[SUMMARY OF FINAL SUBMITTED VERSION]

PROGRESS REPORT BY PERMITTEE FOR 2017

Primary Owner: CHINO BASIN WATERMASTER Primary Contact:

Date Submitted: 03/29/2018

Application Number: A031369 Permit Number: 021225

Source(s) of Water DAY CREEK DAY CREEK DAY CREEK CUCAMONGA CREEK CUCAMONGA CREEK CUCAMONGA CREEK CUCAMONGA CREEK CUCAMONGA CREEK SAN ANTONIO CREEK	POD Parcel Number	County San Bernardino
SAN SEVAINE CREEK		Riverside San Bernardino
SAN SEVAINE CREEK		Riverside San Bernardino

MAX Direct Diversion Rate: 0 GPD MAX Collection to Storage: 68500 AC-FT Face Value: 68500 AC-FT

Permitted Use(s) Acres Direct Diversion Season Storage Season

Municipal 26887 01/01 to 12/31

1. Permit Review	
I have reviewed my water right permit	Yes

2. Compliance with Permit Terms and Conditions	
I am complying with all terms and conditions	Yes

Description of noncompliance with terms and conditions

3. Changes to the Project		
Intake location has been changed		
Description of intake location changes		
Type of use has changed		
Description of type of use changes		
Place of use has changed		
Description of place of use changes		
Other changes		
Description of other changes		

4-6. Permitted Project Status		
Project Status	Not Complete	
6a. Construction work has commenced	Yes	
6b. Construction is completed	No	
6c. Beneficial uses of water has commenced	Yes	
6d. Project will be completed within the time period specified in the permit	Yes	
6e. Explanation of work remaining to be done	On October 9, 2008, Permit 21225 was issued, allowing a period within which to make beneficial use through December 2057. Petitions for Extension of Time, to the same of December 31 2057, are pending for Permits 198985 (A0238473) and 20753 (A028996). In addition to annual operation and maintenance work at permitted diversions and storage facilities (groundwater recharge basins) and diversion points, CY 2017 work included the development of preliminary design reports, environmental documentation and final designs on nine recharge improvement projects as proposed in the 2013 Amendment to the 2010 Recharge Master Plan Update. These nine new rehcarge projects are, for the most part, expansions in recharge capacities at facilities; and, construction of these proposed recharge improvements is projected to be completed in 2020. The Chino Basin Watermaster and the Inland Empire Utilities Agency will update the Recharge Master Plan in 2018 and every five years thereafter and they will subsequently construct additional recharge improvements to enhance diversion and recharge capacity within the quantities allowed under the three permits.	
6f. Estimated date of completion	12/31/2057	

7. Purpose of Use		
Irrigation		
Industrial	Mixed Manufacturing	
Municipal	860000	
Power	640 MW	

Stockwatering	89700 Cows, 4000 Other Livestock	
Other	Commercial Supply and Landscape	

Irrigated Crops			
	Multiple Crops	Area Irrigated (Acres)	Primary Irrigation Method
Vegetables	No	13000	
Other	Yes	Mixed Crop types	

Special Use Categories	
C1. Are you using any water diverted under this right for the cultivation of cannabis?	No

8. Maximum Rate of Diversion for each Month		
Month	Maximum Rate of Diversion (CFS)	
January	253	
February	296.2	
March	28	
April	18.3	
May	49.3	
June	2.1	
July	21.8	
August	57.5	
September	3.2	
October	0.5	
November	0.5	
December	0.5	

9. Amount of Water Diverted and Used			
Month	Amount directly diverted (Acre-Feet)	Amount diverted or collected to storage (Acre-Feet)	Amount used (Acre-Feet)
January	0	3008.8	3008.8
February	0	1464.2	1464.2
March	0	107	107
April	0	79.9	79.9
May	0	274.5	274.5
June	0	68.7	68.7
July	0	67.1	67.1
August	0	176.2	176.2
September	0	43.6	43.6
October	0	22.7	22.7
November	0	16.9	16.9
December	0	12.9	12.9
Total	0	5342.5	5342.5
Type of Diversion	Diversion to Storage Only		
Comments			

Water Transfers		
9d. Water transfered	No	
9e. Quantity transfered (Acre-Feet)		
9f. Dates which transfer occurred	/ to /	

9g. Transfer approved by

Water Supply Contracts		
9h. Water supply contract	No	
9i. Contract with		
9j. Other provider		
9k. Contract number		
9l. Source from which contract water was diverted		
9m. Point of diversion same as identified water right		
9n. Amount (Acre-Feet) authorized to divert under this contract		
9o. Amount (Acre-Feet) authorized to be diverted in 2017		
9p. Amount (Acre-Feet) projected for 2018		
9q. Exchange or settlement of prior rights		
9r. All monthly reported diversion claimed under the prior rights		
9s. Amount (Acre-Feet) of reported diversion solely under contract		

10. Water Diversion Measurement	
a. Required to measure as of the date this report is submitted	Yes
b. Is diversion measured?	Yes
c. An alternative compliance plan was submitted to the division of water rights on	
d. A request for additional time was submitted to the division of water rights on	

Measurement ID number	M000438
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	College Heights West Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	08/16/2017

	PROGRESS REPORT BY PERMITTEE
M10. Estimated	0.1%
accuracy of measurement	
M11. Description of calibration method	1. Prior to arriving on site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
	14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model	N/A

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number	
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of College Heights West Basin.

Measurement ID number	M001340
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Upland Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate	07/01/2011

Best efforts were made to collect serial numbers, but they are not reasonably available.
03/01/2017
0.1%
1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. 8. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). 8. Respond quickly to any variation on the pressure calibrator. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
Maintenance as-needed, annual calibration
person who last calibrated the device or designed the measurement method
Efrain Russo
1.951.295.0775
e.russo@ieua.org
Person working under the supervision of a California Professional Engineer
A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency

	PROGRESS REPORT BY PERMITTEE
relevant explanation	
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Upland Basin.
Measurement ID	M001425

Measurement ID number	M001425
This Device/Method was used to measure water during the current reporting period	Yes

M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Montclair Basin 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	21523
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	03/02/2017
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	03/02/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. 8. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 13. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). 13. Respond quickly to any variation on the pressure calibrator. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone	1.951.295.0775

number	PROGRESS REPORT BY PERMITTEE				
M15. Email	e.russo@ieua.org				
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer				
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency				
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system				
M19. Data recorder device make	N/A				
M20. Data recorder serial number	N/A				
M21. Data recorder model number	N/A				
M22. Data recorder units of measurement	Acre-Feet				
M23. Frequency of data recording	More frequent than hourly				
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.				
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No				
M26. I report my diversion or storage date by telemetry to the following website					
M27. I have attached additional information on the method I used to calculate the volume of water	Yes				
M28. Describe any documents related to this measurement	Elevation-area-storage table of Montclair Basins 1-4				

device or method	method		
that are attached	ttached		
to this water use	ter use		
report			

Measurement ID number	M001426
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Montclair Basin 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	18712
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	04/12/2016
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/22/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 13. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 13. Verify that the instrument is in good condition. For the instrument to be internit_2017b.aspx?FORM_ID=340349

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	diversion or	

telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Montclair Basins 1-4

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Measurement ID number	M001427
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Montclair Basin 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/22/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance

	manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe	
the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional	Transducer's digital data is transmitted to a programmable logic controller (PLC),

PROGRESS REPORT BY PERMITTEE	
data recorder info	which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
m25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Montclair Basins 1-4

Measurement ID number	M001428
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Montclair Basin 4 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	16358
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	06/29/2015
M8. Additional info	
M9. Approximate date the measuring device	

was last calibrated or the measurement method was updated	
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. 6. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 16mA. 7. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). 8. Respond quickly to any variation on the pressure calibrator. 8. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A

	FROGRESS REPORT BY FERWITTEE
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Montclair Basins 1-4

M001429
Yes
Transducer
Brooks Basin Transducer
Pressure transducer
GE Druck
Y

	PROGRESS REPORT BY PERMITTEE
M5. Serial number	22116
M6. Model number	PTX 1830
M7. Approximate date of installation	06/19/2017
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	06/19/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. 8. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 13. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). 8. Respond quickly to any variation on the pressure calibrator. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the
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type for the qualified individual above and/or any other relevant explanation	Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Brooks Basin

Measurement ID number	M001430
This	Yes
Device/Method	

was used to measure water during the current reporting period M1. Briefly describe the measurement device or method M3. Nickname M3. Type of device / method M4. Device make M5. Serial number M6. Model number M7. Approximate date of method was updated the measuring device was last calibrated or the measuring device was last calibrated or the measurement M8. Approximate date of measurement M8. Additional in the measuring device was last calibrated or the measurement M8. Additional in the measurement method was updated with the measurement in the measurement M8. Additional in the measurement in the measuremen		THOORESO HE ON BY ENWITTED
describe the measurement device or method M2. Nickname M3. Type of device / method M4. Device make M5. Serial N/A M6. Model N7. Approximate date of installation M8. Additional info M9. Approximate date the measuring device was last calibrated or the measurement M7. Approximate date the measuring device was last calibrated or the measurement M7. Approximate date the measurement 8. 1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 9. 1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, noses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and fubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator on the manual of the instrument and check that the Fluke meter shows 4 MA. 1. Check the linearity of the instrument. A. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 5 percent of the range of the instrument and check that the Fluke meter shows 4 MA. 1. Check the linearity of the instrument and check that the Fluke meter shows 4 MA. 1. Check the linearity of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 5 percent of the range of the instrument and check that the Fluke meter shows 4 MA. 1. Check the linearity of the instrument to be in good condition, i	measure water during the current	
M3. Type of device / method M4. Device make M5. Serial number M6. Model number M7. Approximate date of installation M8. Additional info M9. Approximate date the measuring device was last calibrated or the measurement method was updated M10. Estimated accuracy of measurement M10. Estimated accuracy of fine measurement M10. Estimated accuracy of measurement M10. Estimated accuracy of fine measurement f	describe the measurement	Transducer
device / method M4. Device make M6. Model number M7. Approximate date of installation M8. Additional installation M8. Approximate date the measuring device was last calibrated or the measurement method was updated M10. Estimated accuracy of measurement M11. Estimated accuracy of measurement M12. Describtion of calibration method M13. Description of calibration method M14. Description of calibration method M15. Estimated accuracy of measurement M16. Estimated accuracy of measurement M17. Description of calibration method be represented by the fellow of calibration of calibration method be represented by the fellow of calibration of calibration method be represented by the fellow of calibration of calibration method be represented by the fellow of calibration method by the fellow of calibration of calibration method by the fellow of calibration method by the fellow of calibration of calibration of calibration method by the fellow of calibration of calibrat	M2. Nickname	8th Street Basin Transducer (North Cell)
M5. Serial number M6. Model number M7. Approximate date of installation M8. Additional lest efforts were made to collect serial numbers, but they are not reasonably available. M9. Approximate date the measurement method was updated M10. Estimated accuracy of measurement 1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor is clean and dry, insert the sensor in the calibrator tube. Ingithen the sensor to check that the Fluke meter shows 4 mA. 11. Check the minimum pressure (zero) to check that the Fluke meter shows 4 mA. 11. Check the instrument and check that the Fluke meter shows 10 mA. D. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 10 mA. D. Increase pressure to 15 percent of the range of the instrument and check that the Fluke meter shows 10 mA. O. Increase pressure to 15 percent of the range of the instrument and check that the Fluke meter shows 10 mA. C. Increase pressure to 15 percent of the range of the instrument and check that the Fluke meter shows 10 mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 10 mA. C. Increase pressure to 75 percent of the range of the instrument is in good condition. For the instrument to leaving t		Pressure transducer
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date the measuring device was last calibrated or the measurement method was updated M10. Estimated accuracy of measurement 1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument of calibration method M11. Description of calibration method Fluke meter shows 4 mA. 11. Check the linearity of the instrument. A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the range of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. M12. Describe the maintenance schedule for the		
accuracy of measurement 1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. M12. Describe the maintenance schedule for the	date the measuring device was last calibrated or the measurement method was	08/09/2017
2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the linearity of the instrument and check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.	accuracy of	0.1%
the maintenance schedule for the Maintenance as-needed, annual calibration	of calibration method	2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
	the maintenance schedule for the	Maintenance as-needed, annual calibration

Information for the	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe	Elevation-area-storage table of 8th Street Basin

any documents related to this measurement device or method that are attached
to this water use
report

Measurement ID number	M001431
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	8th Street Basin Transducer (South Cell)
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	21080
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	03/20/2017
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	08/09/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. IntPrint_2017b.aspx?FORM_ID=340349

	PROGRESS REPORT BY PERMITTEE
	D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or	nitPrint 2017h 2002FOPM ID=340340

storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of 8th Street Basin

•	
Measurement ID number	M001432
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	7th Street Basin Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	08/09/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter

calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site. M12. Describe the maintenance Maintenance as-needed, annual calibration schedule for the device/method Information for the person who last calibrated the device or designed the measurement method M13. Name Efrain Russo M14. Phone 1.951.295.0775 number M15. Email e.russo@ieua.org Qualifications Person working under the supervision of a California Professional Engineer individual M17. License number and type for the A person trained to operate and maintain water measurement devices, supervised by qualified Randy Lee, a California-registered Professional Engineer (License #68573), and the individual Executive Manager of Operations and Maintenance for the Inland Empire Utilities above and/or Agency any other relevant explanation M18. Type of data recorder Other: Supervisory control and data acquisition (SCADA) system device / method recorder device N/A recorder serial N/A recorder model N/A recorder units of Acre-Feet measurement M23. Frequency More frequent than hourly of data recording

M16.

of the

M19. Data

make M20. Data

number M21. Data

number M22. Data

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M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
m25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of 7th Street Basin

Measurement ID number	M001433
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Ely Basin 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	22066
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	05/18/2017
M8. Additional info	
M9. Approximate date the	05/18/2017

measuring device was last calibrated or the measurement method was updated	
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 13. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 14. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). 15. Respond quickly to any variation on the pressure calibrator. 16. C. Show the indicated mAs on the Fluke meter. 17. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device	N/A nitBrint 2017h 20022EOPM ID=340349

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M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Ely Basins 1-3

Measurement ID number	M001434
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Ely Basin 2 Transducer
M3. Type of device / method	Pressure transducer

I	PROGRESS REPORT BY PERMITTEE
M4. Device make	PMC
M5. Serial number	22067
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	06/01/2015
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	07/05/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License	A person trained to operate and maintain water measurement devices, supervised by

number and type for the qualified individual above and/or any other relevant explanation	Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Ely Basins 1-3

Measurement ID number	M001435
This	Yes

	PROGRESS REPORT BY PERMITTEE
Device/Method was used to measure water during the current reporting period	
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Ely Basin 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	16162
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	06/12/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	07/05/2016
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance	Maintenance as-needed, annual calibration
I	

	PROGRESS REPORT BY PERMITTEE
schedule for the device/method	
Information for the	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate	Yes

the volume of water	
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Ely Basins 1-3

report	
Measurement ID number	M001449
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	07/16/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A.

Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.

	request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this	No

report is submitted	
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

M001450
Yes
Transducer
Turner Basin 2 Transducer
Pressure transducer
PMC
N/A
Versaline VL 4513
04/21/2016
Best efforts were made to collect serial numbers, but they are not reasonably available.
02/23/2017
0.1%

	PROGRESS REPORT BY PERMITTEE
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. 8. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. 9. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 10. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe	11. Committe didn't de douve didn't constitution to locaving the site.
the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of	Acre-Feet

measurement	
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

Measurement ID number	M001455
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	02/25/2016
M8. Additional	Best efforts were made to collect serial numbers, but they are not reasonably

info	available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 13. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder	Other: Supervisory control and data acquisition (SCADA) system

	PROGRESS REPORT BY PERMITTEE
device / method	
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins
Measurement ID	M001456

M2. Nickname	Turner Basin 4a Transducer
M3. Type of	Pressure transducer
device / method M4. Device make	
M5. Serial	
number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	06/10/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications	Person working under the supervision of a California Professional Engineer

of the individual	
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

	PROGRESS REPORT BY PERMITTEE
Measurement ID number	M001463
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Turner Basin 4b Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	06/11/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/23/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving th

	PROGRESS REPORT BY PERMITTEE
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I	Yes

used to calculate the volume of water	
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

M001464
Yes
Transducer
Turner Basin 4c Transducer
Pressure transducer
GE Druck
N/A
PTX 1830
06/12/2014
Best efforts were made to collect serial numbers, but they are not reasonably available.
02/23/2017
0.1%
1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to

check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.

	request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of	No

the date this report is submitted	
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Turner Basins

Measurement ID number	M001480
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 1a Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of	0.1%

	PROGRESS REPORT BY PERMITTEE
measurement	
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. 8. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 13. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). 8. Respond quickly to any variation on the pressure calibrator. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe	14. Commit that no delive diarnic exist prior to leaving the site.
the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A

	PROGRESS REPORT BY PERIVITIEE
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001481
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 1b Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of	05/03/2014

installation	
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated	
accuracy of	0.1%
measurement	G.170
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance schedule for the	Maintenance as-needed, annual calibration
device/method	norman who look calibrated the device or designed the reconstruction of
	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
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	PROGRESS REPORT BY PERIVITIEE
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001482
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the	Transducer

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measurement device or method	
M2. Nickname	RP-3 Cell 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	18320
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	03/01/2016
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	01/17/2018
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.
M12. Describe the maintenance schedule for the	Maintenance as-needed, annual calibration
device/method	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org

	PROGRESS REPORT BY PERMITTEE
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached	Elevation-area-storage table of the RP-3 Basins

Measurement ID

number This

M001483

This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 3a Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	13165
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	04/14/2015
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. 6. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. 7. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 12mA. 8. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 9. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: 13. Respond quickly to any variation on the pressure internit_2017b.aspx?FORM_ID=340349

	PROGRESS REPORT BY PERMITTEE
	calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have	Yes

attached additional information on the method I used to calculate the volume of water	
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

report	
Measurement ID number	M001484
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 3b Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	04/20/2015
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8.

Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site. M12. Describe the maintenance Maintenance as-needed, annual calibration schedule for the device/method Information for the person who last calibrated the device or designed the measurement method M13. Name Efrain Russo M14. Phone 1.951.295.0775 number M15. Email e.russo@ieua.org M16. Qualifications Person working under the supervision of a California Professional Engineer of the individual M17. License number and type for the A person trained to operate and maintain water measurement devices, supervised by qualified Randy Lee, a California-registered Professional Engineer (License #68573), and the individual Executive Manager of Operations and Maintenance for the Inland Empire Utilities above and/or Agency any other relevant explanation M18. Type of data recorder Other: Supervisory control and data acquisition (SCADA) system device / method M19. Data recorder device N/A make M20. Data recorder serial N/A number M21. Data recorder model N/A number M22. Data recorder units of Acre-Feet measurement M23. Frequency More frequent than hourly of data recording Transducer's digital data is transmitted to a programmable logic controller (PLC), M24. Additional which relays the data via radio to a computer that stores the information. This is data recorder info facilitated by the SCADA system. M25. I am No

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required to report my diversion or storage data by telemetry as of the date this report is submitted	
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001485
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 4a Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2012
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
date the measuring device was last calibrated or the measurement	02/21/2017

method was updated	
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 12mA. 13. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 14. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). 13. Respond quickly to any variation on the pressure calibrator. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A

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M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins

Measurement ID number	M001486
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	RP-3 Cell 4b Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	20843
M6. Model	Versaline VL 4513

number	
M7. Approximate	
date of installation	02/02/2017
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	02/21/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. 12. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. 13. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). 13. Respond quickly to any variation on the pressure calibrator. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency

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any other relevant explanation	
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of the RP-3 Basins
Measurement ID number	M001487

Measurement ID number	M001487
This Device/Method was used to measure water during the current reporting period	Yes

M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Declez Basin Cell 3 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	PMC
M5. Serial number	N/A
M6. Model number	Versaline VL 4513
M7. Approximate date of installation	11/28/2016
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	03/09/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the s
M12. Describe the maintenance schedule for the	Maintenance as-needed, annual calibration
device/method	
	e person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone	1.951.295.0775

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number M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement	Elevation-area-storage table of Declez Basin

device or method	method		
that are attached	ttached		
to this water use	ter use		
report			

Measurement ID number	M001488
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Declez Basin Cell 2 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2014
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	03/09/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be often the proper transfer of the instrument to be often the proper transfer of the instrument to be often the proper transfer of the instrument to be often to a proper transfer of the instrument to be often to a proper transfer of the instrument to be often to a proper transfer of the instrument to be often to a proper transfer of the instrument to be often to a proper transfer of the instrument to be often to a proper transfer of the instrument to be often to a proper transfer of the p

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	in good condition, it must: A. Be in an acceptable accuracy range (minimum deviati according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed 14. Confirm that no active alarms exist prior to leaving the site.		
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration		
	e person who last calibrated the device or designed the measurement method		
M13. Name	Efrain Russo		
M14. Phone number	1.951.295.0775		
M15. Email	e.russo@ieua.org		
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer		
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency		
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system		
M19. Data recorder device make	N/A		
M20. Data recorder serial number	N/A		
M21. Data recorder model number	N/A		
M22. Data recorder units of measurement	Acre-Feet		
M23. Frequency of data recording	More frequent than hourly		
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.		
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No		
M26. I report my diversion or storage date by			

telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Declez Basin

report	
Measurement ID number	M001490
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Transducer
M2. Nickname	Declez Basin Cell 1 Transducer
M3. Type of device / method	Pressure transducer
M4. Device make	GE Druck
M5. Serial number	N/A
M6. Model number	PTX 1830
M7. Approximate date of installation	07/01/2013
M8. Additional info	Best efforts were made to collect serial numbers, but they are not reasonably available.
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	03/09/2017
M10. Estimated accuracy of measurement	0.1%
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to work. 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitter calibration method per instrument specifications and Operations and Maintenance

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	manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument, pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to be in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed. 14. Confirm that no active alarms exist prior to leaving the site.
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration
Information for the	person who last calibrated the device or designed the measurement method
M13. Name	Efrain Russo
M14. Phone number	1.951.295.0775
M15. Email	e.russo@ieua.org
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system
M19. Data recorder device make	N/A
M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional	Transducer's digital data is transmitted to a programmable logic controller (PLC),

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data recorder info	which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of Declez Basin

Measurement ID number	M007954		
This Device/Method was used to measure water during the current reporting period	Yes		
M1. Briefly describe the measurement device or method	Transducer		
M2. Nickname	College Heights East Basin Transducer		
M3. Type of device / method	Pressure transducer		
M4. Device make	PMC		
M5. Serial number	20670		
M6. Model number	Versaline VL 4513		
M7. Approximate date of installation	03/21/2017		
M8. Additional info			
M9. Approximate date the measuring device	08/16/2017		

was last calibrated or the measurement method was updated				
M10. Estimated accuracy of measurement	0.1%			
M11. Description of calibration method	1. Prior to arriving on-site, notify Groundwater Recharge Operations of intent to word 2. Check the surrounding area around the sensor for safety. The water level must be below the sensor location. 3. Remove the transducer from the case. 4. Clean the transducer, removing any debris from the head of the sensor. 5. Check the transmitt calibration method per instrument specifications and Operations and Maintenance manual. 6. Record most recent transducer reading. 7. Prepare the calibrator equipment: Meriam (Smart Manometer), pressure pump, hoses, calibrator tube, and Fluke Process calibrator (Fluke meter, with range of 4 to 20 Milliamps [mA]). 8. Inspect Moisture Protection (MP-11) unit and tubing for cracks and leaks. 9. After the sensor is clean and dry, insert the sensor in the calibrator tube. Tighten the sensor to ensure a good seal. 10. Using the chart scaled to the proper range of the instrument pump to apply pressure to the instrument. Check the minimum pressure (zero) to check that the Fluke meter shows 4mA. 11. Check the linearity of the instrument: A. Increase pressure to 25 percent of the range of the instrument and check that the Fluke meter shows 8 mA. B. Increase pressure to 50 percent of the range of the instrument and check that the Fluke meter shows 12mA. C. Increase pressure to 75 percent of the range of the instrument and check that the Fluke meter shows 16mA. D. Increase pressure to the maximum pressure range (using the chart referenced above). The Fluke meter should show 20mA, which is the maximum reading of the instrument. 12. Verify that the instrument is in good condition. For the instrument to in good condition, it must: A. Be in an acceptable accuracy range (minimum deviation according to manufacturers). B. Respond quickly to any variation on the pressure calibrator. C. Show the indicated mAs on the Fluke meter. 13. Prior to leaving site, request an operational test of the equipment on which maintenance was performed.			
M12. Describe the maintenance schedule for the device/method	Maintenance as-needed, annual calibration			
	e person who last calibrated the device or designed the measurement method			
M13. Name	Efrain Russo			
M14. Phone number	1.951.295.0775			
M15. Email	e.russo@ieua.org			
M16. Qualifications of the individual	Person working under the supervision of a California Professional Engineer			
M17. License number and type for the qualified individual above and/or any other relevant explanation	A person trained to operate and maintain water measurement devices, supervised by Randy Lee, a California-registered Professional Engineer (License #68573), and the Executive Manager of Operations and Maintenance for the Inland Empire Utilities Agency			
M18. Type of data recorder device / method	Other: Supervisory control and data acquisition (SCADA) system			
M19. Data recorder device make	N/A			

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M20. Data recorder serial number	N/A
M21. Data recorder model number	N/A
M22. Data recorder units of measurement	Acre-Feet
M23. Frequency of data recording	More frequent than hourly
M24. Additional data recorder info	Transducer's digital data is transmitted to a programmable logic controller (PLC), which relays the data via radio to a computer that stores the information. This is facilitated by the SCADA system.
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage date by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	Yes
M28. Describe any documents related to this measurement device or method that are attached to this water use report	Elevation-area-storage table of College Heights East Basin

11. Storage					
Reservoir name	Spilled this year	Feet below spillway at maximum storage	Completely	Feet below spillway at minimum storage	Method used to measure water level
Chino Groundwater Basin	No	0	No	0	Regional Groundwater Level Monitoring Network

Conservation of Water			
12. Are you now employing water conservation efforts?	Yes		
Description	On October 9, 2008, Permit 21225 was issued, allowing a period within which to make		

of water efforts

beneficial use through December 2057. Petitions for Extension of Time, to the same of conservation December 31 2057, are pending for Permits 198985 (A0238473) and 20753 (A028996). In addition to annual operation and maintenance work at permitted diverions and storage facilities (groundwater recharge basins)and diversion points, CY 2015 work included the development of preliminary design reports, environmental documentation and dinal designs on nine recharge improvement projects as proposed in the 2013 Amendment to the 2010 Recharge Master Plan Update. These nine new rehearge projects are, for the most part, expansions in recharge capacities at facilities; and, construction of these proposed recharge improvements is projected to be completed in 2020. The Chino Basin Watermaster and the Inland Empire Utilities Agency will update the Recharge Master Plan in 2018 and every five years thereafter and they will subsequently construct additional recharge improvements to enhance diversion and recharge capacity within the quantities allowed under the three permits.

13. Amount of water conserved

Water Quality and Wastewater Reclamation

14. During the period covered by this Report, did you use reclaimed water from a wastewater treatment facility, water from a desalination facility, or water polluted by waste to a degree which unreasonably affects the water for other beneficial uses?

Yes

15. Amount of reclaimed, desalinated, or polluted water used

Conjuctive Use of Groundwater and Surface Water

16. During the period covered by this Report, were you using groundwater in lieu of available surface water authorized under your permit?

Amounts of groundwater used

Additional Remarks

The Chino Basin Watermaster holds three permitted rights for diversion and recharge of stormwater within the Santa Ana River Watershed. Permit 19895 covers the Day Creek Project Facilities and allows the diversion of 15,000 acre-feet annually, from November 1 through April 30 of the succeeding year, to underground storage through recharge basins and spreading grounds along Day Creek. Permit 20753 covers the East Etiwanda Creek and San Sevaine Creek Facilities and allows the diversion of 27,000 acre-feet annually, from October 1 through May 1 of the succeeding year, to underground storage through recharge basins and spreading grounds along East Etiwanda and San Sevaine Creeks. Permit 21225 allows the annual diversion of 68,500 acre-feet, from January 1 to December 31, to underground storage through recharge basins and spreading grounds along Deer, Day, Etiwanda, San Sevaine, Chino, San Antonio, and Cucamonga Creeks. (For clarity, the notice listed Deer Creek as being in Riverside County, but it is located entirely within San Bernardino County.) Some facilities covered under Permits 19895 and 20753 are additionally permitted for additional recharge under Permit 21225. Chino Basin Watermaster conjunctively manages spreading ground and basin recharge pursuant to the three permits and believes the permits are best managed conjunctively. While several phases of groundwater recharge facility construction have been completed, pursuant to these three permits, the Chino Basin Stakeholders continue to implement additional improvements contemplated in the Recharge Master Plan and Optimum Basin Management Program. Furthermore, since precipitation within the Chino Basin watershed is both flashy and subject to extreme variations in annual rainfall volumes (droughty), it is anticipated that diversion to storage may also vary dramatically and infrequently reach full permitted volumes. Pursuant to Permit 21225, Watermaster has through the year 2057 to make full beneficial use of the allowed storage volume, and similar time extensions are currently pending for permits 19895 and 20753, to facilitate conjunctive implementation and operation of the diversion and recharge basin and spreading ground network. With respect to Question 7, Watermaster's permits allow use for Industrial, Irrigation and Municipal purposes (and, in the case of Permit 21225, Stockwatering). During the calendar year, the total volume of groundwater extracted from the Chino Basin was approximately 135,544 acrefeet: including 114,243 acre-feet for municipal (Appropriators) use, 17,921 acre-feet for Agricultural (Crops and Stockwatering/Dairy), 28,253 acre-feet by Chino Basin Desalter Authority (24,600 acre-feet of which was made available for municipal use), 3,380 acre-feet for Non-Agricultural Overlying (Industrial) use and 283 acre-feet for energy production. With respect to Question 8, these volumes reflect the quantities of recharge diverted to underground storage pursuant to Permits 19895, 20753, and 21225, as Chino Basin Watermaster conjunctively manages all diversions to the recharge basin and spreading ground network. With respect to Question 9, the daily volume of water diverted at each facility was measured using pressure transducers and physical configurations, converted into an average 24hour flow rate, summed, and the maximum for each month reported. With respect to Question 13, during the calendar year, the Chino Desalters extracted 28,253 acre-feet of contaminated stored groundwater (degraded by TDS, nitrate, and TCE), producing 24,600 acre-feet of (reclaimed) product water. Additionally, 34,231 acre-feet of reclaimed (recycled) water were used of which 14,447 acre-feet were recharged and 19,784 acre-feet were directly used.

Attachments				
File Name	Description	Size		
20170926_StormwaterComplianceReport_F16_17_FINAL.pdf		2 MB		
EAS - 21225.zip	Elevation-area-storage tables for recharge facilities in the Chino Basin diverting water under permit 21225	288 KB		

Contact Information of the Person Submitting the Form			
First Name	Edgar		
Last Name	Tellez Foster		
Relation to Water Right	Primary Owner of Record		

Information on Certification and Signatory		
Name of Person Signing and Certifying the Report	Edgar Tellez Foster, PhD	
Date of Signature	03/29/2018	