 1630		
Date/Time Read:	August 14, 2015 1030		
Date Reported:	August 17, 2015		

Results

Laboratory ID	*Sample Time*	*Sample Location*	*Cl Res (mg/L)*	*Sample Type*	*SM 9223 Total Coliform*	*SM 9223 E. coli*	*SM 9215B HPC 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: BJ

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

Chain of Custody

of Containers Bacti / GP / Other 1 / ___ / ___

Client	Phelan Pinion Hills CSD			Client Job No.	
Address	4176 Warbler Rd.				
	Phelan, CA 92371				
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323	Destination Laboratory	
Contact	Sean Wright	Cell No.	(760) 885-7255	[x] Geo-Monitor, Inc	
System No.	3610120			[ ] Other:	
Project Name:	Dairy- Center Well				
Sampled By	Sean Wright				
Comments	Special in house - Only				

Analysis Requested: Total Coliform (P/A) - House Only

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	Total Coliform (P/A) - House Only	Turn Around Time
6-13-15	2:45 pm	Center well		1		4-W	X	

Preservatives: (1) $Na_2S_2O_3$ (3) Cold (2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Sean Wright /PPHCSD	6-13-15 / 2:55 pm		
	ERNESTO ARAIZA/PPHCSD	6-13-15 1538		KESCobar / GMI

Rec'd at Lab By: Rec'd Date / Time: Comments:

Rec'd on Ice Yes ✓ No ___ Rec'd Intact Yes ✓ No ___ Receipt Temperature: 16.9°C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other ___ Page ___ of ___

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

Chain of Custody

of Containers Bacti / GP / Other 1 / 1 / 4

Client	Phelan Pinion Hills CSD			Client Job No.
Address	4176 Warbler Rd.			
	Phelan, CA 92371			
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323	Destination Laboratory
Contact	Sean Wright	Cell No.	(760) 885-7255	[x] Geo-Monitor, Inc
System No.	3610120			[ ] Other:
Project Name:	Dairy- Center Well			
Sampled By	Sean Wright			
Comments	Chromium 6- In House only			

Date	Time	Sample Identification	Matrix	No.	Pres.	Type
8-13-15	9 AM	center well - 1 hr @ 200 gpm		1		4-U
8-13-15	10 Am	center well - 2 hr @ 300 gpm		2		4-U
8-13-15	11 Am	center well - 3 hr @ 400 gpm		3		4-U
8-13-15	12 Pm	center well - 4 hr @ 650 gpm		4		4-W

Analysis Requested

Chromium 6 - In House	Nitrate - Special	Turn Around Time
X		
X		
X		
X		

Preservatives: (1) $Na_2S_2O_3$ (2) H_2SO_4/HNO3 (3) Cold (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Sean Wright /PPHCSD	8-13-15 / 2:55 pm		
	ERNESTO ARAIZA/PPHCSD	8-13-15 1538		KEscobar / GMI

Rec'd at Lab By:	Rec'd Date / Time:	Comments:
Rec'd on Ice Yes ✓ No ____	Rec'd Intact Yes ✓ No ____	Receipt Temperature: 21.0° C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other _____ Page ____ of ____

Clinical Lab of San Bernardino, Inc.

of Containers: _1_ / _1_ / _18_ Bacti / GP / Other — …ody — WO ______

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client: Phelan Pinion Hills CSD
Address: 4176 Warbler Rd.
Phelan, CA, 92371
Client Contact: Sean Wright
Phone No.: 760-868-1212 **FAX No.:** 760-868-2323
System No.: 3610120
Project: Title 22
Sampled By: Sean Wright
Comments:

Destination Laboratory
[ ] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Analysis Requested — Comments: No HCl added to EPA to 504, 524

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Gen Min / Corrosivity / Cr+6	Inorganic Chemical / Gen Phy	Gross Alpha / Asbestos	Volatile Organic / EDB, DBCP	Chlor. Pesticide / Herbicide	DEHP/DEHA/PAH/Triazine	Carbamate Pesticide	Glyphosate / Endothall	Diquat	Dioxin	Turn Around Time (TAT)
8-13-15	2:45Pm	Center Well-Dairy				5	7		2		3		1		1	19	X	X	X	X	X	X	X	X	X	X	
																	1 - 1/2 gallon plastic	1 - pint plastic / 1 - gen phys glass	1 - 1/2 gallon plastic / 1 - quart plastic	2 - EPA 524 vials / 2 - EPA 504 vials	1 - EPA 508 amber / 1 - EPA 515 amber	2 - EPA 525 ambers	1 - EPA 531 amber	1 - EPA 547 amber / 1 - EPA 548 amber	1 - EPA 549 amber	2 - EPA 1613 ambers	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other ____
Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well
TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	Sean Wright / PPHCSD	8-13-15 / 2:55Pm	[signature]	
[signature]	ERNESTO ARAUJO / PPHCSD	8-13-15 / 1538	[signature]	VEscobar / GMI

(Lab Use Only) Lompoc Lab Receipt Temp.: ______ °C
Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other ____
Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: ____ Work Order Logged By: ____
Receipt Comments: Clinical Lab Receipt Temp.: ____ °C

Page __ of __

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 13A1324
4176 Warbler Rd	Sub Project: Dairy Wells	Received: 01/16/13 17:25
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 01/30/13

Dairy Center Well (NIS) **13A1324-01 (Water)** **Sample Date:** 01/16/13 9:40 **Sampler:** Brian Gerke

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	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	54	mg/L	5.0		01/18/13	01/18/13	1303381	
Bicarbonate (HCO3)	SM 2320 B	65	mg/L	5.0		01/18/13	01/18/13	1303381	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13	1303381	
Chloride (Cl)	EPA 300.0	8.3	mg/L	1.0	500	01/17/13	01/17/13	1303344	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	01/21/13	01/21/13	1304006	
Specific Conductance (E.C.)	SM 2510B	610	umhos/cm	2.0	1600	01/18/13	01/18/13	1303381	
Fluoride (F)	EPA 300.0	0.33	mg/L	0.10	2	01/17/13	01/17/13	1303344	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13	1303381	
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	4.6	mg/L	2.0	45	01/17/13	01/17/13	1303344	
Nitrate + Nitrite (as N)	EPA 300.0	1000	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	8.3	pH Units			01/17/13	01/17/13	1303381	
Sulfate (SO4)	EPA 300.0	220	mg/L	0.50	500	01/17/13	01/17/13	1303344	
Total Filterable Residue/TDS	SM 2540C	390	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	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	
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	01/23/13	01/23/13	1304135	
Boron (B)	EPA 200.7	ND	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	41	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	670	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	4.3	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	3.3	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	82	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	

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

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 13A1324
4176 Warbler Rd	Sub Project: Dairy Wells	Received: 01/16/13 17:25
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 01/30/13

Dairy Center Well (NIS) **13A1324-01 (Water)** **Sample Date:** 01/16/13 9:40 **Sampler:** Brian Gerke

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	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	meq/L			01/22/13	01/22/13	[CALC]	
% difference	Calculated	1.5				01/22/13	01/18/13	[CALC]	

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

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'	
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'	

8/14/2015	8:19:00 AM	500	355'	55'	
8/14/2015	8:21:00 AM	500	373'	73'	
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'	
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'	

Center Well 8-13-15

Length of Pump 493

7:31 Am static level @ 300 Ft

7:47 Am Power up motor

7:49 Am Well @ 400 gpm

7:49 to 8:00 Am stabilizing to 200 gpm @ ~~331~~ Ft. bgs sand ± 331

8:00 Am to 8:15 Pumping @ 200 gpm @ 331 bgs sand 0

8:15 to 8:30 Pumping @ 200 gpm @ 331 bgs sand 0

8:30 to 8:45 Pumping @ 200 gpm @ 331 bgs sand 0

8:45 to 9 Pumping @ 200 gpm @ 331 bgs sand 0

9 Am chromium 6 sample taken

9 Am Well ramped up to 300 gpm @ 354 bgs sand 0

9:00 to 9:15 Pumping @ 300 gpm @ 354 bgs sand 0

9:15 to 9:30 Pumping @ 300 gpm @ 354 bgs sand 0

9:30 to 9:45 Pumping @ 300 gpm @ 354 bgs sand 0

9:45 to 10 Pumping @ 300 gpm @ 354 bgs sand 0

10 Am chromium 6 sample taken

10 Am Well ramped up to @ 400 gpm @ 377 sand 0.01
water has light brown tint

10:07 Tinting of brown diminished

10:15 Well @ 400 gpm @ 377 bgs sand 0.01

10:30 Well @ 400 gpm @ 377 bgs sand 0.01

10:45 Well @ 400 gpm @ 377 bgs sand 0.01

11 Well @ 400 gpm @ 377 bgs sand 0.01

11 Chromium 6 sample

11:15 Well @ 650 gpm @ 405 bgs sand 0 ✓

Cathy Beardsley - 8405 mesquite bottle on rocking chair on front porch
Water only discolored @ start-up for

Target 650

Date 8-13-15

Center Well

Static = 300

Read = 28995

>Pi		pumping		Drawdown	Specific capacity
125	11 AM	396		96	6.77
150	11:02	400		100	6.5
150	11:04	401		101	6.43
150	11:06	403		103	6.31
150	11:08	405		105	6.19
150	11:10	405		105	6.19
150	11:15	405		105	6.19
150	11:20	405		105	6.19
650	11:30	405		105	6.19
650	11:45	409		109	5.96
650	12:00	409		109	5.96
650	12:15	412		112	5.80
650	12:30	419		119	5.46
650	1	421		121	5.37
650	1:30	423		123	5.28
650	2:00	428		128	5.07
650	2:30	428		128	5.07
650	3:00	433		133	4.88
500	3:10	428	Meter: 30564	128	5.07
~~650~~ 500	3:30 3:45	437 435	meter: 30756	137 135	4.74 3.70
500	4:00	432		132	~~3.79~~ 3.85
500	4:30	430		130	3.85
500	5:00	430		130	3.85
500	5:30	430		130	3.85
500	6:00	~~430~~	calibrate: 31246	130	3.85

2713 code

4-13-15 Center Well

	PH	Temp	Cond	TD
11:10	8.43	25.5°C	565	
12:10	8.40	25.3°C	568	
1:10	8.41	25.9°C	555	
2:10	8.40	25.9°C	570	
3:10	8.46	26.1°C	604/308	
4:10	8.39	25.8°C	564/299	
5:10	8.43	25.9°C	551/299	

8-14-15

Canter Well

Static = 308

meter = 31248

Pump level = 493

GPM		Pumping	drawdown	Specific cap	
500	8:15	341	33	15.15	
500	8:17	353	45	11.11	
500	8:19	355	47	10.63	
500	8:21	373	65	7.69	
500	8:23	373	65	7.69	
500	8:26	372	64	7.81	
500	8:33	377	69	7.25	
500	8:38	377	69	7.25	
500	8:43	382	74	6.75	
500	8:58	384	76	6.57	
500	9:13	390	82	6.09	
500	9:28	395	87	5.74	
500	9:43	397	89	5.62	
500	9:58	400	92	5.43	
500	10:13	405	97	5.15	
500	10:28	412	104	4.81	slight tint, slight oxy
500	10:43	412	104	4.81	moderate oxy
500	10:58	412	104	4.81	
500	11:15	416	108	4.62	
500	11:30	419	111	4.50	
500	11:45	421	113	4.42	
500	12:00	421	113	4.42	
500	12:15	422	114	4.39	
500	12:30	423	115	4.35	
500	1:00	426	120	4.16	moderate oxy
500	1:30	430	122	4.10	
500	2:09	431	123	4.07	

8-14-15

Center Well

Time	PH	Temp	Cond/ TDS
8:25	8.59	25.6°C	560/274
8:40	8.45	24.7°C	614/305
8:55	8.44	24.6°C	617/315
9:30	8.34	24.7°C	650/309
10:30	8.43	25.5°C	625/305
11:30	8.40	25.6°C	621/301
12:30	8.41	25.8°C	630/307
1:30	8.39	25.7°C	626/298
3:15	8.47	25.9°C	484/225
4:15	8.42	24.6°C	505/243
5:00	8.36	25.6°C	546/271
6:00	8.34	25.4	616/311

July 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						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	4 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	6 • 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 @ 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	8 • COMMUNITY GARDEN CLASSES- MULCH / WATER WISELY 10:00am - 11:00am @ PHELAN PARK
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 @ PINON 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 PARK • PHELAN SENIOR CLUB DAY 10:30am - 4:00pm @ PHELAN SENIOR CENTER	12 • CANCELLED - REGULAR BOARD MEETING 5:00pm - 8:00pm @ 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 SENIOR CLUB DAY 11:00am - 3:00pm @ PINON HILLS COMMUNITY CENTER	14 • 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	15 • Alcoholics Anonymous Club Anniversary Event 11:00am - 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 COMMUNITY CENTER	19 • ENGINEERING COMMITTEE- CANCELLED 4:30pm - 5:30pm @ 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 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	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 @ PHELAN PARK • PPHCSD Private Event 10:00am - 2:00pm @ PHELAN COMMUNITY CENTER • PHELAN SENIOR CLUB DAY 10:30am - 4:00pm @ PHELAN SENIOR CENTER • SPECIAL FINANCE COMMITTEE MEETING 4:00pm - 5:00pm @ PHELAN COMMUNITY CENTER	26 • PHELAN SENIORSGAME DAY 9:30am - 3:00pm @ PHELAN SENIOR CENTER • REGULAR BOARD MEETING 5:00pm - 8:00pm @ PHELAN COMMUNITY CENTER	27 • 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	28 • 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	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 - 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 @					

● SHEPARDS CALL BAPTIST CHURCH 9:00am - 1:00pm @ PINON HILLS COMMUNITY CENTER	PHELAN COMMUNITY CENTER ● FARMER'S MARKET 2:00pm - 6:00pm @ PHELAN SENIOR 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

Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017

Phelan Pinon Hills CSD	Project: Routine	Work Order: 19J1384
4176 Warbler Rd	Sub Project: Well 23 Title 22	Received: 10/15/19 15:40
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

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Temperature (Field)	Field	20.0			°C	10/14/19	10/14/19	1942039	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/15/19	10/15/19	1942116	
Odor Threshold	EPA 140.1-M	1	1	3	TON	10/15/19	10/15/19	1942116	
Turbidity	EPA 180.1	1.8	0.1	5	NTU	10/15/19	10/15/19	1942116	
General Chemical Analyses									
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 2320B	ND	5.0		mg/L	10/21/19	10/21/19	1942039	
Chloride (Cl)	EPA 300.0	1.6	1.0	500	mg/L	10/15/19	10/15/19	1942033	
Langelier Index at Source Tmp	SM 203	-0.005				10/14/19	10/14/19	1942039	
Langelier Index at 60 C	SM 203	0.60				10/14/19	10/14/19	1942039	
Aggressive Index	SM 203	11.81				10/14/19	10/14/19	1942039	
Cyanide (CN)	SM4500CNF	ND	100	150	ug/L	10/17/19	10/17/19	1942128	
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	10/15/19	10/15/19	1942033	
Hydroxide (OH)	SM 2320B	ND	5.0		mg/L	10/21/19	10/21/19	1942039	
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	
Nitrite as N (NO2-N)	EPA 300.0	ND	0.40	1	mg/L	10/15/19	10/15/19	1942033	
Perchlorate (ClO4)	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	
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	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	1943048	
Beryllium (Be)	EPA 200.8	ND	1.0	4	ug/L	10/22/19	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	1.0	5	ug/L	10/22/19	10/22/19	1943040	
Calcium (Ca)	EPA 200.7	22	1.0		mg/L	10/23/19	10/23/19	1943074	

Bob Glaubig
Laboratory Director

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

Phelan Pinon Hills CSD	Project: Routine	Work Order: 19J1384
4176 Warbler Rd	Sub Project: Well 23 Title 22	Received: 10/15/19 15:40
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

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	
Chromium (Total Cr)	EPA 200.8	ND	10	50	ug/L	10/22/19	10/22/19	1943040	
Copper (Cu)	EPA 200.7	ND	50	1000	ug/L	10/22/19	10/22/19	1943048	
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	
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	
Anion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	65			mg/L	10/23/19	10/23/19	[CALC]	
Total Anions	Calculated	5.06			meq/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]	
Radiochemistry 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			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	
Volatile Organic Analyses									
Vinyl Chloride (VC)	EPA 524.2	ND	0.50	0.5	ug/L	10/18/19	10/19/19	1942165	
Trichlorofluoromethane (FREON 11)	EPA 524.2	ND	5.0	150	ug/L	10/18/19	10/19/19	1942165	
1,1-Dichloroethylene (1,1-DCE)	EPA 524.2	ND	0.50	6	ug/L	10/18/19	10/19/19	1942165	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	1200	ug/L	10/18/19	10/19/19	1942165	
Dichloromethane (Methylene Chloride)	EPA 524.2	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	
trans-1,2-Dichloroethylene (t-1,2-DCE)	EPA 524.2	ND	0.50	10	ug/L	10/18/19	10/19/19	1942165	

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Phelan Pinon Hills CSD	Project: Routine	Work Order: 19J1384
4176 Warbler Rd	Sub Project: Well 23 Title 22	Received: 10/15/19 15:40
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

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	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	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 524.2	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	
1,2-Dichloropropane	EPA 524.2	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	
Bromodichloromethane	EPA 524.2	ND	1.0		ug/L	10/18/19	10/19/19	1942165	
Toluene	EPA 524.2	ND	0.50	150	ug/L	10/18/19	10/19/19	1942165	
Tetrachloroethylene (PCE)	EPA 524.2	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	
1,1,2-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		ug/L	10/18/19	10/19/19	1942165	
Monochlorobenzene (Chlorobenzene)	EPA 524.2	ND	0.50	70	ug/L	10/18/19	10/19/19	1942165	
Ethyl Benzene	EPA 524.2	ND	0.50	300	ug/L	10/18/19	10/19/19	1942165	
m,p-Xylene	EPA 524.2	ND	1.0		ug/L	10/18/19	10/19/19	1942165	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50		ug/L	10/18/19	10/19/19	1942165	
o-Xylene	EPA 524.2	ND	0.50		ug/L	10/18/19	10/19/19	1942165	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50		ug/L	10/18/19	10/19/19	1942165	
Styrene	EPA 524.2	ND	0.50	100	ug/L	10/18/19	10/19/19	1942165	
Bromoform	EPA 524.2	ND	1.0		ug/L	10/18/19	10/19/19	1942165	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50		ug/L	10/18/19	10/19/19	1942165	
1,4-Dichlorobenzene (p-DCB)	EPA 524.2	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	
1,2-Dichlorobenzene (o-DCB)	EPA 524.2	ND	0.50	600	ug/L	10/18/19	10/19/19	1942165	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	5	ug/L	10/18/19	10/19/19	1942165	
Total 1,3-Dichloropropene	EPA 524.2	ND	0.50	0.5	ug/L	10/18/19	10/19/19	1942165	
Total Trihalomethanes (TTHM)	EPA 524.2	ND	1.0	80	ug/L	10/18/19	10/19/19	1942165	
Total Xylenes (m,p & o)	EPA 524.2	ND	0.50	1750	ug/L	10/18/19	10/19/19	1942165	
Surrogate: Bromofluorobenzene	*EPA 524.2*	*76 %*				*10/18/19*	*10/19/19*	*1942165*	
Surrogate: 1,2-Dichlorobenzene-d4	*EPA 524.2*	*71 %*				*10/18/19*	*10/19/19*	*1942165*	
Semi-Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	0.05	ug/L	10/24/19	10/25/19	1943117	

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4176 Warbler Rd	Sub Project: Well 23 Title 22	Received: 10/15/19 15:40
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

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	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 524M-TCP	ND	0.0050	0.005	ug/L	10/15/19	10/16/19	1942054	
Synthetic Organic Analyses									
Endrin	EPA 508.1	ND	0.10	2	ug/L	10/23/19	10/31/19	1943086	
Lindane (gamma-BHC)	EPA 508.1	ND	0.20	0.2	ug/L	10/23/19	10/31/19	1943086	
Methoxychlor	EPA 508.1	ND	10	30	ug/L	10/23/19	10/31/19	1943086	
Toxaphene	EPA 508.1	ND	1.0	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 508.1	ND	0.010	0.01	ug/L	10/23/19	10/31/19	1943086	
Hexachlorobenzene	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 %*				*10/23/19*	*10/31/19*	*1943086*	
Dalapon	EPA 515.4	ND	10	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 525.2	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 525.2	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*	

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Clinical Laboratory of San Bernardino, Inc.

Celebrating 50 Years of Analytical Service 1967-2017

Phelan Pinon Hills CSD	Project: Routine	Work Order: 19J1384
4176 Warbler Rd	Sub Project: Well 23 Title 22	Received: 10/15/19 15:40
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

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Synthetic 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 548.1	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

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Laboratory Director

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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:

Attn: Bob Glaubig
Clinical Laboratory of San Bernardino
PO BOX 329
San Bernardino, CA 92402

Phone: (909) 825-7693
Fax:
Received: 10/16/2019
Analyzed: 10/24/2019

Proj: 19J1384

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

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							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 14:00 PM*								

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

Analyst(s)
Sherrie Ahmad (1)

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

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

OrderID: 321922407

#321922407

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

19J1384

SENDING 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

RECEIVING LABORATORY:

LA Testing
520 Mission Street
South Pasadena, CA 91030
Phone :(323) 254-9960
Fax: (323) 254-9982

Please email results to Project Manager: Bob Glaubig
[✓] glaubig@clinical-lab.com [ ] styles@clinical-lab.com [ ] bernstein@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [✓] No
Water Trax Upload Client: _____ [ ] Yes [✓] No

Turn Around Time [✓] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: Well 23 (NW Dairy) / 19J1384-01	Sampled: 10/14/19 14:00 PS Code: Water WTX ID:
Asbestos in Drinking Water EPA 100.2	Extra charge for old sample is authorized

Containers Supplied:
1 Quart Plastic (S)

DConnolly W.I.
10-16-19 11:00am

6.6 °C

Released By	10/16/19 07:30 Date / Time	Received By	10/16/19 836 Date / Time
Released By	10/16/19 10:56 Date / Time	DConnolly W.I. Received By	10-16-19 11:00 am Date / Time

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 9J16010

Project: 19J1384

Attn: Bob Glaubig

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

Report Date: 10/25/2019
Received Date: 10/16/2019
Turnaround Time: 7 workdays
Phones: (909) 825-7693
Fax: (909) 825-7696
P.O. #:
Billing Code:

Dear Bob Glaubig,

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) / 19J1384-01
9J16010-01 (Water)

Sampled: 10/14/19 14:00 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 1613B **Batch ID:** W9J1103	**Instr:** GCMS15	**Prepared:** 10/17/19 14:38			**Analyst:** EFC	
2,3,7,8-TCDD (Dioxin)	ND	5.00	pg/l	1	10/24/19 19:35	

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

Quality Control Results

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W9J1103 - EPA 3510/L-L SF										
Blank (W9J1103-BLK1)				**Prepared: 10/17/19 Analyzed: 10/24/19**						
2,3,7,8-TCDD (Dioxin)	ND	5.00	pg/l							
LCS (W9J1103-BS1)				**Prepared: 10/17/19 Analyzed: 10/24/19**						
2,3,7,8-TCDD (Dioxin)	4.37	5.00	pg/l	5.00		87	50-148			
LCS Dup (W9J1103-BSD1)				**Prepared: 10/17/19 Analyzed: 10/24/19**						
2,3,7,8-TCDD (Dioxin)	6.42	5.00	pg/l	5.00		128	50-148	38	20	Q-12

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

Notes and Definitions

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

Regina Giancola
Project Manager

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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

19J1384 19J16010

SENDING 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

RECEIVING LABORATORY:

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
[✓] glaubig@clinical-lab.com [ ] styles@clinical-lab.com [ ] bernstein@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [✓] No
Water Trax Upload Client: _____ [ ] Yes [✓] No

Turn Around Time [✓] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
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:	
1 L Amber Glass Na Thio (A)	1 L Amber Glass Na Thio (B)

Released By	Date / Time	Received By	Date / Time
[signature]	10/16/19 07:30	[signature]	10/16/19 8:36
[signature]	10/16/19 1011	[signature]	10/16/19 2011 4.3°C TOLL

Clinical Lab of San Bernardino, Inc. 0A(1)(21) Chain of Custody

WO 19J1B34

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	PPHCSD
Address:	4176 Warbler Rd. Phelan CA 92371
Client Contact:	Sean Wright
Phone No.:	760 885-7755
System No.:	3610120
Project:	Well 23 Title 22
Sampled By:	Eric Barnes
Comments:	

Destination Laboratory

[x] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4OH/NH4SO4	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers
10/14/19	2:00pm	Well 23 (NW Dairy)				5	7	1			7		1		1	22

(Columns Unpreserved through ChlorAC: No. of Preserved Cont.)

Analysis Requested

Analysis	Requested	Containers
Gen Min / Corrosivity / Cr+6	X✓	1 - 1/2 gallon plastic / 1 - Cr+6 1/2 pint
Inorganic Chemical / Gen Phy	X✓	1 - pint plastic / 1 - gen phys glass
Gross Alpha/Uranium/Asbestos	X✓	1 - 1/2 gallon plastic / 1 - quart plastic
VOC/1,2,3-TCP/EDB,DBCP	X	4 - EPA 524 HCl vials / 2 - EPA 504 vials
Chlor. Pesticide / Herbicide	X	1 - EPA 508 amber / 1 - EPA 515 amber
DEHP/DEHA/PAH/Triazine	X	2 - EPA 525 ambers
Carbamate Pesticide	X	1 - EPA 531 amber
Glyphosate / Endothall	X	1 - EPA 547 amber / 1 - EPA 548 amber
Diquat	X	1 - EPA 549 amber
Dioxin	X	2 - EPA 1613 ambers

Comments:

Turn Around Time (TAT):

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	Eric Barnes / PPHCSD	10-14-19-15:15	Holly Rodgers [signature]	HL-GALE
[signature]	Greg NJ / GCC	10-15-19-1540	[signature]	Rebecca McLean / CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: 6.8° °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other ______

Condition: [ ] On Wet Ice [✓] On Blu Ice [✓] Intact [ ] Custody Seals Samples / COC Checked By: ______ Work Order Logged By: ______

Receipt Comments:

Clinical Lab Receipt Temp.: 5 °C

Page __ of __

Geo-Monitor, Inc.

Client:	Phelan Pinon Hills CSD 4176 Warbler Rd. Phelan, CA 92371	*Contact* Sean Wright *Phone:* (760)868-1212 *Fax:* (760)868-2323 *System* 3610120	
Project:	Well 23		
Sampler:	Eric Barnes		
Date Sampled:	October 14, 2019		
Date/Time Setup:	October 14, 2019 1700		
Date/Time Read:	October 16, 2019 1630		
Date Reported:	October 17, 2019		

Results

Laboratory ID	*Sample Time*	*Sample Location*	*Cl Res (mg/L)*	*Sample Type*	*SM 9223 Total Coliform*	*SM 9223 E. coli*	*SM 9215B HPC cfu / 1 mL*
B327	13:35	Well 23	0	1-W	Absent		4

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

Director: BJ DY

Geo-Monitor, Inc.

17152 Darwin Ave. Hesperia, CA 92340 (760) 244-3481

1-0-0

Chain of Custody

Client	Phelan Pinion Hills CSD			Client Job No.
Address	4176 Warbler Rd. Phelan, CA 92371			
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323	Destination Laboratory
Contact	Sean Wright	Cell No.	(760) 885-7255	[X] Geo-Monitor, Inc
System No.	3610120			[ ] Other:
	Well 23			
Sampled By	Eric Barnes			
Comments				

Analysis Requested: Cl2; Total Coliform - Full Plate Count

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	Cl2	Total Coliform - Full Plate Count	Turn Around Time
10/14/19	1:35pm	Well 23 327		W 1		1-W	0	X	

Preservatives: (1) $Na_2S_2O_3$ (3) Cold (2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	Eric Barnes/ PPHCSD	10-14-19 @ 15:15	Hope Kodry	HK-GME

Rec'd at Lab By: Rec'd Date / Time: Comments:

Rec'd on Ice Yes ✓ No ____ Rec'd Intact Yes ✓ No ____ Receipt Temperature: 6.8° C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other ______ Page ___ of ___

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 16G0515
4176 Warbler Rd	Sub Project: Northwest Corner Well - Step Test	Received: 07/07/16 15:35
Phelan CA, 92371	Project Manager: Sean Wright	Reported: 07/22/16

North West Corner Well - 1 hr 275 GPM — 16G0515-01 (Water) — **Sample Date:** 07/06/16 11:00 — **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.2	ug/L	2.0	10	07/18/16	07/19/16	1630012	
Chromium (+3)	[CALC]	8.8	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	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	1629399	

North West Corner Well - 2 hr 250 GPM — 16G0515-02 (Water) — **Sample Date:** 07/06/16 12:00 — **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.2	ug/L	2.0	10	07/18/16	07/19/16	1630012	
Chromium (+3)	[CALC]	2.2	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	2.2	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 - 4hr 240 GPM — 16G0515-03 (Water) — **Sample Date:** 07/06/16 14:00 — **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.3	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 - 6hr 225 FPM — 16G0515-04 (Water) — **Sample Date:** 07/06/16 16:00 — **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.3	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	

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Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 16G0515
4176 Warbler Rd	Sub Project: Northwest Corner Well - Step Test	Received: 07/07/16 15:35
Phelan CA, 92371	Project Manager: Sean Wright	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	Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.2	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 - 14hr 200 GPM — 16G0515-06 (Water) — **Sample Date:** 07/07/16 12:00 — **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Arsenic (As)	SM3113-B	4.2	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 - 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			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	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Glaubig

Bob Glaubig

Laboratory Director

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

15605.0   0701 (2)

24 other

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

Chain of Custody

Client	Phelan Pinion Hills CSD		
Address	4176 Warbler Rd. Phelan, CA 92371		
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323
Contact	Sean Wright	Cell No.	(760) 885-7255
System No.	3610120		
Project Name: Northwest Corner Well - Step Test			
Sampled By	Sean Wright		
Comments	Unable to sound: Sounder got stuck. IN House Only		

Client Job No.:

Destination Laboratory: [x] Geo-Monitor, Inc [ ] Other:

Analysis Requested / Turn Around Time

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	Chromium 6	Chromium 3	Arsenic	IN-House Only	GP (add to report)	Meter read
7/6/2016	11 Am	Northwest Corner Well - 1 Hr		1		4-W	X	X	X	X	275	554757
7/6/2016	12 Pm	Northwest Corner Well - 2 Hr		2		4-W	X	X	X	X	250	555012
7/6/2016	2 Pm	Northwest Corner Well - 4 Hr		3		4-W	X	X	X	X	240	555085
7/6/2016	4 Pm	Northwest Corner Well - 6 Hr		4		4-W	X	X	X	X	225	555165
7/6/2016	8 Pm	Northwest Corner Well - 10 Hr		5		4-W	X	X	X	X	215	555350
7/7/2016	12 Am	Northwest Corner Well - 14 Hr		6		4-W	X	X	X	X	200	555460
7/7/2016	4 AM	Northwest Corner Well - 18 Hr		7		4-W	X	X	X	X	196	555523
7/7/2016	8 AM	Northwest Corner Well - 22 Hr		8		4-W	X	X	X	X	190	555728
7/6/2016		Northwest Corner Well		9		4-W	X	X	X	X		
7/6/2016		Northwest Corner Well		10		4-W	X	X	X	X		
7/6/2016		Northwest Corner Well		11		4-W	X	X	X	X		
7/6/2016		Northwest Corner Well		12		4-W	X	X	X	X		

7-7-16 (handwritten beside rows 6–8; the dates 7/6/2016 in these rows are overwritten to 7/7/2016)

Preservatives: (1) $Na_2S_2O_3$ (3) Cold (2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	Sean Wright /PPHCSD	7-7-16 9 Am	[signature]	K Escobar / GMI
[signature]	Greg Cuthbert / OSR	7-7-16 / 15:35	[signature]	AM ASB

Rec'd at Lab By: Rec'd Date / Time: Comments:

Rec'd on Ice Yes ✓ No ____   Rec'd Intact Yes ✓ No ____   Receipt Temperature: 14.4 ° C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other ________ Page ____ of ____

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 16G0567
4176 Warbler Rd	Sub Project: Northwest Corner Well - Step Test	Received: 07/08/16 11:11
Phelan CA, 92371	Project Manager: Sean Wright	Reported: 07/22/16

North West Corner Well - 26 hr **16G0567-01 (Water)** **Sample Date:** 07/07/16 12:00 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
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	07/08/16	07/12/16	1629033	
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 - 30 hr **16G0567-02 (Water)** **Sample Date:** 07/07/16 16:00 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
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	07/08/16	07/12/16	1629033	
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	07/21/16	1629399	

North West Corner Well - 34hr **16G0567-03 (Water)** **Sample Date:** 07/07/16 20:00 **Sampler:** Sean Wright

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
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	07/08/16	07/12/16	1629033	
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	

ND Analyte NOT DETECTED at or above the reporting limit

Bob Glaubig

Laboratory Director

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

Geo-Monitor, Inc.

17152 Darwin Ave Hesperia, CA 92340 (760) 244-3481

~0567 0/0/6

Chain of Custody

Cooney

Client	Phelan Pinion Hills CSD		
Address	4176 Warbler Rd. Phelan, CA 92371		
Phone No.	(760) 868-1212	Fax No.	(760) 868-2323
Contact	Sean Wright	Cell No.	(760) 885-7255
System No.	3610120		
Project Name:	Northwest Corner Well - Step test		
Sampled By	Sean Wright		
Comments	In House Only unable to sound, sounder got stuck		

Client Job No.:

Destination Laboratory:
[x] Geo-Monitor, Inc
[ ] Other:

Analysis Requested

Date	Time	Sample Identification	Matrix	No.	Pres.	Type	Chromium 6	Chromium 3	~~Arsenic~~	IN HOUSE ONLY	GPM	METER READ
7/7/2016	12 Pm	Northwest Corner Well - 26 Hr	W	21	3	Y-W	X	X	X	X	170	555856
7/7/2016	4 Pm	Northwest Corner Well - 30 Hr	↓	22	3	Y-W	X	X	X	X	180	555783
7/7/2016	8 Pm	Northwest Corner Well - 34 Hr	↓	23	3	Y-W	X	X	X	X	180	556106
7/7/2016		Northwest Corner Well		4			X	X	X	X		
7/7/2016		Northwest Corner Well		5			X	X	X	X		
7/7/2016		Northwest Corner Well		6			X	X	X	X		
7/7/2016		Northwest Corner Well		7			X	X	X	X		
7/7/2016		Northwest Corner Well		8			X	X	X	X		
7/7/2016		Northwest Corner Well		9			X	X	X	X		
7/7/2016		Northwest Corner Well		10			X	X	X	X		
7/7/2016		Northwest Corner Well		11			X	X	X	X		
7/7/2016		Northwest Corner Well		12			X	X	X	X		

Turn Around Time

Preservatives: (1) $Na_2S_2O_3$ (3) Cold (2) H_2SO_4/HNO3 (4)

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

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	Sean Wright /PPHCSD	7-8-16 / 4:50 Am	[signature]	K Escobar / GMI
[signature]	Greg Whitlock	7-8-16 / 11:11	[signature]	

Rec'd at Lab By: ✓

Rec'd Date / Time:

Comments:

Rec'd on Ice Yes ✓ No ____ Rec'd Intact Yes ✓ No ____ Receipt Temperature: 12.9°C

Shipped Via [ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other ____ Page ____ of ____

DAIRY NW CORNER WELL

06N07W26K03

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. e007893

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO
LATITUDE LONGITUDE
APN/TRS/OTHER

Page 1 of 1

Owner's Well No. MEADOWBROOK

Date Work Began 9/5/08, Ended 9/25/08

Local Permit Agency SAN BERNARDINO COUNTY

Permit No. WP-5144 Permit Date 8/12/08

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL — HORIZONTAL — ANGLE — (SPECIFY)

DRILLING METHOD REVERSE FLUID WATER

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain, size, color, etc.*
0 28	BROWN SAND
28 34	BROWN CLAY & SAND
34 192	BROWN CLAY & SAND
190 202	CLAY
202 212	MEDIUM BROWN SANS & CLAY
212 222	BROWN CLAY
222 242	MEDIUM BROWN SAND & CLAY
242 252	BROWN CLAY
252 242	BROWN CLAY & SAND
242 485	MEDIUN BROWN SAND
485 576	BROWN SAND, ROCKS & CLAY
576 617	BROWN SAND
617 645	XTRA HARD SAND & ROCK

TOTAL DEPTH OF BORING 645 (Feet)

TOTAL DEPTH OF COMPLETED WELL 630 (Feet)

WELL OWNER

Name MEADOWBROOK DAIRY

Mailing Address 17900 SHEEP CREEK RD.

EL-MIRAGE CA 92301
CITY STATE ZIP

WELL LOCATION

Address 17900 SHEEP CREEK RD.

City EL-MIRAGE CA 92329

County SAN BERNARDINO

APN Book 457 Page 161 Parcel 10

Township 6 N Range 7 W Section 26

Latitude 34 34 44 N (DEG. MIN. SEC) 117 35 35 W (DEG. MIN. SEC)

LOCATION SKETCH

NORTH

EL-MIRAGE

1 1/2

1

BARLETT RD

S/10

WEST

EAST

SHEEP CREEK RD.

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR
— Deepen
— Other (Specify)

— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY
— Domestic — Public
✓ Irrigation — Industrial

— MONITORING
— TEST WELL
— CATHODIC PROTECTION
— HEAT EXCHANGE
— DIRECT PUSH
— INJECTION
— VAPOR EXTRACTION
— SPARGING
— REMEDIATION
— OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER ? (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL — (Ft.) & DATE MEASURED

ESTIMATED YIELD — (GPM) & TEST TYPE

TEST LENGTH — (Hrs.) TOTAL DRAWDOWN — (Ft.)

May not be representative of a well's long-term yield.

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0 40	42					STEEL	34	.375	
0 350	28	✓				STEEL	16	.375	
350 630	28		✓			STEEL	16	.375	.070 X 80

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0 53	✓			
53 645				

ATTACHMENTS (✓)

✓ Geologic Log
— Well Construction Diagram
— Geophysical Log(s)
— Soil/Water Chemical Analysis
— Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

NAME Farm Pump and Irrigation
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

P.O. Box 1477 Shafter CA 93263
ADDRESS CITY STATE ZIP

Signed [signature]
WELL DRILLER/AUTHORIZED REPRESENTATIVE

09/29/08
DATE SIGNED

802148 C-57
C-57 LICENSE NUMBER

DWR 188 REV 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 15C2332
4176 Warbler Rd	Sub Project: Title 22	Received: 03/31/15 17:00
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 04/16/15

NW Corner Well **15C2333-01 (Water)** **Sample Date:** 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	
Odor Threshold	EPA 140.1M	**1**	TON	1	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									
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**	mg/L	5.0		04/06/15	04/06/15	1514191	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		04/06/15	04/06/15	1514191	
Chloride (Cl)	EPA 300.0	**1.9**	mg/L	1.0	500	04/02/15	04/02/15	1514433	
Langelier Index at Source Tmp	SM 203	**-0.40**				03/31/15	03/31/15	1514191	
Langelier Index at 60 C	SM 203	**0.21**				03/31/15	03/31/15	1514191	
Aggressive Index	SM 203	**11.42**				03/31/15	03/31/15	1514191	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	04/03/15	04/03/15	1514462	
Specific Conductance (E.C.)	SM 2510B	**520**	umhos/cm	2.0	1600	04/06/15	04/06/15	1514191	
Fluoride (F)	EPA 300.0	**0.47**	mg/L	0.10	2	03/31/15	04/01/15	1514190	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/06/15	04/06/15	1514191	
MBAS (LAS Mole. Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.5	04/01/15	04/01/15	1514212	
Nitrate (NO3)	EPA 300.0	ND	mg/L	2.0	45	03/31/15	04/01/15	1514190	
Nitrate + Nitrite (as N)	EPA 300.0	ND	ug/L	400	10000	03/31/15	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 (ClO4)	EPA 314.0	ND	ug/L	4.0	6	04/01/15	04/01/15	1514333	
pH (Lab)	SM 4500HB	**7.9**	pH Units			03/31/15	03/31/15	1514191	
Sulfate (SO4)	EPA 300.0	**190**	mg/L	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	
Metals									
Aluminum (Al)	EPA 200.7	ND	ug/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**	ug/L	2.0	10	04/03/15	04/03/15	1514443	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	04/07/15	04/07/15	1515144	
Beryllium (Be)	EPA 200.7	ND	ug/L	1.0	4	04/06/15	04/06/15	1515064	
Boron (B)	EPA 200.7	ND	ug/L	100		04/07/15	04/07/15	1515144	
Cadmium (Cd)	EPA 200.7	ND	ug/L	1.0	5	04/06/15	04/06/15	1515064	
Calcium (Ca)	EPA 200.7	**23**	mg/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	ug/L	10	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	
Iron (Fe)	EPA 200.7	**160**	ug/L	100	300	04/07/15	04/07/15	1515144	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		04/06/15	04/07/15	1515083	

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Phelan Pinion Hills CSD	Project: Routine	Work Order: 15C2333
4176 Warbler Rd	Sub Project: Title 22	Received: 03/31/15 17:00
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 04/16/15

NW Corner Well 15C2333-01 (Water) **Sample Date:** 03/31/15 13:50 **Sampler:** Dan Wyatt

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
Magnesium (Mg)	EPA 200.7	2.6	mg/L	1.0		04/02/15	04/02/15	1514332	
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	
Nickel (Ni)	EPA 200.7	ND	ug/L	10	100	04/06/15	04/06/15	1515064	
Potassium (K)	EPA 200.7	2.8	mg/L	1.0		04/02/15	04/02/15	1514332	
Selenium (Se)	SM3113-B	ND	ug/L	5.0	50	04/01/15	04/01/15	1514210	
Silver (Ag)	EPA 200.7	ND	ug/L	10	100	04/06/15	04/06/15	1515064	
Sodium (Na)	EPA 200.7	81	mg/L	1.0		04/02/15	04/02/15	1514332	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	04/06/15	04/06/15	1515032	
Vanadium (V)	EPA 200.9	21	ug/L	3.0		04/06/15	04/06/15	1515031	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	04/07/15	04/07/15	1515144	
Anion / Cation Balance									
Hardness, Total (as CaCO3)	Calculated	68	mg/L			04/02/15	04/02/15	[CALC]	
Total Anions	Calculated	5.19	meq/L			04/02/15	04/06/15	[CALC]	
Total Cations	Calculated	4.96	meq/L			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	
Volatile Organic Analyses									
Vinyl Chloride (VC)	EPA 524.2	ND	ug/L	0.50	0.5	04/06/15	04/06/15	1515069	
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	
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	1	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/L	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	Project: Routine	Work Order: 15C2333
4176 Warbler Rd	Sub Project: Title 22	Received: 03/31/15 17:00
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 04/16/15

NW Corner Well **15C2333-01 (Water)** **Sample Date:** 03/31/15 13:50 **Sampler:** Dan Wyatt

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses									
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	ug/L	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-Dichlorobenzene (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: Bromofluorobenzene	*EPA 524.2*	*88 %*				*04/06/15*	*04/06/15*	*1515069*	
Surrogate: 1,2-Dichlorobenzene-d4	*EPA 524.2*	*85 %*				*04/06/15*	*04/06/15*	*1515069*	
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	ug/L	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/L	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/L	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/L	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 508.1	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	
Surrogate: Dibutylchlorendate	*EPA 508.1*	*105 %*				*04/02/15*	*04/07/15*	*1514428*	
Dalapon	EPA 515.4	ND	ug/L	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	ug/L	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/L	10	70	04/06/15	04/07/15	1515026	

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Phelan Pinion Hills CSD	Project: Routine	Work Order: 15C2333
4176 Warbler Rd	Sub Project: Title 22	Received: 03/31/15 17:00
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 04/16/15

NW Corner Well **15C2333-01 (Water)** **Sample Date:** 03/31/15 13:50 **Sampler:** 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	1	04/06/15	04/07/15	1515026	
Dinoseb (DNBP)	EPA 515.4	ND	ug/L	2.0	7	04/06/15	04/07/15	1515026	
Surrogate: 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	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	ug/L	3.0	4	04/03/15	04/04/15	1514440	
Di(2-ethylhexyl) adipate	EPA 525.2	ND	ug/L	5.0	400	04/03/15	04/04/15	1514440	
Molinate (ORDRAM)	EPA 525.2	ND	ug/L	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	
Surrogate: 1,3-dimethyl-2-nitrobenzene	*EPA 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
Surrogate: 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/L	45	100	04/06/15	04/08/15	1515023	

S-GC Surrogate recovery outside acceptance limits. Results are accepted based on valid recovery of the remaining surrogate(s).

GA-01 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

Bob Glaubig

Bob Glaubig

Laboratory Director

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: 321507191
Customer ID: 32CLIN51
Customer PO:
Project ID:

Attn: Bob Glaubig
Clinical Laboratory of San Bernardino
PO BOX 329
San Bernardino, CA 92402

Proj: 15C2333

Phone: (909) 825-7693
Fax:
Collected: 03/31/2015
Received: 04/01/2015
Analyzed: 04/10/2015

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

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

Analyst(s)
Sherrie Ahmad (1)

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

Any questions please contact Jerry Drapala.

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

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

OrderID: 321507191

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15C2333

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	

321507191

Please email results to Project Manager: Bob Glaubig
[✓] glaubig@clinical-lab.com [ ] glenney@clinical-lab.com [ ] styles@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [✓] No
Transfer File requested; log in with Element ID only [ ] Yes [✓] No
UCMR 3 CDX Transfer [ ] Yes [✓] No

Turn Around Time [✓] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis **Comments**

Sample ID: NW Corner Well / 15C2333-01 **Sampled: 03/31/15 13:50 PS Code:**
Water **WTX ID:**
UCMR ID:

Asbestos EPA 100.2
Containers Supplied:
1 Quart Plastic (J)

10.9°C JE 4-1-15

Released By	Date / Time	Received By	Date / Time
Bob Glaubig	04/01/15 07:45	Chris [signature]	4-1-15 / 10:00
Chris [signature]	4-1-15 / 11:37	JE (WI)	4-1-15 12:40pm

Certificate of Analysis

Report Date: 04/16/15 15:32
Received Date: 04/01/15 11:25
Turnaround Time: 7 workdays

Project: 15C2333

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 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 **Sample ID:** NW Corner Well / 15C2333-01 **Matrix:** Water
Sampled by: Client **Sampled:** 03/31/15 13:50

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	
Diquat	ND		4.0	ug/l	1	EPA 549.2	4/7/15	4/8/15 13:14	W5D0300	

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 Analyzed: 08/04/15 12:52

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat		ND		ug/l					

LCS (W5D0300-BS1) — Prepared: 04/07/15 Analyzed: 08/04/15 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) — Source: 5D01013-01 Prepared: 04/07/15 Analyzed: 08/04/15 13:48

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	14.3		ug/l	20.0	72	46-122		

Matrix Spike Dup (W5D0300-MSD1) — Source: 5D01013-01 Prepared: 04/07/15 Analyzed: 08/04/15 13:53

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%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 Analyzed: 04/15/15 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 Analyzed: 04/15/15 18:23

Analyte	Sample Result	QC Result	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 (W5D0063-BSD1) — Prepared: 04/02/15 Analyzed: 04/15/15 19:07

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

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 # 04229CA

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).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15C2333 5D01022

SENDING 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

RECEIVING LABORATORY:

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
[✓] glaubig@clinical-lab.com [ ] glenney@clinical-lab.com [ ] styles@clinical-lab.com

California EDT transfer those samples with PS codes provided	[ ] Yes	[✓] No
Transfer File requested; log in with Element ID only	[ ] Yes	[✓] No
UCMR 3 CDX Transfer	[ ] Yes	[✓] No

Turn Around Time [✓] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis **Comments**

Sample ID: NW Corner Well / 15C2333-01 **Sampled: 03/31/15 13:50 PS Code:**
Water **WTX ID:**
UCMR ID:

549 Diquat
1613 Dioxins
Containers Supplied:
1 L Plastic (V) 1 L Amber Glass (W) 1 L Amber Glass (X)

3.9

Bob Glaubig	04/01/15 07:45	Chris [signature]	4-1-15 / 10:00
Released By	Date / Time	Received By	Date / Time
Chris [signature]	4-1-15 / 1125	[signature]	4/1/15 1125
Released By	Date / Time	Received By	Date / Time

ISC 2333

Clinical Lab of San Bernardino, Inc. — Chain of Custody

of Containers ___ / ___ / 19 Bacti / GP / Other

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	Phelan Pinon Hills CSD
Address:	4176 Warbler Rd. Phelan Ca 92371
Client Contact:	Ernesto ARAIZA
Phone No:	(760) 868-1212 FAX No: (760) 868-2323
System No.:	3610120
Project:	Title 22
Sampled By:	Daniel Wyatt
Comments:	ID# 06N7W26K03 Daniel Wells

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Gen Min / Corrosivity / Cr+6	Inorganic Chemical / Gen Phy	Gross Alpha / Asbestos	Volatile Organic / EDB, DBCP	Chlor. Pesticide / Herbicide	DEHP/DEHA/PAH/Triazine	Carbamate Pesticide	Glyphosate / Endothall	Diquat	Dioxin	Comments	Turn Around Time (TAT)
3/31/15	1500 PM	NW Corner Well	7			5	7		2		3		1		1	19	X	X	X	X	X	X	X	X	X	X		
																	1 - 1/2 gallon plastic	1 - pint plastic / 1 - gen phys glass	1 - 1/2 gallon plastic / 1 - quart plastic	2 - EPA 524 vials / 2 - EPA 504 vials	1 - EPA 508 amber / 1 - EPA 515 amber	2 - EPA 525 ambers	1 - EPA 531 amber	1 - EPA 547 amber / 1 - EPA 548 amber	1 - EPA 549 amber	2 - EPA 1613 ambers		

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Daniel Wyatt / PPHCSD	3/31/15 3154		
	Gary Lewis	3-31-15 / 12:00		

(Lab Use Only) ~~Lompoc~~ Lab Receipt Temp.: .4 °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 23.1 °C

Page __ of __

Clinical Laboratory of San Bernardino, Inc.

Phelan Pinion Hills CSD	Project: Routine	Work Order: 13A1324
4176 Warbler Rd	Sub Project: Dairy Wells	Received: 01/16/13 17:25
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 01/30/13

Northwest Corner Well (NIS) **13A1324-03 (Water)** **Sample Date:** 01/16/13 9:50 **Sampler:** Brian Gerke

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	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	1303381	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13	1303381	
Chloride (Cl)	EPA 300.0	**2.8**	mg/L	1.0	500	01/21/13	01/21/13	1304022	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	01/21/13	01/21/13	1304006	
Specific Conductance (E.C.)	SM 2510B	**520**	umhos/cm	2.0	1600	01/18/13	01/18/13	1303381	
Fluoride (F)	EPA 300.0	**0.46**	mg/L	0.10	2	01/17/13	01/17/13	1303344	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/18/13	01/18/13	1303381	
MBAS (LAS Molc. Wt 340.0)	SM 5540C	ND	mg/L	0.10	0.5	01/17/13	01/17/13	1303185	
Nitrate (NO3)	EPA 300.0	ND	mg/L	2.0	45	01/17/13	01/17/13	1303344	
Nitrate + Nitrite (as N)	EPA 300.0	ND	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	**8.2**	pH Units			01/17/13	01/17/13	1303381	
Sulfate (SO4)	EPA 300.0	**180**	mg/L	0.50	500	01/17/13	01/17/13	1303344	
Total Filterable Residue/TDS	SM 2540C	**330**	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	**3.1**	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	ND	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	**23**	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	**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	

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

Phelan Pinion Hills CSD	Project: Routine	Work Order: 13A1324
4176 Warbler Rd	Sub Project: Dairy Wells	Received: 01/16/13 17:25
Phelan CA, 92371	Project Manager: Ernesto Araiza	Reported: 01/30/13

Northwest Corner Well (NIS) **13A1324-03 (Water)** **Sample Date:** 01/16/13 9:50 **Sampler:** Brian Gerke

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
Metals									
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	meq/L			01/22/13	01/21/13	[CALC]	
Total Cations	Calculated	4.94	meq/L			01/22/13	01/22/13	[CALC]	
% difference	Calculated	1.1				01/22/13	01/21/13	[CALC]	

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

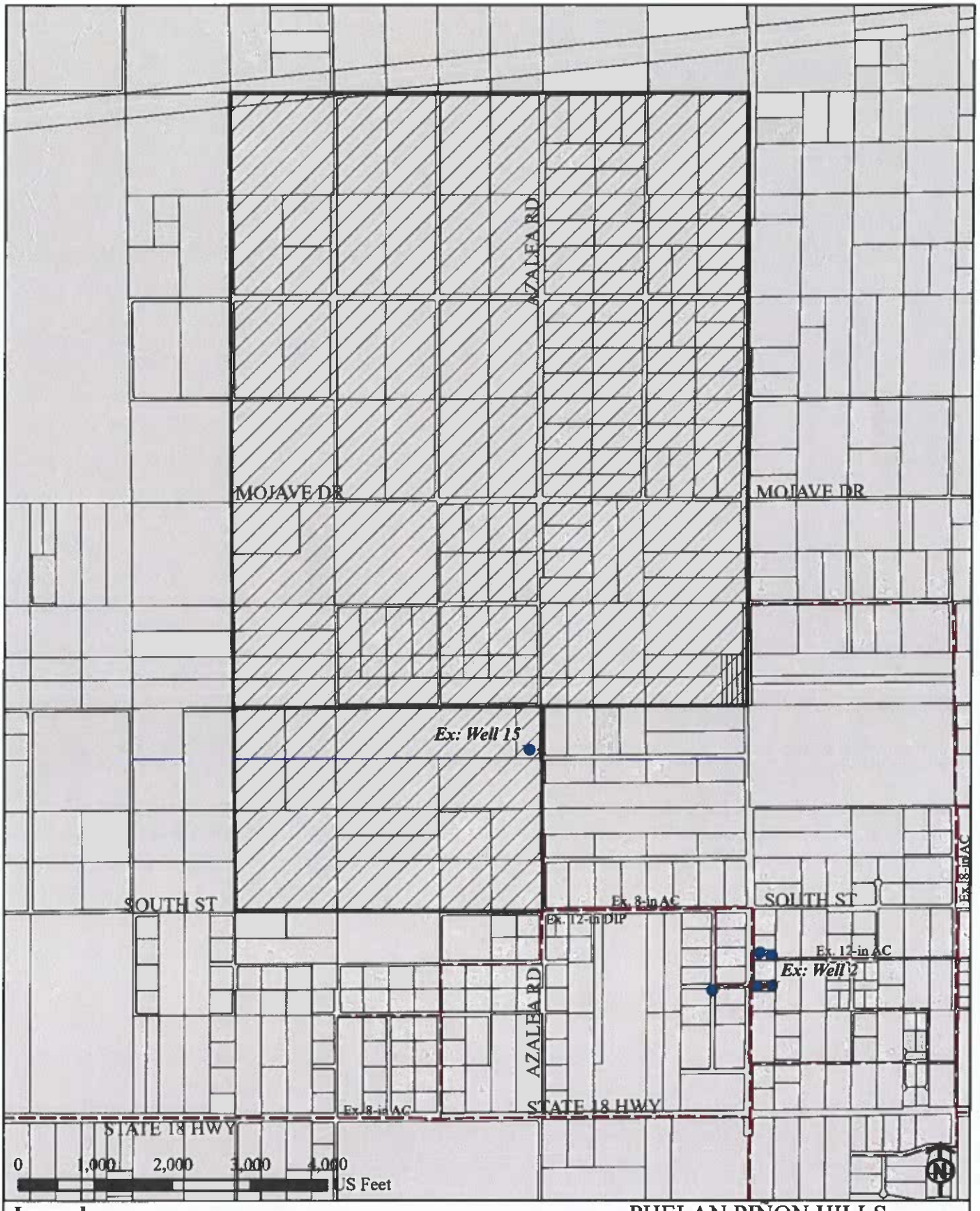
Option 2
The District installed 5,500 feet of 12" DI350 Ductile Iron transmission line to service the production capacity from the recently drilled Well 15. Using known water quality and production capabilities, the area South by Southwest of Well 15 is a good candidate to drill Well 18, utilizing the 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


AZALEA RD
MOJAVE DR
MOJAVE DR
Ex: Well 15
SOUTH ST
SOUTH ST
Ex. 8-in AC
Ex. 12-in DIP
Ex. 8-in AC
Ex. 12-in AC
Ex: Well 2
AZALEA RD
Ex. 8-in AC
STATE 18 HWY
STATE 18 HWY
0
1,000
2,000
3,000
4,000
US Feet
N
Legend
Existing Well
Existing Pipeline
Area of Interest
PHELAN PINON HILLS
COMMUNITY SERVICES DISTRICT
WELL 18 - AREA OF INTEREST

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.

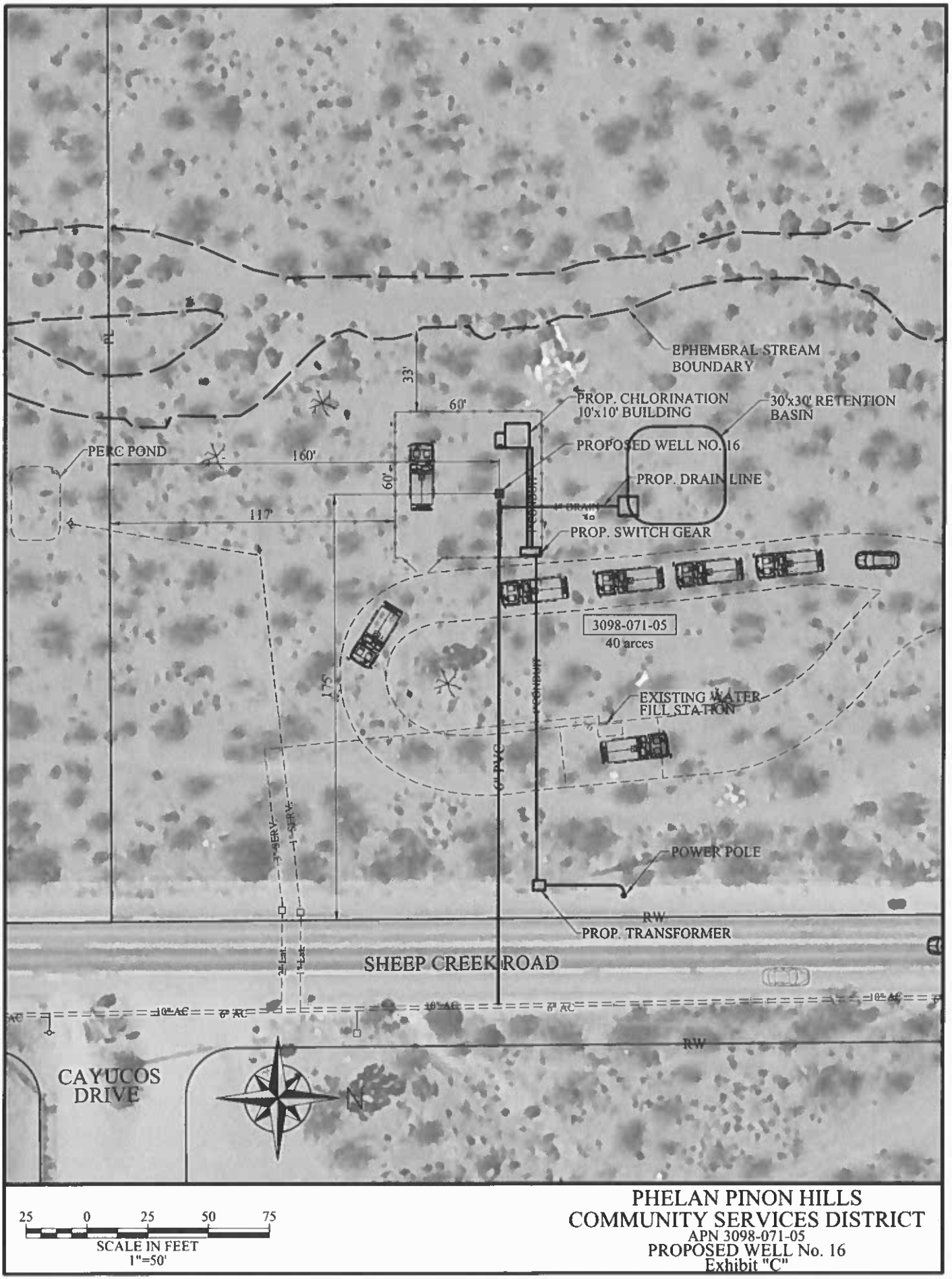
Analyzing the available geotechnical data, and knowing production capabilities in the area by Well 8, this area is the least desirable in terms of water production. Staff estimates this area will yield between 300-500 gallons per minute.

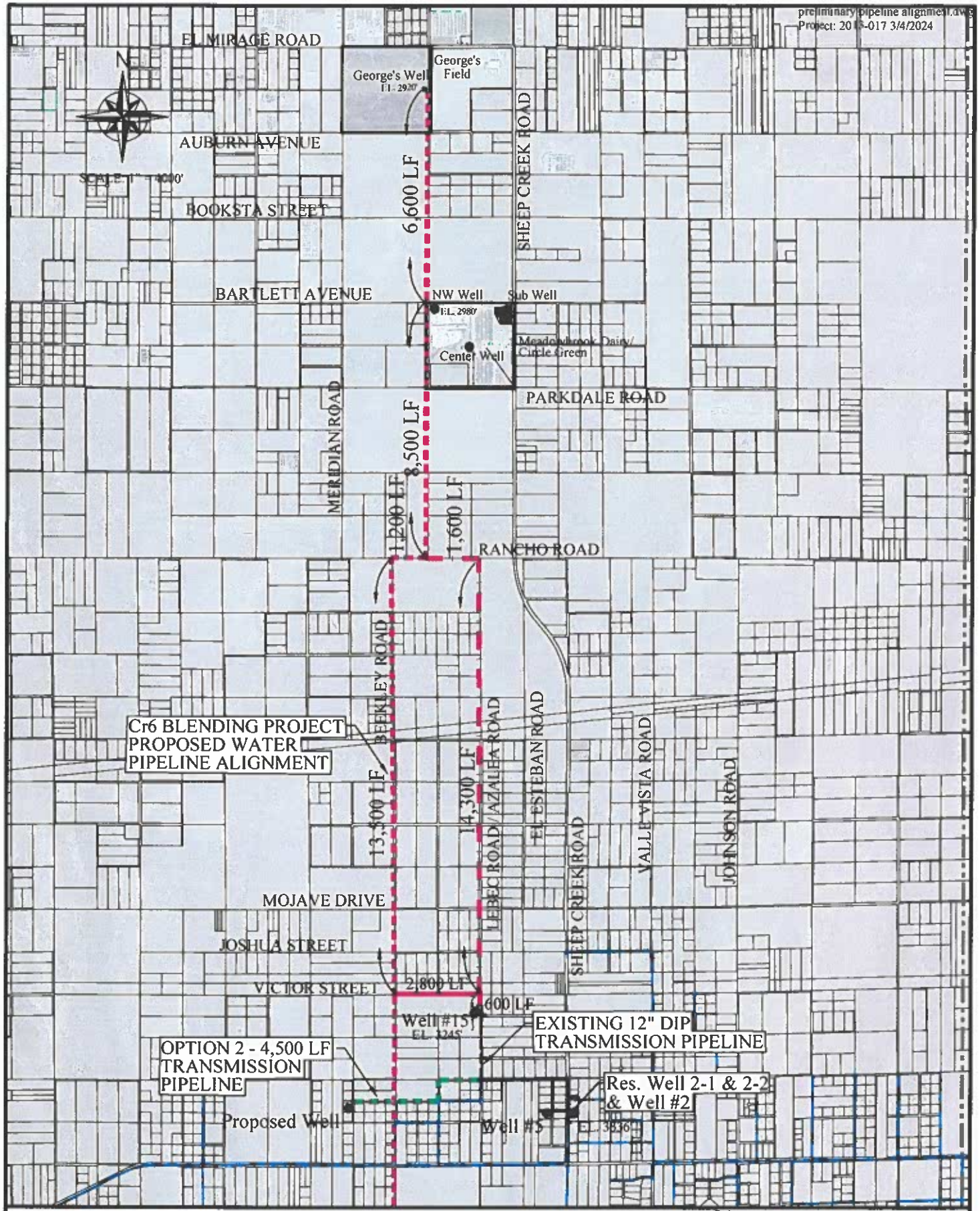
Well 15 will serve as the template for depth, construction, and materials. Using this analog, the cost to drill the pilot hole, ream, and case is $1,100,000. An additional $480,000 is required to equip the well with a pump, motor, and variable frequency drive. SCADA to provide telemetry is $50,000.

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


EPHEMERAL STREAM BOUNDARY
PROP. CHLORINATION 10'x10' BUILDING
30'x30' RETENTION BASIN
PROPOSED WELL NO. 16
PROP. DRAIN LINE
PROP. SWITCH GEAR
PERC POND
160'
117'
60'
33'
60'
3098-071-05
40 arces
EXISTING WATER FILL STATION
175'
POWER POLE
RW
PROP. TRANSFORMER
SHEEP CREEK ROAD
RW
CAYUCOS DRIVE
N
25 0 25 50 75
SCALE IN FEET
1"=50'
PHELAN PINON HILLS
COMMUNITY SERVICES DISTRICT
APN 3098-071-05
PROPOSED WELL No. 16
Exhibit "C"


preliminary pipeline alignment.dwg
Project: 2015-017 3/4/2024
EL MIRAGE ROAD
George's Well
El. 2920'
George's Field
AUBURN AVENUE
SCALE: 1" = 4000'
BOOKSTA STREET
6,600 LF
SHEEP CREEK ROAD
BARTLETT AVENUE
NW Well
El. 2980'
Sub Well
Meadowbrook Dairy/
Circle Green
Center Well
PARKDALE ROAD
MERIDIAN ROAD
8,500 LF
1,200 LF
1,600 LF
RANCHO ROAD
BEEKLEY ROAD
Cr6 BLENDING PROJECT
PROPOSED WATER
PIPELINE ALIGNMENT
13,500 LF
14,300 LF
LEBEC ROAD/AZALEA ROAD
EL ESTEBAN ROAD
SHEEP CREEK ROAD
VALLE VISTA ROAD
JOHNSON ROAD
MOJAVE DRIVE
JOSHUA STREET
VICTOR STREET
2,800 LF
600 LF
Well #15
EL. 3245'
EXISTING 12" DIP
TRANSMISSION PIPELINE
OPTION 2 - 4,500 LF
TRANSMISSION
PIPELINE
Res. Well 2-1 & 2-2
& Well #2
Proposed Well
Well #3
EL. 3836'
PROPOSED Cr6 PIPELINE ALIGNMENT
PROPOSED 12" DIP PIPELINE ALIGNMENT
ALTERNATE PIPELINE ALIGNMENT
OPTION 2 - 4,500 LF TRANSMISSION PIPELINE
EXISTING WATER PIPELINES
PROPOSED PROJECT = 33,200± LF
PHELAN PIÑON HILLS
COMMUNITY SERVICES DISTRICT
Proposed George's Well Pipeline Project
Preliminary Alignment
EXHIBIT "A"

Phelan Piñon Hills CSD
Established 2008

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

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