

Appendix A: Firebaugh Canal Water District Transfer Policy

FIREBAUGH CANAL WATER DISTRICT
WATER TRANSFER POLICY

Firebaugh Canal Water District has the right to appropriate water from the San Joaquin River. Under the terms of the Exchange Contract with the Bureau of Reclamation, the District receives substitute water generally delivered through the Delta-Mendota Canal to Mendota Pool. The District will permit the transfer of substitute water pursuant to this policy.

1. Eligible Transferors. Only District landowners may transfer their water allocation. The District will only permit transfer of water from a landowner within the District to his or her land in a recipient District.
2. District Approval. The District strives to manage water transfers so that the water supply, operations, and financial condition of the District and the Exchange Contractors, and water users within the Exchange Contract service area are not unreasonably impacted. In order to obtain District approval of a water transfer proposal, the transferor must demonstrate that the transfer does not unreasonably impact:
 - a. The quantity and quality of the water supply available to the District and its water users;
 - b. The ability of the District to blend irrigation return flow and drainage water in its canals to meet water quality standards imposed by the Regional Water Quality Control Board;
 - c. The Districts operations including, but not limited to the ability of the District to meet its delivery obligations, obtain additional water supplies, and undertake conservation measures, exchanges, and transfers;
 - d. The Districts financial condition and its cost of providing water service to its water users;
 - e. The ability of the District or its water users to provide drainage to lands, including the ability to meet regulatory requirements relating to the discharge of agricultural drainage; and
 - f. Other relevant factors that may create an adverse financial, operations, or water supply impact on the District or its water users.
 - g. The ability of neighboring lands to continue to farm and cultivate crops without the fallowed land creating noxious weeds, dust, insect or disease conditions which may impact those neighboring lands.
3. Water Transfer Proposal. All transfers which an individual landowner wishes to make must be presented to the District for processing.

In any water year, the total water to be transferred shall not exceed that quantity of water that the District determines can be safely transferred without adversely impacting the quantity and quality of the water supply available to the District and its water users. The District will also determine the quantity of water for the water year that the District needs in order to provide for blending of irrigation return flow and drainage water in its canal

systems to meet regulatory requirements. The total water allowed to be transferred shall be computed first after considering these factors and, then, after subtracting the quantity of water needed to offset transportation, evaporation, seepage, metering or measurement error, and any amounts necessary to satisfy agreements with the other Exchange Contractors.

4. Consumptive Use Limitation. Only water that would have been consumptively used or irretrievably lost to beneficial use during the term of the transfer may be transferred, and the transfer quantity may not exceed the transferors' allocation of water. The District reserves the right to limit transfers during specific months to the quantity of water that would have been consumptively used or irretrievably lost to beneficial use by the transferor during those months.
5. Correlative Share Limitation. The amount of District water that can be transferred without unreasonable impacts on the District and its water users is limited. The District considers the rights of individual landowners to transfer their water supplies to be limited to a correlative share of the total transferable supply. The District will not approve any transfer proposal that would prevent other landowners from transferring their correlative share of the transferable supply of District water.
6. Groundwater Limitations:
 - a. General Limitation. The District will not approve any water transfer involving a substitution of groundwater that the District believes (i) is likely to result in significant long-term adverse impacts on groundwater conditions within the District's service area, (ii) unreasonably interferes with pumping rates or capacities of wells within the Districts service area, or, (iii) interferes with the Districts ability to meet water quality objectives imposed by the Central Valley Regional Water Quality Control Board or other agency having jurisdiction and regulatory authority of the quality of waters used within or discharged from the Districts service area. This limitation shall also apply to water transfer proposals whereby groundwater extracted from lands within the District service area is wheeled in District facilities for use within the Districts service area.
 - b. Critical Year Limitation. The District has determined that groundwater pumping within its boundaries during critical water years as defined by the Exchange Contract results in significant long-term adverse impacts on groundwater conditions within the Districts service area that in turn causes unreasonable impacts on the water supply of the District and its water users; therefore, the District will not approve any water transfer proposal that involves pumping of groundwater in critical water years unless the impacts to water quality can be shown not to effect overall water quality.
7. Transfer Limitations. A transfer will not be approved if the District determines that the water transfer is likely to increase drainage requirements or otherwise cause a deleterious effect on District lands downslope of the lands irrigated as a result of the transfer. The transfer will not be approved unless the Transferor's plan for the lands from which the water will be removed includes a full, detailed and feasible plan to maintain any fallowed lands in a condition in which the lands will not create a risk of insect infestation, disease, dust, noxious weeds or other detrimental condition that may affect neighboring lands and assurances that the plan will be implemented.

8. Compliance with Law and Regulations. Transfer proposals must comply with all provisions of law including but not limited to the provisions of the California Environmental Quality Act (CEQA).
9. Submission of Proposals:
 - a. Preliminary Proposals. A transferor may submit a preliminary water transfer proposal to the District prior to the submission of a formal water transfer proposal. The purpose of a preliminary water transfer proposal is to provide the opportunity for informal review by District staff in order to advise the transferor of possible requirements, conditions or objections if a formal proposal is made. The response of the District to a preliminary proposal shall be deemed tentative and subject to change if a formal transfer proposal is made.
 - b. Formal Proposals. No later than the date the formal water transfer proposal is submitted to the USBR, the transferor shall submit two (2) complete copies to the District. A proposal shall be deemed complete for purposes of District review only when it has been deemed complete by the USBR and contains sufficient information for the District to determine the impact of the proposed transfer on operations of the District, and that it has been analyzed for compliance with CEQA. The transferor must supply any additional information requested by the District in order to enable the District to effectively review the proposal.
10. Hearings. The District may conduct one or more public hearings in order to determine whether the proposed transfer is likely to have an impact on the water supply, operations and financial condition of the District and its water users, and to ensure compliance with CEQA. The transferor and the transferee, or their representative, shall attend any such hearing if requested to do so by the District in order to respond to questions and comments regarding the impact of the proposed water transfer.
11. Future Modifications. District-approved transfers shall be subject to modification from time to time in order to respond to:
 - a. Changes in applicable laws, regulations, contracts and court decisions;
 - b. Changed circumstances that cause a transfer to result in unreasonable impacts on the water supply, operations or financial condition of the District or its water users;
 - c. Proposals by the water users within the District to transfer their correlative share of the District's transferable water supply.
12. Costs.
 - a. The transferor must demonstrate that the transferor has paid or has made acceptable arrangements to pay all costs associated with developing a complete water transfer proposal, including the costs associated with necessary environmental review and District staff and attorney review necessary to process the transfer proposal.

- b. The transferor shall be responsible to pay all costs incurred by the District in processing the water transfer proposal and administering the water transfer itself. Such costs shall be charged to the transferor on a time-and-materials/acre-foot basis in accordance with generally accepted accounting practices. A deposit, in an amount to be fixed by the Board of Directors, shall accompany the proposal. If it appears to the District that the deposit will be inadequate to cover the Districts costs, the District may issue a written cost estimate, or estimates, to the transferor. The transferor shall deposit with the District the funds necessary to meet such supplemental cost estimates. The District shall charge its costs against the transferors' deposits and shall render an accounting to the transferor upon request, but not more often than monthly. Any unexpended portion of the transferors' deposits shall be refunded upon completion of the transfer. If the transferor fails to deposit sufficient funds to cover the Districts costs, the deficiency shall be due upon submission of an invoice from the District to the transferor. If the transferor fails to pay the invoice, the amount due may, at the Districts election, be added to the transferors property taxes or secured by recordation of a lien certificate pursuant to Water Code ' 37212.
13. Charges. Before any water is transferred in a given water year, the transferor shall pay to the District in full:
 - a. All additional water rates and charges due to the Bureau of Reclamation or other agency that the District is obligated to collect on account of the approved water transfer.
 - b. The Districts water charges for that years water supply to the land from which the water is being transferred
 - c. Any standby charges or assessments attributable to the subject land for the year of the transfer, and any delinquencies on account of past water charges, standby charges or assessments.
14. Indemnification. The transferor and transferee are required to defend, indemnify, and hold harmless the District against any claims of third parties that the transfer:
 - a. Violates the terms of the Second Amended Contract for Exchange of Waters, Contract No. Ilr-1144, dated February 14, 1968;
 - b. Is not a beneficial or reasonable use of water;
 - c. Violates any law or regulation including, but not limited to the National Environmental Policy Act (NEPA), CEQA, State and Federal Endangered Species acts, water quality statutes, and Area of Origin laws; or
 - d. Has caused or will cause injury or damage to any person or property, including violations of any contracts, leases, trust deeds or water rights.

The transferor and transferee are also required to defend, indemnify and hold harmless the District from any claims that the transferor or transferees have breached any contractual or

statutory duties pertaining to the transfer.

In addition, the transferor shall relinquish for the duration of the approved transfer all entitlement to receive the water supply that is the subject of the approved transfer. The transferor and transferee shall abide by the termination date of the transfer unless extended in the manner provided by law and shall not contest the return of the transferred water supply to the Districts service area upon such termination.

The transferor shall provide the necessary assurances to the District that the transferee has agreed to abide by the termination date as set forth above and that the transferee has agreed to waive any claim of dependency, detrimental reliance, or intervening public use as a basis for extending the water transfer beyond its approved term.

Prior to approval of the proposed transfer, the transferor shall deliver to the District an agreement, in a form acceptable to the District, signed by the transferor and the transferee, by which they agree to conform to this policy, and in particular to the requirements of this Section.

The agreement shall provide among other terms for the compliance with the plan for maintenance of the land and facilities upon the land from which the water is transferred in such a condition that the land will not create a risk of detrimental impacts to surrounding lands. The District shall be granted the right to perform those measures at the cost of the transferor if the measures are not fully and timely complied with.

15. Water Transfers. Water Transfers for use of water outside of the District boundaries may only be accomplished with the written agreement and compliance with the agreement terms established by the Board of Directors and only in compliance with Federal and State law. Transfers to lands outside of the District boundaries are not a matter of right. If any terms of a written agreement specifying the means and conditions of a transfer shall be violated or fail to be performed, the landowner shall be subject to the penalties provided under the terms of the agreement but shall further be barred from receiving water upon any lands within the boundaries of the District until such time as the District Board of Directors shall determine that the transfer agreement terms have been fully complied with. A breach of the terms of a water transfer agreement which cannot be remedied by physical performance may result in a suspension of the right to receive water for up to one calendar year after a hearing is conducted by the Board of Directors, in addition to the remedies, fines or penalties established under the written agreement and under these rules and regulations.

The foregoing policy was adopted by the Firebaugh Canal Water District at a regular meeting of its Board of Directors on March 11, 1993 and revised in the same manner on October 16, 2001, July 20, 2004 and May 15, 2012.

Appendix B: San Luis Water District Letter

Attachment C.

6715 NORTH PALM AVENUE
SUITE 116
FRESNO, CALIFORNIA 93704

GARY W. SAWYERS
SCOTT D. GREENWOOD-MEINERT

LAW OFFICES OF
GARY W. SAWYERS

TELEPHONE (559) 438-5656
FACSIMILE (559) 438-1781
GSAWYERS@SAWYERSLAW.COM
SGREENWOOD-MEINERT@SAWYERSLAW.COM

May 3, 2006

VIA FACSIMILE ONLY
(559) 487-5397

Ms. Kathy Wood
Chief, Resource Management Division
Bureau of Reclamation
South-Central California Area Office
1243 "N" Street
Fresno, CA 93721

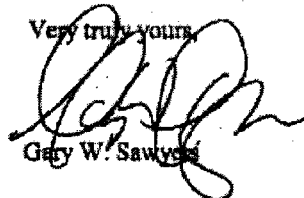
Re: San Luis Water District
Our File No. 52120.001

Dear Kathy:

In connection with the pending Agreement for the Acquisition of Water by the United States, San Luis & Delta-Mendota Water Authority, and Madera Irrigation District from the San Joaquin River Exchange Contractor Water Authority, I understand that Reclamation requires certain confirmations from the San Luis Water District. As you know, I am general counsel to the District. On behalf of the District, I hereby confirm that the District will not deliver Central Valley Project water to development or converted habitat without confirmation from the Bureau of Reclamation or other evidence that compliance with the Endangered Species Act has occurred with respect to the subject land either through Section 7 or Section 10 of the Act.

If you have any questions or need further confirmation, please contact me.

Very truly yours,



Gary W. Sawyers

GWS:lj
cc: Mr. Martin McIntyre (via facsimile only)
Mr. Daniel Nelson (via facsimile only)

Appendix C: Reclamation's Cultural Resource Determination

CULTURAL RESOURCE COMPLIANCE
Reclamation Division of Environmental Affairs
MP-153

MP-153 Tracking Number: 18-SCAO-162

Project Name: Firebaugh Canal Water District (Firebaugh) 5-Year Transfer Program

NEPA Document: EA-18-025

NEPA Contact: Kate Connor, Natural Resources Specialist

MP-153 Cultural Resources Reviewer: Joanne Goodsell, Archaeologist

Date: August 28, 2018

Reclamation proposes to approve a series of annual transfers over a five year period (calendar year 2019 through 2023) of up to 7,500 AFY of the Firebaugh's Central Valley Project (CVP) contract supplies to Pacheco Water District, San Luis Water District, and Westlands Water District (Transfer Recipient Districts). In order to make its CVP supplies available for the transfers, Firebaugh would pump up to 17 cubic feet per second of groundwater from four existing wells to meet in-district demands, in lieu of taking surface water deliveries dedicated to Firebaugh under the Exchange Contract. The pumped groundwater would be delivered to the Transfer Recipient Districts through existing facilities, involving no ground disturbance or new construction.

Reclamation determined the proposed action is the type of Federal undertaking that has no potential to cause effects on historic properties, assuming such properties be present, pursuant to 36 CFR § 800.3(a)(1). As such, Reclamation has no further obligations under 54 U.S.C. § 306108, commonly known as Section 106 of the National Historic Preservation Act. The proposed action will result in no impacts to cultural resources.

This document conveys the completion of the cultural resources review and Section 106 process for this undertaking. Please retain a copy of this document with the administrative record for the proposed action. Should the proposed action change, additional review under Section 106, possibly including consultation with the State Historic Preservation Officer, may be required.

Appendix D: Water Quality Testing for Well #5

Well Number 5: #5 in EA

Owned by the City of Mendota

Utilized through Exchange Agreement with B & B Limited

P.O. Box 6

Firebaugh, CA 93622

Hall Well: #2 In EA

Owned and Operated by Almendra Farming LLC

44474 West Nees Avenue

Firebaugh, CA 93622

City Well: #3 in EA

Owned by the City of Mendota

Leased to the Firebaugh Canal Water District

P.O. Box 97

Mendota, CA 93640



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

NELAP Certification number: CA00046 (HW)
State Certification Number: CA1312 (WW & DW)

July 12, 2018

Firebaugh Canal Water District
P.O. Box 97
Mendota, California 93640

Attn: Jeff Bryant

Subject: Report of Data: Case 86203

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Mr. Bryant,

Three water samples were received on June 29, 2018, in good condition. Written results are being provided on this July 12, 2018, for the requested analyses.

For the EPA 200.7 and 200.8 analyses, the samples were digested according to EPA method 200.7/11.2. Sodium adsorption ratio was calculated.

For the EPA 300.0, SM 2320B, SM 2510B, SM 2540C, and SM 4500H+B analyses, the samples were prepared according to the methods. Nitrate is reported as NO₃ in mg/L (ppm). The samples were analyzed as soon as possible for pH. All other holding times were met. In the method blanks, electrical conductivity, bicarbonate and total alkalinity were detected above the reporting limit; electrical conductivity, bicarbonate and total alkalinity in the samples exceeds the blank concentration by ten-fold or more.

No other unusual problem or complication was encountered with this sample set.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Paula McCartney, Laboratory Director
APPL, Inc.

PM/rp
Enclosure
cc: File

Number of pages in this report ____

Results

Firebaugh Canal Water District
P.O. Box 97
Mendota, CA 93640

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Jeff Bryant

Sample ID: CITY WELL

Sample Collection Date: 06/28/18

APPL ID: AZ75924

ARF: 86203

| Analyte | Method | Result | PQL | Dilution | Units | Prep Date | Analysis Date |
|---------------------------|------------|------------|-------|----------|----------------|-----------|---------------|
| BICARBONATE AS CaCO3 | SM 2320B | 201 | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| BORON (B) | 200.7/11.2 | 2.0 | 0.025 | 1 | mg/L | 07/03/18 | 07/09/18 |
| CALCIUM (CA) | 200.7/11.2 | 124 | 0.05 | 1 | mg/L | 07/03/18 | 07/09/18 |
| CARBONATE AS CaCO3 | SM 2320B | ND | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| CHLORIDE | EPA 300.0 | 446 | 50.0 | 50 | mg/L | 07/02/18 | 07/02/18 |
| HYDROXIDE AS CaCO3 | SM 2320B | ND | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| MAGNESIUM (MG) | 200.7/11.2 | 24.6 | 0.025 | 1 | mg/L | 07/03/18 | 07/09/18 |
| NITRATE | EPA 300.0 | ND | 2.5 | 5 | mg/L | 06/30/18 | 06/30/18 |
| PH | SM4500HB | 7.59@15.1C | 1.0 | 1 | pH Units | 07/02/18 | 07/02/18 |
| POTASSIUM (K) | 200.7/11.2 | 7.7 | 0.5 | 1 | mg/L | 07/03/18 | 07/09/18 |
| SELENIUM (SE) | 200.8 | ND | 0.001 | 1 | mg/L | 07/03/18 | 07/05/18 |
| SODIUM (NA) | 200.7/11.2 | 675 | 0.5 | 1 | mg/L | 07/03/18 | 07/09/18 |
| SODIUM ADSORPTION RATIO | calc | 14.5 | | 1 | na | 07/03/18 | 07/09/18 |
| SPECIFIC CONDUCTANCE | SM 2510B | 3470 | 3.0 | 1 | umhos/cm @ 25C | 07/03/18 | 07/03/18 |
| SULFATE | EPA 300.0 | 912 | 50.0 | 50 | mg/L | 07/02/18 | 07/02/18 |
| TOTAL ALKALINITY AS CaCO3 | SM 2320B | 201 | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| TOTAL DISSOLVED SOLIDS | SM2540C | 2330 | 20 | 2 | mg/L | 07/03/18 | 07/03/18 |

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Multi-Analysis Report

Results

Firebaugh Canal Water District
P.O. Box 97
Mendota, CA 93640

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Jeff Bryant

Sample ID: HALL WELL #1

Sample Collection Date: 06/28/18

APPL ID: AZ75925

ARF: 86203

| Analyte | Method | Result | PQL | Dilution | Units | Prep Date | Analysis Date |
|---------------------------|------------|------------|-------|----------|----------------|-----------|---------------|
| BICARBONATE AS CaCO3 | SM 2320B | 172 | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| BORON (B) | 200.7/11.2 | 1.1 | 0.025 | 1 | mg/L | 07/03/18 | 07/09/18 |
| CALCIUM (CA) | 200.7/11.2 | 32.7 | 0.05 | 1 | mg/L | 07/03/18 | 07/09/18 |
| CARBONATE AS CaCO3 | SM 2320B | ND | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| CHLORIDE | EPA 300.0 | 434 | 20.0 | 20 | mg/L | 07/02/18 | 07/02/18 |
| HYDROXIDE AS CaCO3 | SM 2320B | ND | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| MAGNESIUM (MG) | 200.7/11.2 | 5.1 | 0.025 | 1 | mg/L | 07/03/18 | 07/09/18 |
| NITRATE | EPA 300.0 | ND | 1.0 | 2 | mg/L | 06/30/18 | 06/30/18 |
| PH | SM4500HB | 7.75@15.1C | 1.0 | 1 | pH Units | 07/02/18 | 07/02/18 |
| POTASSIUM (K) | 200.7/11.2 | 6.1 | 0.5 | 1 | mg/L | 07/03/18 | 07/09/18 |
| SELENIUM (SE) | 200.8 | ND | 0.001 | 1 | mg/L | 07/03/18 | 07/05/18 |
| SODIUM (NA) | 200.7/11.2 | 464 | 0.5 | 1 | mg/L | 07/03/18 | 07/09/18 |
| SODIUM ADSORPTION RATIO | calc | 19.9 | | 1 | na | 07/03/18 | 07/09/18 |
| SPECIFIC CONDUCTANCE | SM 2510B | 2230 | 3.0 | 1 | umhos/cm @ 25C | 07/03/18 | 07/03/18 |
| SULFATE | EPA 300.0 | 281 | 20.0 | 20 | mg/L | 07/02/18 | 07/02/18 |
| TOTAL ALKALINITY AS CaCO3 | SM 2320B | 172 | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| TOTAL DISSOLVED SOLIDS | SM2540C | 1350 | 20 | 2 | mg/L | 07/03/18 | 07/03/18 |

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Multi-Analysis Report

Results

Firebaugh Canal Water District
P.O. Box 97
Mendota, CA 93640

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Jeff Bryant

Sample ID: WELL #5

Sample Collection Date: 06/28/18

APPL ID: AZ75926

ARF: 86203

| Analyte | Method | Result | PQL | Dilution | Units | Prep Date | Analysis Date |
|---------------------------|------------|--------------|-------|----------|----------------|-----------|---------------|
| BICARBONATE AS CaCO3 | SM 2320B | 144 | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| BORON (B) | 200.7/11.2 | 0.65 | 0.025 | 1 | mg/L | 07/03/18 | 07/09/18 |
| CALCIUM (CA) | 200.7/11.2 | 42.1 | 0.05 | 1 | mg/L | 07/03/18 | 07/09/18 |
| CARBONATE AS CaCO3 | SM 2320B | ND | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| CHLORIDE | EPA 300.0 | ND | 10.0 | 10 | mg/L | 07/02/18 | 07/02/18 |
| HYDROXIDE AS CaCO3 | SM 2320B | ND | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| MAGNESIUM (MG) | 200.7/11.2 | 12.0 | 0.025 | 1 | mg/L | 07/03/18 | 07/09/18 |
| NITRATE | EPA 300.0 | ND | 0.5 | 1 | mg/L | 06/30/18 | 06/30/18 |
| PH | SM4500HB | 7.35 @ 15.2C | 1.0 | 1 | pH Units | 07/02/18 | 07/02/18 |
| POTASSIUM (K) | 200.7/11.2 | 4.0 | 0.5 | 1 | mg/L | 07/03/18 | 07/09/18 |
| SELENIUM (SE) | 200.8 | ND | 0.001 | 1 | mg/L | 07/03/18 | 07/05/18 |
| SODIUM (NA) | 200.7/11.2 | 243 | 0.5 | 1 | mg/L | 07/03/18 | 07/09/18 |
| SODIUM ADSORPTION RATIO | calc | 8.5 | | 1 | na | 07/03/18 | 07/09/18 |
| SPECIFIC CONDUCTANCE | SM 2510B | 1340 | 3.0 | 1 | umhos/cm @ 25C | 07/03/18 | 07/03/18 |
| SULFATE | EPA 300.0 | 275 | 10.0 | 10 | mg/L | 07/02/18 | 07/02/18 |
| TOTAL ALKALINITY AS CaCO3 | SM 2320B | 144 | 2.0 | 1 | mg/L | 07/02/18 | 07/02/18 |
| TOTAL DISSOLVED SOLIDS | SM2540C | 848 | 10 | 1 | mg/L | 07/03/18 | 07/03/18 |

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Multi-Analysis Report

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

| Method | Analyte | Result | PQL | Units | Prep Date | Analysis Date | QC Group |
|------------|----------------|--------------|-------|-------|-----------|---------------|------------------------|
| 200.8 | SELENIUM (SE) | Not detected | 0.001 | mg/L | 07/03/18 | 07/05/18 | #2008M-180703B-AZ75869 |
| 200.7/11.2 | BORON (B) | Not detected | 0.025 | mg/L | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |
| 200.7/11.2 | CALCIUM (CA) | Not detected | 0.05 | mg/L | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |
| 200.7/11.2 | MAGNESIUM (MG) | Not detected | 0.025 | mg/L | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |
| 200.7/11.2 | POTASSIUM (K) | Not detected | 0.5 | mg/L | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |
| 200.7/11.2 | SODIUM (NA) | Not detected | 0.5 | mg/L | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |

Laboratory Control Spike Recovery

METALS

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

| Method | Compound Name | Spike Level mg/L | SPK Result mg/L | SPK % Recovery | Recovery Limits | Extract Date | Analysis Date | QC Group |
|-----------|----------------|---------------------|--------------------|-------------------|--------------------|-----------------|------------------|------------------------|
| EPA 200.7 | BORON (B) | 0.250 | 0.24 | 96.0 | 80-120 | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |
| EPA 200.7 | CALCIUM (CA) | 25.0 | 24.4 | 97.6 | 80-120 | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |
| EPA 200.7 | MAGNESIUM (MG) | 25.0 | 24.3 | 97.2 | 80-120 | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |
| EPA 200.7 | POTASSIUM (K) | 5.00 | 4.8 | 96.0 | 80-120 | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |
| EPA 200.7 | SODIUM (NA) | 25.0 | 24.6 | 98.4 | 80-120 | 07/03/18 | 07/09/18 | #2007M-180703B-AZ75926 |

Comments:

Laboratory Control Spike Recovery

METALS

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

| Method | Compound Name | Spike Level mg/L | SPK Result mg/L | SPK % Recovery | Recovery Limits | Extract Date | Analysis Date | QC Group |
|--------|---------------|---------------------|--------------------|-------------------|--------------------|-----------------|------------------|------------------------|
| 200.8 | SELENIUM (SE) | 0.100 | 0.090 | 90.0 | 80-120 | 07/03/18 | 07/05/18 | #2008M-180703B-AZ75869 |

Comments: _____

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

| Method | Analyte | Result | PQL | Units | Prep Date | Anal Date | QC Group |
|-----------|---------------------------------------|--------------|-----|----------------|-----------|-----------|-----------------------|
| SM 2320B | BICARBONATE AS CaCO ₃ | 4.5 | 2.0 | mg/L | 07/02/18 | 07/02/18 | #232W-180702A-AZ75899 |
| SM 2320B | CARBONATE AS CaCO ₃ | Not detected | 2.0 | mg/L | 07/02/18 | 07/02/18 | #232W-180702A-AZ75899 |
| SM 2320B | HYDROXIDE AS CaCO ₃ | Not detected | 2.0 | mg/L | 07/02/18 | 07/02/18 | #232W-180702A-AZ75899 |
| SM 2320B | TOTAL ALKALINITY AS CaCO ₃ | 4.5 | 2.0 | mg/L | 07/02/18 | 07/02/18 | #232W-180702A-AZ75899 |
| EPA 300.0 | NITRATE | Not detected | 0.5 | mg/L | 06/29/18 | 06/29/18 | #300W-180629A3-AZ7592 |
| EPA 300.0 | CHLORIDE | Not detected | 1.0 | mg/L | 07/02/18 | 07/02/18 | #300WD-180702A-AZ7592 |
| EPA 300.0 | SULFATE | Not detected | 1.0 | mg/L | 07/02/18 | 07/02/18 | #300WD-180702A-AZ7592 |
| SM 2510B | SPECIFIC CONDUCTANCE | 4.3 | 3.0 | umhos/cm @ 25C | 07/03/18 | 07/03/18 | #EC-180703C-AZ75878 |
| SM2540C | TOTAL DISSOLVED SOLIDS | Not detected | 10 | mg/L | 07/03/18 | 07/03/18 | #TDS2-A180703-AZ75924 |

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Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

| Method | Compound Name | Spike Lvl mg/L | SPK Res mg/L | DUP Res mg/L | SPK % Recov | DUP % Recov | RPD | RPD Max | QC Limits | Extract Date-Spk | Analysis Date-Spk | Extract Date-Dup | Analysis Date-Dup | QC Group |
|-----------|------------------------|-------------------|-----------------|-----------------|----------------|----------------|------|------------|--------------|---------------------|----------------------|---------------------|----------------------|-----------------------|
| EPA 300.0 | CHLORIDE | 20.0 | 18.5 | 18.6 | 92.5 | 93.0 | 0.54 | 20 | 90-110 | 07/02/18 | 07/02/18 | 07/02/18 | 07/02/18 | #300WD-180702A-AZ7592 |
| EPA 300.0 | SULFATE | 20.0 | 18.9 | 18.9 | 94.5 | 94.5 | 0.0 | 20 | 90-110 | 07/02/18 | 07/02/18 | 07/02/18 | 07/02/18 | #300WD-180702A-AZ7592 |
| EPA 300.0 | NITRATE | 22.1 | 21.2 | 21.7 | 95.9 | 98.2 | 2.3 | 20 | 90-110 | 06/30/18 | 06/30/18 | 06/30/18 | 06/30/18 | #300W-180629A3-AZ7592 |
| SM 2320B | BICARBONATE AS CaCO3 | 250 | 270 | 231 | 108 | 92.4 | 15.6 | 20 | 90-110 | 07/02/18 | 07/02/18 | 07/02/18 | 07/02/18 | #232W-180702A-AZ75899 |
| SM 2320B | TOTAL ALKALINITY AS CA | 250 | 270 | 231 | 108 | 92.4 | 15.6 | 20 | 90-110 | 07/02/18 | 07/02/18 | 07/02/18 | 07/02/18 | #232W-180702A-AZ75899 |
| SM2540C | TOTAL DISSOLVED SOLID | 221 | 217 | 215 | 98.2 | 97.3 | 0.93 | 20 | 80-120 | 07/03/18 | 07/03/18 | 07/03/18 | 07/03/18 | #TDS2-A180703-AZ75924 |

Comments:

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

| Method | Compound Name | Spike Lvl ihos/cm @ 2 | SPK Res 10s/cm @ | DUP Res 10s/cm @ | SPK % Recov | DUP % Recov | RPD | RPD Max | QC Limits | Extract Date-Spk | Analysis Date-Spk | Extract Date-Dup | Analysis Date-Dup | QC Group |
|---------|---------------------|--------------------------|---------------------|---------------------|----------------|----------------|-----|------------|--------------|---------------------|----------------------|---------------------|----------------------|---------------------|
| SM2510B | SPECIFIC CONDUCTANC | 1412 | 1400 | 1420 | 99.2 | 101 | 1.4 | 20 | 80-120 | 07/03/18 | 07/03/18 | 07/03/18 | 07/03/18 | #EC-180703C-AZ75878 |

Comments:

WETLAB

Sample/Sample Duplicate Results

Firebaugh Canal Water District
P.O. Box 97
Mendota, CA 93640

Sample ID: AZ75924
Client ID: CITY WELL

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Jeff Bryant

ARF: 86203

| Method | Analyte | Sample ID | Sample Result | Sample Dup Result | RPD | Max | PQL | Units | Sample Extract Date | Sample Analysis Date | Sample Dup Extract Date | Sample Dup Analysis Date |
|---------|------------------------|-----------|---------------|-------------------|-----|-----|-----|-------|---------------------|----------------------|-------------------------|--------------------------|
| SM2540C | TOTAL DISSOLVED SOLIDS | AZ75924 | 2330 | 2310 | 0.9 | 20 | 20 | mg/L | 07/03/18 | 07/03/18 | 07/03/18 | 07/03/18 |