

BW - 18

**MONITORING
REPORTS**

DATE:

Yale E Key, Inc.
Hobbs (412) Truckers #2
BW-18

2002	Fresh Water Metered Into Well In Barrels	Brine Produced In Barrels
January	7531	8890
February	4448	2640
March	206	1800
April	6361	2235
May	16454	10735
June	24890	16880
July	18273	18430
August	16688	18117
September	53301	39665
October	broke	9285
November	broke	7630
December	broke	12950
Totals for Year	148152	119392

Note: Totals do not include Oct., Nov., Dec. for metered or produced barrels



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 KEY ENERGY SERVICES
 ATTN: ROYCE CROWELL
 P.O. BOX 2040
 HOBBS, NM 88241
 FAX TO: (505) 393-3848

Receiving Date: 12/19/02
 Reporting Date: 12/26/02
 Project Number: NOT GIVEN
 Project Name: NOT GIVEN
 Project Location: HOBBS TRUCKERS #2

Sampling Date: 12/19/02
 Sample Type: WATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		12/23/02	12/23/02	12/23/02	12/23/02	12/20/02	12/23/02
H7337-1	FRESH	113	75	28	3.15	868	185
H7337-2	BRINE	102807	617	992	2143	149464	145
Quality Control		NR	42	41	4.67	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	84.0	82.0	93.4	93.6	NR
Relative Percent Difference		NR	0.8	1.4	1.0	0.7	NR
METHODS:		SM3500-Ca-D 3500-Mg E			8049	120.1	310.1

	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)	
ANALYSIS DATE:		12/23/02	12/23/02	12/23/02	12/23/02	12/20/02	12/26/02
H7337-1	FRESH	156	142	0	226	7.39	619
H7337-2	BRINE	159950	6175	0	177	6.73	275140
Quality Control		1000	50.20	NR	1068	6.73	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		100.0	100	NR	107	96.1	NR
Relative Percent Difference		3.0	0.7	NR	7.7	0	0.4
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Amy Hill
 Chemist

12-26-02
 Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	F (mg/L)	NO ₃ (mg/L)
ANALYSIS DATE:		12/23/02	12/20/02
H7337-1	FRESH	0.16	3.70
H7337-2	BRINE	0.37	8.20
Quality Control		0.97	2.83
True Value QC		1.00	3.00
% Recovery		97.5	94.2
Relative Percent Difference		2.0	1.0
METHODS: EPA 600/4-79-020		SM4500-FD	353.3

Amy Hill
Chemist

12-26-02
Date

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ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL (BW-018)
 WATER SALES/PURCHASE COMPARISON WORK SHEET

	FRESH WATER PURCHASED GALLONS = BARRELS		BRINE & FRESH BARRELS SOLD	VARIANCE
2001 JANUARY	8560000	203,810	10688	(193,122)
FEBRUARY	3419000	81,405	5680	(75,725)
MARCH	8371000	199,310	6558	(192,752)
APRIL	0	0	0	0
MAY	0	0	0	0
JUNE	0	0	0	0
JULY	0	0	0	0
AUGUST	0	0	0	0
SEPTEMBER	0	0	0	0
OCTOBER	0	0	0	0
NOVEMBER	0	0	0	0
DECEMBER	0	0	0	0
<hr/>				
	20,350,000	484,524	22,926	(461,598)

Please call Renee Gaillardet at 915-570-5721 with questions.

ROWLAND TRUCKING CO., INC.

CARLSBAD - TRUCKERS BRINE WELL (BW-19)
 WATER SALES/PURCHASE COMPARISON WORK SHEET

	PURCHASED		BARRELS	
	GALLONS	= BARRELS	SOLD	VARIANCE
2001 JANUARY	1,384,000	32,952	32755	(197)
FEBRUARY	1,670,000	39,762	37840	(1,922)
MARCH	1,517,000	36,119	28090	(8,029)
APRIL	-	0	0	0
MAY	-	0	0	0
JUNE	-	0	0	0
JULY	-	0	0	0
AUGUST	-	0	0	0
SEPTEMBER	-	0	0	0
OCTOBER	-	0	0	0
NOVEMBER	-	0	0	0
DECEMBER	-	0	0	0
	4,571,000	108,833	98,685	(10,148)

Please contact Renee Gaillardet at 915-570-5721 with questions.

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL (BW-018)
 WATER SALES/PURCHASE COMPARISON WORK SHEET

	FRESH WATER PURCHASED GALLONS = BARRELS		BRINE & FRESH BARRELS SOLD	VARIANCE
2000 JANUARY	742800	17,686	6350	(11,336)
FEBRUARY	766000	18,238	5575	(12,663)
MARCH	755000	17,976	7455	(10,521)
APRIL	9457000	225,167	5807	(219,360)
MAY	8577000	204,214	6030	(198,184)
JUNE	6220000	148,095	6855	(141,240)
JULY	9791000	233,119	10085	(223,034)
AUGUST	9156000	218,000	8835	(209,165)
SEPTEMBER	10413000	247,929	10840	(237,089)
OCTOBER	0	0	0	0
NOVEMBER	0	0	0	0
DECEMBER	0	0	0	0
	55,877,800	1,330,424	67,832	(1,262,592)

Please call Renee Gaillardet at 915-570-5721 with questions.

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL (BW-018)
 WATER SALES/PURCHASE COMPARISON WORK SHEET

	FRESH WATER PURCHASED GALLONS = BARRELS		BRINE & FRESH BARRELS SOLD	VARIANCE
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APRIL	9457000	225,167	5807	(219,360)
MAY	8577000	204,214	6030	(198,184)
JUNE	6220000	148,095	6855	(141,240)
JULY	0	0	0	0
AUGUST	0	0	0	0
SEPTEMBER	0	0	0	0
OCTOBER	0	0	0	0
NOVEMBER	0	0	0	0
DECEMBER	0	0	0	0
	26,517,800	631,376	38,072	(593,304)

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL (BW-018)
 WATER SALES/PURCHASE COMPARISON WORK SHEET

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FEBRUARY	766000	18,238	5575	(12,663)
MARCH	755000	17,976	7455	(10,521)
APRIL	0	0	0	0
MAY	0	0	0	0
JUNE	0	0	0	0
JULY	0	0	0	0
AUGUST	0	0	0	0
SEPTEMBER	0	0	0	0
OCTOBER	0	0	0	0
NOVEMBER	0	0	0	0
DECEMBER	0	0	0	0
	2,263,800	53,900	19,380	(34,520)



Unicem Truckers #2

DP-371

Dec 1988

Well head



Vnicnem Truckers #2 DP-371

Dec. 1988

Well head



Unicheck Trackers #2

DP-371

Dec 1988

Loading Area



Urechem Truckers #2 DP-371

Dec-1988

Spill Collection / Brine Storage



Unichem brine pond, Hobbs
Carlsbad Highway 5/14/84

JWB

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL (BW-013)
 WATER SALES/PURCHASE COMPARISON WORK SHEET

	FRESH WATER PURCHASED GALLONS = BARRELS		BRINE & FRESH BARRELS SOLD	VARIANCE
1999 JANUARY	805900	19,189	6855	(12,333)
FEBRUARY	473000	11,262	3445	(7,817)
MARCH	866700	20,636	2830	(17,806)
APRIL	422600	10,062	2890	(7,172)
MAY	567100	13,502	1553	(11,949)
JUNE	647200	15,410	4915	(10,495)
JULY	0	0	0	0
AUGUST	0	0	0	0
SEPTEMBER	0	0	0	0
OCTOBER	0	0	0	0
NOVEMBER	0	0	0	0
DECEMBER	0	0	0	0
	<hr/>	<hr/>	<hr/>	<hr/>
	3,782,500	90,060	22,488	(67,572)

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE(BW-018)
 WATER SALES/PURCHASE COMPARISON WORK SHEET

	FRESH WATER PURCHASED GALLONS	=	BARRELS	BRINE & FRESH BARRELS SOLD	VARIANCE
1998 JANUARY	519800		12,376	12082	(294)
FEBRUARY	662800		15,781	14212	(1,569)
MARCH	1283500		30,560	24252	(6,308)
APRIL	618300		14,721	8880	(5,841)
MAY	718300		17,102	11190	(5,912)
JUNE	630400		15,010	13165	(1,845)
JULY	578400		13,771	12194	(1,577)
AUGUST	473800		11,281	9242	(2,039)
SEPTEMBER	334600		7,967	6177	(1,790)
OCTOBER	0		0	0	0
NOVEMBER	0		0	0	0
DECEMBER	0		0	0	0
	5,819,900		138,569	111,394	(27,175)

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE(BW-018)
 WATER SALES/PURCHASE COMPARISON WORK SHEET

	FRESH WATER PURCHASED GALLONS	=	BARRELS	BRINE & FRESH BARRELS SOLD	VARIANCE
1998 JANUARY	519800		12,376	12082	(294)
FEBRUARY	662800		15,781	14212	(1,569)
MARCH	1283500		30,560	24252	(6,308)
APRIL	618300		14,721	8880	(5,841)
MAY	718300		17,102	11190	(5,912)
JUNE	630400		15,010	13165	(1,845)
JULY	0		0	0	0
AUGUST	0		0	0	0
SEPTEMBER	0		0	0	0
OCTOBER	0		0	0	0
NOVEMBER	0		0	0	0
DECEMBER	0		0	0	0
	4,433,100		105,550	83,781	(21,769)

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL
 WATER SALES/PURCHASE COMPARISON WORK SHEET

	PURCHASED GALLONS	=	BARRELS	BARRELS SOLD	VARIANCE
1997 JANUARY	12261		292	19184	18,892
FEBRUARY	631100		15,026	13328	(1,698)
MARCH	495400		11,795	7790	(4,005)
APRIL	642600		15,300	10520	(4,780)
MAY	1032200		24,576	13100	(11,476)
JUNE	700000		16,667	10835	(5,832)
JULY	489500		11,655	8995	(2,660)
AUGUST	480600		11,443	8215	(3,228)
SEPTEMBER	546600		13,014	11908	(1,106)
OCTOBER	65600		1,562	14609	13,047
NOVEMBER	586600		13,967	12768	(1,199)
DECEMBER	773200		18,410	17800	(610)
	6,455,661		153,706	149,052	(4,654)

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL
WATER SALES/PURCHASE COMPARISON WORK SHEET

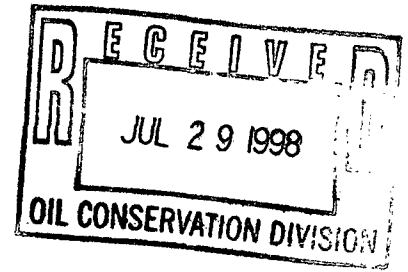
	PURCHASED GALLONS	=	BARRELS	BARRELS SOLD	VARIANCE
1996 JANUARY	450100		10,717	3425	(7,292)
FEBRUARY	514100		12,240	6075	(6,165)
MARCH	585600		13,943	6557	(7,386)
APRIL	941800		22,424	9583	(12,841)
MAY	754600		17,967	13325	(4,642)
JUNE	824600		19,633	13475	(6,158)
JULY	1027600		24,467	8380	(16,087)
AUGUST	449300		10,698	8520	(2,178)
SEPTEMBER	400300		9,531	4521	(5,010)
OCTOBER	386600		9,205	4521	(4,684)
NOVEMBER	558900		13,307	4521	(8,786)
DECEMBER	434900		10,355	4521	(5,834)
	7,328,400		174,486	87,424	(87,062)

ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL
WATER SALES/PURCHASE COMPARISON WORK SHEET

	PURCHASED GALLONS	=	BARRELS	BARRELS SOLD	VARIANCE
1995 JANUARY	429500		10,226	4419	(5,807)
FEBRUARY	47060		1,120	6510	5,390
MARCH	902200		21,481	12429	(9,052)
APRIL	401400		9,557	4867	(4,690)
MAY	545300		12,983	4990	(7,993)
JUNE	589800		14,043	5595	(8,448)
JULY	545600		12,990	7200	(5,790)
AUGUST	573200		13,648	5615	(8,033)
SEPTEMBER	232700		5,540	5291	(249)
OCTOBER	509600		12,133	7935	(4,198)
NOVEMBER	447200		10,648	4515	(6,133)
DECEMBER	451300		10,745	4521	(6,224)
	5,674,860		135,116	73,887	(61,229)

WP



ROWLAND TRUCKING CO., INC.

HOBBS - TRUCKERS II BRINE WELL
WATER SALES/PURCHASE COMPARISON WORK SHEET

	PURCHASED GALLONS	=	BARRELS	BARRELS SOLD	VARIANCE
1994 JANUARY	792500		18,869	4213	(14,656)
FEBRUARY	1078200		25,671	5065	(20,606)
MARCH	993000		23,643	7698	(15,945)
APRIL	596800		14,210	3985	(10,225)
MAY	492800		11,733	1902	(9,831)
JUNE	508400		12,105	4825	(7,280)
JULY	382700		9,112	4092	(5,020)
AUGUST	272300		6,483	3089	(3,394)
SEPTEMBER	285500		6,798	3805	(2,993)
OCTOBER	395800		9,424	6165	(3,259)
NOVEMBER	339900		8,093	3500	(4,593)
DECEMBER	706000		16,810	5525	(11,285)
	6,843,900		162,950	53,864	(109,086)

RECEIVED

TRUCKERS II BRINE STATION
FRESH WATER TO BRINE WATER COMPARISON
FOURTH QUARTER, 1991

FEB 02 1992

1/25/92

OIL CONSERVATION DIV.
SANTA FE

MONTH	FRESH WATER GALLONS PURCHASED	FRESH WATER BARRELS PURCHASED	BRINE WATER SALES BARRELS	FRESH WATER SALES BARRELS
DECEMBER	1603600	38181	27743	8227
NOVEMBER	1439300	34269	21759	7005
OCTOBER	788500	18774	6222	1664
	=====	=====	=====	=====
	3831400	91224	55724	16896



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

WATER ANALYSIS

ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

CLIENT NAME:	ROWLAND TRUCKING	DATE:	1/3/92
FACILITY:	HOBBS	SAMPLE DATE:	1/2/92
LOCATION:	HOBBS, NM	DATE ANALYZED:	1/3/92

SAMPLE IDENTIFICATION :	PIONEER	TRUCKER'S	TRUCKER'S
	BRINE	BRINE	II
	STATION	STATION	

pH		6.26	5.93	6.26
PHENO ALKALINITY	(CaCO3)	NIL	NIL	NIL
TOTAL ALKALINITY	(CaCO3)	68	108	128
BICARBONATE	(HCO3)	83.0	131.8	156.2
CARBONATE	(CO3)	NIL	NIL	NIL
HYDROXIDE	(OH)	NIL	NIL	NIL
TOTAL HARDNESS	(CaCO3)	5100	4300	5600
CALCIUM	(Ca)	1840.0	1560.0	1440.0
CALCIUM	(CaCO3)	4600	3900	3600
MAGNESIUM	(Mg)	120.0	96.0	480.0
MAGNESIUM	(CaCO3)	500	400	2000
CHLORIDE	(Cl)	225500	170000	169000
SULFATE	(SO4)	5100	5000	6625
TOTAL PHOSPHATE	(PO4)	***	***	***
ORTHO PHOSPHATE	(PO4)	***	***	***
POLY PHOSPHATE	(PO4)	***	***	***
SILICA	(SiO2)	25.0	25.0	37.0
SPECIFIC CONDUCTANCE	(mmhos)	***	***	***
IRON	(Fe)	0.70	1.20	0.10
COPPER	(Cu)	0.70	0.40	0.30
CALCULATED :				
TOTAL DISSOLVED SOLIDS		378896	287421	287889
SODIUM	(Na)	146228	110608	110150

ANALYZED BY: Steve S. Moore
(HOBBS LAB)

APPROVED BY: [Signature]

*** INDICATES THAT THIS TEST WAS NOT RUN

UNICHEM INTERNATIONAL INC.



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

W A T E R A N A L Y S I S

ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

CLIENT NAME: ROWLAND TRUCKING
FACILITY: HOBBS
LOCATION: HOBBS, NM

DATE: 1/3/92
SAMPLE DATE: 1/2/92
DATE ANALYZED: 1/3/92

SAMPLE IDENTIFICATION :	PIONEER	TRUCKER'S	TRUCKER'S
	BRINE	BRINE	II
	STATION	STATION	

RESISTIVITY

.04 ohm @ 72 F .04 ohm @ 72 F .04 ohm @ 72 F

*** INDICATES THAT THIS TEST WAS NOT RUN

UNICHEM INTERNATIONAL INC.

ROWLAND TRUCKING COMPANY

A DIVISION OF

UNICHEM INTERNATIONAL, INC.

RECEIVED

PHONE
[505] 393-7751

P.O. BOX 1499
HOBBS, NEW MEXICO 88241

FAX
[505] 393-7751, Ext. 283

OCT 24 1991

OIL CONSERVATION DIV.
SANTA FE

TRUCKERS II BRINE STATION
FRESH WATER TO BRINE WATER COMPARISON
THIRD QUARTER, 1991

10/22/91

MONTH	FRESH WATER GALLONS PURCHASED	FRESH WATER BARRELS PURCHASED	BRINE WATER SALES BARRELS	FRESH WATER SALES BARRELS
APRIL	198700	4731	14035	5009
JUNE	454900	10831	6603	3458
MAY	1551700	36945	5210	2139

=====
2205300

=====
52507

=====
25848

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10606



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

W A T E R A N A L Y S I S

ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

CLIENT NAME: ROWLAND TRUCKING DATE: 10/11/91
 FACILITY: HOBBS SAMPLE DATE: 10/9/91
 LOCATION: HOBBS, NM DATE ANALYZED: 10/10/91

SAMPLE IDENTIFICATION :	PIONEER BRINE WELL	TRUCKER'S #2	CARLSBAD BRINE WELL
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pH		7.19	6.99	6.65
PHEND ALKALINITY	(CaCO3)	NIL	NIL	NIL
TOTAL ALKALINITY	(CaCO3)	76	156	156
BICARBONATE	(HCO3)	92.7	190.3	190.3
CARBONATE	(CO3)	NIL	NIL	NIL
HYDROXIDE	(OH)	NIL	NIL	NIL
TOTAL HARDNESS	(CaCO3)	5232	5184	4120
CALCIUM	(Ca)	1417.6	840.0	1556.8
CALCIUM	(CaCO3)	3544	2100	3892
MAGNESIUM	(Mg)	405.1	740.2	54.7
MAGNESIUM	(CaCO3)	1688	3084	228
CHLORIDE	(Cl)	184000	150400	186400
SULFATE	(SO4)	4900	5190	3525
TOTAL PHOSPHATE	(PO4)	***	***	***
ORTHO PHOSPHATE	(PO4)	***	***	***
POLY PHOSPHATE	(PO4)	***	***	***
SILICA	(SiO2)	79.0	89.0	82.0
SPECIFIC CONDUCTANCE	(mmhos)	136700	115000	119800
IRON	(Fe)	0.20	0.30	0.20
COPPER	(Cu)	1.30	0.50	0.60
CALCULATED :				
TOTAL DISSOLVED SOLIDS		310082	255066	312441
SODIUM	(Na)	119187	97616	120632

ANALYZED BY: Hope S. Morris
 (HOBBS LAB)

APPROVED BY: [Signature]
 UNICHEM INTERNATIONAL INC.

*** INDICATES THAT THIS TEST WAS NOT RUN

TRUCKERS II BRINE STATION
 FRESH WATER TO BRINE WATER COMPARISON
 SECOND QUARTER, 1991

7/15/91

MONTH	FRESH WATER GALLONS PURCHASED	FRESH WATER BARRELS PURCHASED	BRINE WATER SALES BARRELS	FRESH WATER SALES BARRELS
APRIL	198700	4731	14035	5009
JUNE	454900	10831	6603	3458
MAY	1551700	36945	5210	2139
	=====	=====	=====	=====
	2205300	52507	25848	10606



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W A T E R A N A L Y S I S

ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

CLIENT NAME: ROWLAND TRUCKING
 FACILITY: HOBBS
 LOCATION: HOBBS, NM

DATE: 7/11/91
 SAMPLE DATE: 7/11/91
 DATE ANALYZED: 7/11/91

SAMPLE IDENTIFICATION :		TRUCKER'S BRINE CARLSBAD	TRUCKER'S #2 HOBBS	PIONEER BRINE STATION EUNICE
pH		6.91	7.06	7.16
PHENO ALKALINITY	(CaCO3)	NIL	NIL	NIL
TOTAL ALKALINITY	(CaCO3)	108	204	80
BICARBONATE	(HCO3)	131.8	248.9	97.6
CARBONATE	(CO3)	NIL	NIL	NIL
HYDROXIDE	(OH)	NIL	NIL	NIL
TOTAL HARDNESS	(CaCO3)	3200	2000	4300
CALCIUM	(Ca)	1120.0	400.0	1348.8
CALCIUM	(CaCO3)	2800	1000	3372
MAGNESIUM	(Mg)	96.0	240.0	222.7
MAGNESIUM	(CaCO3)	400	1000	928
CHLORIDE	(Cl)	134000	128000	124000
SULFATE	(SO4)	4080	4240	5780
TOTAL PHOSPHATE	(PO4)	***	***	***
ORTHO PHOSPHATE	(PO4)	***	***	***
POLY PHOSPHATE	(PO4)	***	***	***
SILICA	(SiO2)	70.0	115.0	77.0
SPECIFIC CONDUCTANCE	(mmhos)	144200	136100	141100
IRON	(Fe)	0.50	0.20	0.10
COPPER	(Cu)	0.50	0.40	0.50
CALCULATED :				
TOTAL DISSOLVED SOLIDS		226847	217379	212693
SODIUM	(Na)	87350	84135	81166

ANALYZED BY: Upe S. Moreno
 (HOBBS LAB)

APPROVED BY: [Signature]

*** INDICATES THAT THIS TEST WAS NOT RUN

5/06/91

TRUCKERS II BRINE STATIC
FRESH WATER TO BRINE WATER COMPARISON
FIRST QUARTER, 1991

MONTH	FRESH WATER GALLONS PURCHASED	FRESH WATER BARRELS PURCHASED	BRINE WATER SALES BARRELS	FRESH WATER SALES BARRELS
JANUARY	1359700	32374	29296	6156
FEBRUARY	1036300	24674	18390	2708
MARCH	633400	15081	13944	5840

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14704

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W A T E R A N A L Y S I S

ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

CLIENT NAME:	ROWLAND TRUCKING	DATE:	4/30/91
FACILITY:	HOBBS	SAMPLE DATE:	4/26/91
LOCATION:	HOBBS, NM	DATE ANALYZED:	4/29/91

SAMPLE IDENTIFICATION :	PIONEER	TRUCKER'S	ROWLAND
	BRINE	DRIVE BRINE	TRUCKING
	EUNICE	HOBBS	CARLSBAD

		-----	-----	-----
pH		7.20	7.20	6.23
PHENO ALKALINITY	(CaCO3)	NIL	NIL	NIL
TOTAL ALKALINITY	(CaCO3)	84	124	100
BICARBONATE	(HCO3)	102.5	151.3	122.0
CARBONATE	(CO3)	NIL	NIL	NIL
HYDROXIDE	(OH)	NIL	NIL	NIL
TOTAL HARDNESS	(CaCO3)	6300	5600	6500
CALCIUM	(Ca)	1440.0	1120.0	1680.0
CALCIUM	(CaCO3)	3600	2800	4200
MAGNESIUM	(Mg)	648.0	672.0	552.0
MAGNESIUM	(CaCO3)	2700	2800	2300
CHLORIDE	(Cl)	43200	38800	60400
SULFATE	(SO4)	5520	7050	3425
TOTAL PHOSPHATE	(PO4)	***	***	***
ORTHO PHOSPHATE	(PO4)	***	***	***
POLY PHOSPHATE	(PO4)	***	***	***
SILICA	(SiO2)	4.7	28.2	2.3
SPECIFIC CONDUCTANCE	(mmhos)	63800	32600	53500
IRON	(Fe)	0.10	NIL	0.20
COPPER	(Cu)	2.50	1.10	0.80
CALCULATED :				
TOTAL DISSOLVED SOLIDS		78690	73819	104011
SODIUM	(Na)	27774	25997	37830

ANALYZED BY: [Signature]
(HOBBS LAB)

APPROVED BY: [Signature]

*** INDICATES THAT THIS TEST WAS NOT RUN

RUCKERS II BRINE STATION
 FRESH WATER TO BRINE WATER COMPARISON
 1990

1/30/91

MONTH	FRESH WATER GALLONS PURCHASED	FRESH WATER BARRELS PURCHASED	BRINE WATER SALES BARRELS	FRESH WATER SALES BARRELS
JANUARY	710000	16905	15815	4019
FEBRUARY	988800	23543	16975	4296
MARCH	612400	14581	11943	4375
APRIL	975800	23233	24438	5243
MAY	759500	18083	3385	5345
JUNE	1078800	25686	6622	874
JULY	417600	9943	8777	3270
AUGUST	786600	18729	9895	2048
SEPTEMBER	881500	20988	17197	1083
OCTOBER	432000	10286	5554	1966
NOVEMBER	929300	22126	9490	6139
DECEMBER	1382100	32907	21162	6074
	=====	=====	=====	=====
	9954400	237010	151253	44732



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W A T E R A N A L Y S I S

ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

CLIENT NAME:	ROWLAND TRUCKING	DATE:	1/30/91
FACILITY:	HOBBS	SAMPLE DATE:	1/28/91
LOCATION:	HOBBS, NEW MEXICO	DATE ANALYZED:	1/29/91

SAMPLE IDENTIFICATION :		PIONEER BRINE	TRUCKERS II	TRUCKERS BRINE CARLSBAD
pH		5.89	7.60	7.02
PHENO ALKALINITY	(CaCO3)	NIL	NIL	NIL
TOTAL ALKALINITY	(CaCO3)	60	120	140
BICARBONATE	(HCO3)	73.2	146.4	170.8
CARBONATE	(CO3)	NIL	NIL	NIL
HYDROXIDE	(OH)	NIL	NIL	NIL
TOTAL HARDNESS	(CaCO3)	4000	3600	3800
CALCIUM	(Ca)	1040.0	800.0	1000.0
CALCIUM	(CaCO3)	2600	2000	2500
MAGNESIUM	(Mg)	336.0	384.0	312.0
MAGNESIUM	(CaCO3)	1400	1600	1300
CHLORIDE	(Cl)	172000	15600	154000
SULFATE	(SO4)	1410	1925	1225
TOTAL PHOSPHATE	(PO4)	***	***	***
ORTHO PHOSPHATE	(PO4)	***	***	***
POLY PHOSPHATE	(PO4)	***	***	***
SILICA	(SiO2)	2.3	2.3	2.3
SPECIFIC CONDUCTANCE	(mmhos)	90300	74600	74500
IRON	(Fe)	1.65	0.11	0.11
COPPER	(Cu)	0.80	0.20	4.90
CALCULATED :				
TOTAL DISSOLVED SOLIDS		285161	28286	255388
SODIUM	(Na)	110300	9429	98678

ANALYZED BY: Kathy Klipstein
(HOBBS LAB)

APPROVED BY: Fred Schlosser

*** INDICATES THAT THIS TEST WAS NOT RUN
UNICHEM INTERNATIONAL INC.

10/16/89

TRUCKERS II BRINE STATION
FRESH WATER TO BRINE WATER COMPARISON
THIRD QUARTER, 1989

MONTH	FRESH WATER GALLONS PURCHASED	FRESH WATER BARRELS PURCHASED	BRINE WATER SALES BARRELS	FRESH WATER SALES BARRELS
JULY	697400	16605	13542	5159
AUGUST	623000	14833	6764	2763
SEPTEMBER	491200	11695	7994	3927

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43133

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28300

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11849



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WATER ANALYSIS

ALL RESULTS EXPRESSED IN MG/LUNLESS OTHERWISE NOTED

CLIENT NAME: ROWLAND
FACILITY: UNICHEM
LOCATION:

DATE: 10/10/89
SAMPLE DATE: 10/02/89
DATE ANALYZED: 10/06/89

SAMPLE IDENTIFICATION : TRUCKER 2
HOBBS, NM

Table with 3 columns: Parameter, Unit, Value. Includes pH (6.35), PHEND ALKALINITY (CaCO3) (NIL), TOTAL ALKALINITY (CaCO3) (116), BICARBONATE (HCO3) (141.5), CARBONATE (CO3) (NIL), HYDROXIDE (OH) (NIL), TOTAL HARDNESS (CaCO3) (6010), CALCIUM (Ca) (872.0), CALCIUM (CaCO3) (2180), MAGNESIUM (Mg) (919.2), MAGNESIUM (CaCO3) (3830), CHLORIDE (Cl) (144800), SULFATE (SO4) (3280), TOTAL PHOSPHATE (PO4) (***), ORTHO PHOSPHATE (PO4) (***), POLY PHOSPHATE (PO4) (***), SILICA (SiO2) (25.0), SPECIFIC CONDUCTANCE (mmhos) (116800), IRON (Fe) (2.10), COPPER (Cu) (0.44), CALCULATED : TOTAL DISSOLVED SOLIDS (242712), SODIUM (Na) (92675)

ANALYZED BY: Mitchell Jarvis (HOBBS LAB)

APPROVED BY: [Signature]

*** INDICATES THAT THIS TEST WAS NOT RUN

UCKERS II BRINE STATION
 FRESH WATER TO BRINE WATER COMPARISON
 SECOND QUARTER, 1989

7/14/89

MONTH	FRESH WATER GALLONS PURCHASED	FRESH WATER BARRELS PURCHASED	BRINE WATER SALES BARRELS	FRESH WATER SALES BARRELS
APRIL	878100	20907	8663	8321
MAY	654300	15579	11419	3807
JUNE	1071600	25514	10960	7764

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62000

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31042

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19892



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W A T E R A N A L Y S I S

ALL RESULTS EXPRESSED IN PPM UNLESS OTHERWISE NOTED

CLIENT NAME: Unichem International, Inc.
FACILITY: Truckers II Brine Station
LOCATION: Hobbs, New Mexico

DATE: 07/13/89
SAMPLE DATE: 06/29/89
DATE ANALYZED: 07/11/89

SAMPLE IDENTIFICATION : TRUCKERS #2

pH		7.40
PHEND ALKALINITY	(CaCO3)	NIL
TOTAL ALKALINITY	(CaCO3)	200
BICARBONATE	(HCO3)	244.0
CARBONATE	(CO3)	NIL
HYDROXIDE	(OH)	NIL
TOTAL HARDNESS	(CaCO3)	4600
CALCIUM	(Ca)	1360.0
CALCIUM	(CaCO3)	3400
MAGNESIUM	(Mg)	288.0
MAGNESIUM	(CaCO3)	1200
CHLORIDE	(Cl)	185000
SULFATE	(SO4)	3088
TOTAL PHOSPHATE	(PO4)	***
ORTHO PHOSPHATE	(PO4)	***
POLY PHOSPHATE	(PO4)	***
SILICA	(SiO2)	***
SPECIFIC CONDUCTANCE	(mmhos)	51700
IRON	(Fe)	3.00
COPPER	(Cu)	0.20
CALCULATED :		
TOTAL DISSOLVED SOLIDS		309294
SODIUM	(Na)	119315

ANALYZED BY:

Mitchell Tavin
(HOBBS LAB)

APPROVED BY:

Dyle Branning

*** INDICATES THAT THIS TEST WAS NOT RUN

TRUCKERS II BRINE STATION
 FRESH WATER TO BRINE WATER COMPARISON FOR 1988

2/27/89

MONTH	FRESH WATER GALLONS PURCHASED	FRESH WATER BARRELS PURCHASED	BRINE WATER SALES BARRELS	FRESH WATER SALE BARRELS
JANUARY	1530800	36448	12132	2983
FEBRUARY	1071300	25507	18598	3038
MARCH	1518900	36164	15965	3916
APRIL	913200	21743	24940	3481
MAY	1784300	42483	32824	2508
JUNE	1611800	38376	9242	590
JULY	566500	13488	18110	1196
AUGUST	1043200	24838	11980	605
SEPTEMBER	910400	21676	17324	1251
OCTOBER	1270800	30257	12126	3701
NOVEMBER	850800	20257	22942	1192
DECEMBER	305000	7262	5275	712

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R E C E I V E D
 FEB 28 1989
 GROUND WATER BUREAU

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : ROWLAND TRUCKING

Date : 01-29-1989

Location: Truckers II - Brine - Hobbs (on 1-18-1989)

	<u>Sample 1</u>
Specific Gravity:	1.207
Total Dissolved Solids:	289821
pH:	7.51
IONIC STRENGTH:	5.045

<u>CATIONS:</u>		<u>me/liter</u>	<u>mg/liter</u>
Calcium	(Ca ⁺²)	84.0	1680
Magnesium	(Mg ⁺²)	16.0	194
Sodium	(Na ⁺¹)	4850	112000
 <u>ANIONS:</u>			
Bicarbonate	(HCO ₃ ⁻¹)	2.60	159
Carbonate	(CO ₃ ⁻²)	0	0
Hydroxide	(OH ⁻¹)	0	0
Sulfate	(SO ₄ ⁻²)	68.2	3280
Chloride	(Cl ⁻¹)	4880	173000

SCALING INDEX (positive value indicates scale)

	<u>Temperature</u>	<u>Calcium</u>	<u>Calcium</u>
86 °F	30 °C	<u>Carbonate</u>	<u>Sulfate</u>
		1.8	-22

Key Energy Services, Inc.
TRUCKERS #2 (BW-018)
Injection/Production
2003

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OIL CONSERVATION
DIVISION

MONTH	WATER IN	WATER OUT
1/1/2003	12087	12355
2/1/2003	18419	14240
3/1/2003	21454	18650
4/1/2003	13732	12990
5/1/2003	9826	10305
6/1/2003	10918	9605
7/1/2003	18751	11095
8/1/2003	7496	11860
9/1/2003	12592	10440
10/1/2003	22807	17190
11/1/2003	30492	31255
12/1/2003	13845	12760
TOTAL	192419	172745