

COLORADO MUTUAL WATER COMPANY

Attachment I.1.a.

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GRESHAM | SAVAGE
ATTORNEYS AT LAW
3750 UNIVERSITY AVE.
STE. 250
RIVERSIDE, CA 92501-3335
(951) 684-2171

ANTELOPE VALLEY UNITED MUTUAL GROUP'S INFORMATION AND MATERIALS RESPONSIVE TO
DECEMBER 12, 2012 DISCOVERY ORDER FOR PHASE 4 TRIAL

FOR ATTNY'S
GIVEN 5-6-09

COLORADO MUTUAL WATER CO = 3376-031-020
P.O. Box 482
Lancaster, Ca. 93584

Carvel Brown = 3376-031-023
43841 90th St. E.
Lancaster, Ca. 93535

Sayle & Frances Brown Trust = 3376-031-004
20101 Chapel Point Lane = 3376-031-003
Cornelius, N.C. 28031-7055

Julietta Collado = 3376-031-001
1926 W. Harrison St. # 605
Chicago, Ill. 60612

Geraldo & Perella Crist = 3376-031-018
3640 East H-2
Lancaster, Ca. 93535

Don Eaton = 3376-031-024
43803 90th St. East
Lancaster, Ca. 93535

* 90th St. LLC
Ecology Auto Wrecking = 3376-031-022
14150 Vine Place
Cerritos, Ca. 90703

John Furubotten = 3376-031-017
43805 90th St. East
Lancaster, Ca. 93535

Dennis & Linda Glau = 3376-031-010
1030 Milyway Place
Diamond Bar, Ca. 91765

Jack & Norma Harvey = 3376-031-009
43807 90th St. East
Lancaster, Ca. 93535

COLORADO MUTUAL WATER CO
P.O. Box 482
Lancaster, Ca. 93584

Jose & Elizabeth Jimenez = 3376-031-019
1813 Saint James Ct.
Lancaster, Ca. 93534

Jacqueline King = 3376-031-008
43847 90th St. East
Lancaster, Ca. 93535

Wen & Li-yuh Lai = 3376-031-013
6830 Rosemead Blvd # 18
San Gabriel, Ca. 91775-1540

Harry D. & James E. Longthorne = 3376-031-014
4807 Bartlett Ave
Rosemead, Ca. 91770-1258

Pedro & Kathy Mejia = 3376-031-015
43843 90th St. East = 3376-031-016
Lancaster, Ca. 93535

Lorenzo Placido = 3376-031-007
29 W 647 Schick Rd.
Bartlett, Ill. 60103

Sun Reading = 3376-031-011
43845 90th St. East
Lancaster, Ca. 93535

Ron & Adair Stratman = 3376-031-002
43909 90th St. East
Lancaster, Ca. 93535

Michael Steffan = 3376-031-012
43911 90th St. East
Lancaster, Ca. 93535

COLORADO MUTUAL WATER CO
P.O. Box 482
Lancaster, Ca. 93584

Jovita Uycalderon = 3376-031-006
P.O. Box 6498
Lancaster, Ca. 93539-6498

Linda Vienot = 3376-031-005
43907 90th St. East
Lancaster, Ca. 93535

Yen/Wong/IRA Services cst div et al
Yu-Sze Yen = 3376-031-021
1159 Fremont St.
San Jose, Ca. 95126

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COLORADO MUTUAL WATER COMPANY

Attachment I.3.a.i.

Colorado Mutual Water Co.

Well Water Extracted in years 2000 through 2004

Calculations based on May 2007 Edison Well Efficiency test and Edison meter readings

There are two pumps on the single Edison meter: well pump and booster pump.

All water is pumped through both pumps so the power/volume rate is the sum of the well and booster rates

(1) Well pump rated at	616 kWh/Acre-Ft
(2) Booster pump rated at	227 kWh/Acre-Ft
Total pumping rate =	843 kWh/Acre-Ft

<u>Year</u>	<u>kWh</u>	<u>Acre Ft.</u>
2000	33,770	40.1
2001	31,450	37.3
2002	33,549	39.8
2003	22,431	26.6
2004	31,766	37.7
Total	152,966	181.5

Average **36.3**

EDISON USAGE – COLORADO MUTUAL WATER CO.

<u>Date</u>	<u>kWh</u>		
12/14/99 – 1/13/00	1,390		
1/13/00 - 2/11/00	1,260		
2/11/00 - 3/15/00	2,080		
3/15/00 - 4/12/00	2,290		
4/12/00 - 5/12/00	2,400		
5/12/00 - 6/12/00	4,850		
6/12/00 - 7/13/00	4,730		
7/13/00 - 8/11/00	4,560		
8/11/00 - 9/12/00	3,940		
9/12/00 - 10/12/00	3,040		
10/12/00 - 11/13/00	1,840		
11/13/00 - 12/13/00	1,390	Sub-total 2000	33,770
12/13/00 - 1/12/01	1,190		
1/12/01 - 2/13/01	1,070		
2/13/01 - 3/15/01	840		
3/15/01 - 4/13/01	1,340		
4/13/01 - 5/14/01	2,590		
5/14/01 - 6/12/01	3,760		
6/12/01 - 7/13/01	4,580		
7/13/01 - 8/11/01	4,370		
8/11/01 - 9/13/01	4,710		
9/13/01 - 10/11/01	3,570		
10/11/01 - 11/13/01	2,340		
11/13/01 - 12/12/01	1,090	Sub-total 2001	31,450
12/12/01 - 1/14/02	1,120		
1/14/02 - 2/12/02	1,280		
2/12/02 - 3/14/02	1,660		
3/14/02 - 4/13/02	2,460		
4/13/02 - 5/14/02	3,030		
5/14/02 - 6/12/02	3,640		
6/12/02 - 7/13/02	5,520		
7/13/02 - 8/12/02	4,960		
8/12/02 - 9/12/02	4,200		
9/12/02 - 10/11/02	2,870		
10/11/02 - 11/13/02	1,920		
11/13/02 - 12/13/02	889	Sub-total 2002	33,549

EDISON USAGE -- COLORADO MUTUAL WATER CO. Page 2

12/13/02 - 1/14/03	636
1/14/03 - 2/12/03	1,266
2/12/03 - 3/14/03	579
3/14/03 - 4/15/03	1,557
4/15/03 - 5/14/03	1,484
5/14/03 - 6/12/03	2,974
6/12/03 - 7/14/03	4,881
7/14/03 - 8/12/03	2,054
8/12/03 - 9/12/03	3,406
9/12/03 - 10/10/03	890
10/10/03 - 11/12/03	1,977
11/12/03 - 12/15/03	727
	Sub-total 2003 22,431
12/15/03 - 1/14/04	537
1/14/03 - 2/13/04	1,266
2/13/04 - 3/15/04	903
3/15/04 - 4/14/04	2,357
4/14/04 - 5/13/04	3,139
5/13/04 - 6/14/04	3,441
6/14/04 - 7/14/04	4,784
7/14/04 - 8/12/04	5,308
8/12/04 - 9/13/04	4,959
9/13/04 - 10/13/04	3,023
10/13/04 - 11/12/04	1,182
11/12/04 - 12/14/04	867
	Sub-total 2004 31,766



Confidential / Proprietary Information

May 4, 2007

MELODY FARGO
COLORADO MUTUAL WATER
COMPANY
43841 90TH ST. E.
LANCASTER, CA 93535

HYDRAULIC TEST RESULTS, Plant: BOOSTER

Location: 43843 90TH ST E/J-10 HP: 10

Cust. #: 0-010-7212

Serv. Acct. #: 003-4917-39

Meter: 3412-912

Pump Ref #: 2961

In accordance with your request, a test was made on your centrifugal booster pump on April 30, 2007. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

Pump Mfg.: TEEL

No.: 4P940

Motor Mfg.: DAYT

No.: 6Z120R169F

RESULTS

Discharge Pressure, PSI	58.0
Discharge Head, PSI	134.0
Suction Head or Lift, Feet	8.1
Total Head, Feet	125.9
Capacity, GPM	172.0
Acre Feet Pumped in 24 Hours	0.760
kW Input to Motor	7.2
HP Input to Motor	9.7
Motor Load (%)	82.6
Measured Speed of Pump, RPM	3,526
kWh per Acre Foot:	227
Overall Plant Efficiency (%)	56.6

This test was taken near the mid-point of this pump's operating range of 54 psi to 62 psi.

DAN L. JOHNSON
Manager
Hydraulic Services



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May 4, 2007

MELODY FARGO
COLORADO MUTUAL WATER
COMPANY
43841 90TH ST. E.
LANCASTER, CA 93535

HYDRAULIC TEST RESULTS, Plant: WELL

Location: 43843 90TH ST E/J-10 HP: 20

Cust. #: 0-010-7212 Serv. Acct. #: 003-4917-39

Meter: 3412-912 Pump Ref #: 2960

In accordance with your request, a test was made on your turbine well pump on April 30, 2007. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

Pump Mfg.: WINTR

No.: 7740

Motor Mfg.: US

No.: 2867054

RESULTS

Discharge Pressure, PSI	5.3
Standing Water Level, Feet	311.0
Drawdown, Feet	3.0
Discharge Head, Feet	12.2
Pumping Water Level, Feet	314.0
Total Head, Feet	326.2
Capacity, GPM	187.0
GPM per Foot Drawdown	62.3
Acre Feet Pumped in 24 Hours	0.827
kW Input to Motor	21.2
HP Input to Motor	28.4
Motor Load (%)	125.1
Measured Speed of Pump, RPM	1,760
kWh per Acre Foot:	616
Overall Plant Efficiency (%)	54.2

DAN L. JOHNSON
Manager
Hydraulic Services

Colorado Mutual Water Co.

Data from Power Usage bills. Billing is from current date to

			KWH	12 mo KWH	Acre Ft/KWH
	2010	15-Dec			
1	2011	14-Jan	742		
2	2011	14-Feb	947		
3	2011	15-Mar	845		
4	2011	13-Apr	1103		
5	2011	12-May	1897		
6	2011	14-Jun	2303		
7	2011	14-Jul	2666		
8	2011	11-Aug	2563		
9	2011	13-Sep	3057		
10	2011	13-Oct	1927		
11	2011	15-Nov	1536		
12	2011	14-Dec	695	20281	24.06
13	2012	16-Jan	784		
14	2012	14-Feb	1029		
15	2012	15-Mar	1418		
16	2012	13-Apr	1957		
17	2012	14-May	2108		
18	2012	13-Jun	2666		
19	2012	13-Jul	2853		
20	2012	13-Aug	2972		
21	2012	12-Sep	2819		
22	2012	15-Oct	2416		
23	2012	14-Nov	1654	23371	27.72

Total 23 months 42957 kWh for 23 months

Average 1868 kWh per month

Average x 12 22412 kWh

12 month 26.59

COLORADO MUTUAL WATER COMPANY

Well Water Extraction for Years 2000-2004 and 2011-2012

Prepared December 14, 2012

Well groundwater production (amount of water pumped) is required for Antelope Valley Water Adjudication Phase 4 trial. Colorado Mutual water extraction estimate is based on Edison records of power consumed in kWh and pump efficiency test. The pump efficiency test gives us an estimate of pumping rate in kWh/Acre-Ft. kWh power usage from Edison is divided by the kWh/Acre-Ft rate to get water volume extracted in Acre-Ft. The latest Edison pump efficiency test was conducted April 30, 2007.

Two pumps are the only source of electricity usage on the Edison meter: (1) the well turbine pump, and (2) Booster Pump (Pressure Pump). The Edison test gives us a rate in kWh/Acre-Ft rate for each pump. By adding rates of the two pumps we get a kWh/Acre-Ft rate for water extraction.

Water pumping rates for the pumps are:

Well Pump	616 kWh/Acre-Ft
<u>Booster Pump</u>	<u>227 kWh/Acre-Ft</u>
Total	843 KWH/ Acre-Ft

For the 2000-2004 years, water production was as follows.

<u>Year</u>	<u>kWh</u>	<u>Acre Ft.</u>
2000	33,770	40.1
2001	31,450	37.3
2002	33,549	39.8
2003	22,431	26.6
2004	31,766	37.7
Total	152,966	181.5

For the years 2011-2012, we compute the average kWh power usage over the 23 months of available data, from December 15, 2010 to November 14, 2012. That gives us a monthly average power usage of 1868 kWh. Multiplying that average by 12 gives us power consumption for one year based on the average power consumption.

$$1868 \times 12 = 22412 \text{ kWh per year}$$

$$22412 \text{ kWh} / (843 \text{ kWh/Acre-Ft}) = 26.6 \text{ Acre Ft per year rate for 2011-2012}$$

Note that the lower production years are a result of vacant homes served by Colorado Mutual.

Colorado Mutual Water Co.

Data from Power Usage bills. Billing is from current date to previous month date.

		KWH	12 mo KWH	Acre Ft/KWH	
	2010	15-Dec			
1	2011	14-Jan	742		
2	2011	14-Feb	947		
3	2011	15-Mar	845		
4	2011	13-Apr	1103		
5	2011	12-May	1897		
6	2011	14-Jun	2303		
7	2011	14-Jul	2666		
8	2011	11-Aug	2563		
9	2011	13-Sep	3057		
10	2011	13-Oct	1927		
11	2011	15-Nov	1536		
12	2011	14-Dec	695	20281	24.06 Acre Ft pumped from 15 Dec 1010 to 14 Dec 2011
13	2012	16-Jan	784		
14	2012	14-Feb	1029		
15	2012	15-Mar	1418		
16	2012	13-Apr	1957		
17	2012	14-May	2108		
18	2012	13-Jun	2666		
19	2012	13-Jul	2853		
20	2012	13-Aug	2972		
21	2012	12-Sep	2819		
22	2012	15-Oct	2416		
23	2012	14-Nov	1654	23371	27.72 Acre Ft pumped from 15 Nov 1011 to 14 Dec 2011
Total 23 months			42957 kWh for 23 months		
Average			1868 kWh per month		
Average x 12			22412 kWh		
12 month			26.59		

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COLORADO MUTUAL WATER COMPANY
Attachment I.3.b.i.

GRESHAM | SAVAGE
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(951) 684-2171

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COLORADO MUTUAL WATER COMPANY

Attachment I.3.c.i.

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(951) 684-2171

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Business Entity Detail

Data is updated weekly and is current as of Friday, December 14, 2012. It is not a complete or certified record of the entity.

Entity Name:	COLORADO MUTUAL WATER CO.
Entity Number:	C0286674
Date Filed:	05/18/1954
Status:	ACTIVE
Jurisdiction:	CALIFORNIA
Entity Address:	43841 90TH ST E
Entity City, State, Zip:	LANCASTER CA 93535
Agent for Service of Process:	MELODY A FARGO
Agent Address:	43841 90TH ST E
Agent City, State, Zip:	LANCASTER CA 93535

* Indicates the information is not contained in the California Secretary of State's database.

- If the status of the corporation is "Surrender," the agent for service of process is automatically revoked. Please refer to California Corporations Code [section 2114](#) for information relating to service upon corporations that have surrendered.
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