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Level IV Data Package

MWH Group 240233

Method: EPA 2540C

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MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91106

TOTAL DISSOLVED SOLIDS (TDS)
SM 2540C

Analysis Start Date: 5/13/08 End: 5/17/08
Analyst: AXA
Reviewed By: 30 May 08
LIMS Check By:
Was QC Criteria Met: Y N
Was CAR Needed: Y N

Oven Temp (180° ± 2°C): Start: 180 C End: 180 C
Oven Mfr: "Precision STM 135" Ser no.: "11AW-8"

Dry Time (hrs): +12

Standards:	True Value	Exp. Date	% Rec
NaCl MW# AXA050707-1	175 mg/L	11/7/08	80 - 114
Na2SO4 MW # AXA080504-2	700 mg/L	11/04/08	80 - 114
NaCl MW# AXA080513-3	10 mg/L	111/13/08	80 - 114

				B		A		C								
Run #	Sample ID	Client Name	Date Collected	Sample Volume (mL)	Crucible Number	Crucible Weight (g)	Crucible + residue 1st wt (g)	Crucible + residue 2nd wt (g)	QC 1	Residue C-A (g)	TDS (mg/L)	pH	EC	** TDS/EC	QC 2	3rd Weighing/Comments
Blk	Blank	N/A	N/A	50	C9	51.4850	51.4850	51.4851		0.0000	ND	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	Q6	72.4607	72.4616	72.4615		0.0009	9	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	3HA	68.1743	68.1752	68.1753		0.0009	9	N/A	N/A	N/A		
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	638	49.8443	49.8525	49.8527		0.0082	164	N/A	N/A	N/A		
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	K	50.4891	50.5231	50.5233		0.0340	680	N/A	N/A	N/A		
1	2805080993	Kerr McGee	5/7/08	50	509	73.1127	73.2440	73.2439		0.1313	2626	7	4000	0.66		
DUP	2805080993	Kerr McGee	5/7/08	50	D9	69.2725	69.4046	69.4045		0.1321	2642	7	4000	0.66		
2	2805080999	Kerr McGee	5/7/08	100	PA	68.5091	68.5090	68.5091		-0.0001	-1	7	2	-0.50	!	SA
3	2805090093	[redacted]	5/7/08	50	Z2	75.0494	75.0750	75.0754		0.0256	512	7	880	0.58		
4	2805090112	Kerr McGee	5/8/08	25	517	73.0733	73.2200	73.2198		0.1467	5868	7	8000	0.73	!	
5	2805090115	Kerr McGee	5/8/08	25	ZH	67.3125	67.4351	67.4348		0.1226	4904	7	5400	0.91	!	
6	2805090116	Kerr McGee	5/8/08	10	J8	73.9142	73.9720	73.9721		0.0578	5780	7	8700	0.66		73.9735
7	2805090117	Kerr McGee	5/8/08	25	PTI	50.2095	50.3021	50.3020		0.0926	3704	7	5000	0.74	!	50.305
8	2805090118	Kerr McGee	5/8/08	25	SX	72.0337	72.1655	72.1657		0.1318	5272	7	6200	0.85	!	72.1728
9	2805090119	Kerr McGee	5/8/08	50	U9	75.2551	75.3036	75.3033		0.0485	970	7	1410	0.69		
10	2805090120	Kerr McGee	5/8/08	50	M7	67.9783	68.0894	68.0890		0.1111	2222	7	3000	0.74	!	
11	2805090121	Kerr McGee	5/8/08	25	4	66.2544	66.3800	66.3802		0.1258	5024	7	6200	0.81	!	
DUP	2805090121	Kerr McGee	5/8/08	25	OJ	50.5696	50.6941	50.6941		0.1245	4980	7	6200	0.80	!	
12	2805090122	Kerr McGee	5/8/08	10	NY	66.8514	66.9330	66.9331		0.0816	8160	7	9120	0.89	!	66.9311
13	2805090123	Kerr McGee	5/8/08	2	6J	71.1801	71.1960	71.1958		0.0159	7950	7	10000	0.80	!	
14	2805090124	Kerr McGee	5/8/08	2	RA	73.4832	73.5132	73.5133		0.0300	15000	7	15100	0.99	!	73.5152
15	2805090132	Kerr McGee	5/8/08	2	Z0	71.6508	71.6775	71.6776		0.0267	13350	7	14120	0.95	!	
16	2805090133	Kerr McGee	5/8/08	2	21	66.3068	66.3373	66.3372		0.0305	15250	7	15000	1.02	!	Rerun
17	2805090134	Kerr McGee	5/8/08	25	BK	69.3309	69.4324	69.4322		0.1015	4060	7	6000	0.68		
18	2805090135	Kerr McGee	5/8/08	25	KC	68.2479	68.3585	68.3580		0.1106	4424	7	6000	0.74	!	
19	2805090136	Kerr McGee	5/8/08	2	50	67.1475	67.1702	67.1702		0.0227	11350	7	12000	0.95	!	Rerun
20	2805090137	Kerr McGee	5/8/08	2	AX1	73.6623	73.6956	73.6958		0.0333	16650	7	17000	0.98	!	Rerun 73.6967

MRL: 10 mg/L
est **EC*(0.55 - 0.7): Expected TDS Value
Min/Max Residue: 0.5 mg - 200 mg

Holding time: 7 day from sampling date
Residues must be within 0.5 mg of each other

Recoveries:
Blank - <0.5 mg
MRL - 50 - 150%
LCS - 80 - 114%
Duplicates - < 10% RPD

Calculation:
$$TDS\ (mg/L) = \frac{[C-A] \times 1{,}000{,}000}{B}$$

$$\%RPD = \frac{|S1-S2| \times 100}{(S1+S2)/2}$$

A = Crucible Wt (g)
B = Sample Vol (mL)
C = Cruicble + residue (g)

S1 = TDS of sample
S2 = TDS of Duplicate

2

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91106

TOTAL DISSOLVED SOLIDS (TDS)
SM 2540C

900

Analysis Start Date: 5/13/08 End: 5/17/08
Analyst: [illegible]
Reviewed By:
LIMS Check By:
Was QC Criteria Met: (Y) N
Was QIR Needed: Y (N)

Oven Temp (180° ± 2°C): Start: 180 C End: 180 C
Oven Mfr: "Precision STM 135" Ser no.: "11AW-6"
Dry Time (hrs): +12

Standards: True Value Exp. Date
NaCl MW# [illegible] 175 mg/L 11/7/08
Na2SO4 MW # [illegible] 700 mg/L 11/4/08
NaCl MW# [illegible] 10 mg/L 11/23/08

Run #	Sample ID	Client Name	Date Collected	B Sample Volume (mL)	Crucible Number	A Crucible Weight (g)	C Crucible + residue 1st wt (g)	Crucible + residue 2nd wt (g)	Residue C-A (g)	pH	EC	3rd Weighing/Comments
Blk	Blank	N/A	N/A	50	C9	51.4850	51.4850	51.4851	0.0000	N/A	N/A	
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	Q6	72.4607	72.4616	72.4615	0.0009	N/A	N/A	
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	3HA	68.1743	68.1752	68.1753	0.0009	N/A	N/A	
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	63F	49.8443	49.8525	49.8527	0.0082	N/A	N/A	
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	K	50.4891	50.5231	50.5233	0.0340	N/A	N/A	
1	1805080993	Kerr McGee	5/7/08	50	609	73.1127	73.2440	73.2439	0.1313	7	4000	73.2431
DUP	993			50	09	69.2725	69.4046	69.4045	0.1321		4000	
2	999			100	PA	68.5091	68.5090	68.5091	-0.0001		2	
3	1805090093	[illegible]		50	72	75.0494	75.0750	75.0754	0.0256		880	
4	112	Kerr McGee	5/8/08	25	517	73.0733	73.2200	73.2198	0.1467		8000	
5	115			25	ZH	67.3125	67.4351	67.4348	0.1226		5400	
6	116			10	T8	73.9142	73.9735	73.9721	0.0578		8700	⌀ 73.9720
7	117			25	PT1	50.2095	50.3050	50.3020	0.0926		5000	⌀ 50.3021
8	118			25	SX	72.0337	72.1728	72.1657	0.1318		6200	⌀ 72.1655
9	119			50	U9	75.2551	75.3036	75.3033	0.0485		1410	
10	120			50	M7	67.9783	68.0894	68.0890	0.1111		3000	
11	121			25	4	66.2544	66.3800	66.3802	0.1256		6200	
DUP	121			25	OJ	50.5696	50.6941	50.6941	0.1245		6200	
12	122			10	NY	66.8514	66.9311	66.9331	0.0816		9120	⌀ 66.9330
13	123			~~20~~ 2	6J	71.1801	71.1960	71.1958	0.0159		10000	
14	124			2	RA	73.4832	73.5152	73.5133	0.0300		15100	⌀ 73.5132
15	132			2	ZD	71.6508	71.6775	71.6776	0.0267		14110	
16	133			2	21	66.3068	66.3373	66.3372	0.0305		15000	
17	134			25	8K	69.3309	69.4324	69.4322	0.1015		6000	
18	135			25	KC	68.2479	68.3585	68.3580	0.1106		6000	
19	136			2	50	67.1475	67.1702	67.1702	0.0227		12000	
20	137			2	AX1	73.6623	73.6967	73.6956	0.0333		17000	⌀ 73.6956

3

MRL: 10 mg/L
(s) **EC*(0.55 - 0.7) Expected TDS Value
Min/Max Residue: 0.5 mg - 200 mg

Holding time: 7 day from sampling date
Residues must be within 0.5 mg of each other

Recoveries:
Blank - <0.5 mg
MRL - 50 - 150%
LCS - 80 - 114%
Duplicates - < 10% RPD

Calculation:

$$TDS\ (mg/L) = \frac{[C-A]}{B} \times 1,000,000$$

$$\%RPD = \frac{|S1-S2|}{(S1+S2)/2} \times 100$$

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91106

TOTAL DISSOLVED SOLIDS (TDS)
SM 2540C

8:00
Analysis Start Date: 5/13/08 End: 5/19/08
Analyst: AXA
Reviewed By: 30 May 08
LIMS Check By:
Was QC Criteria Met: Y N
Was QIR Needed: Y N

Oven Temp (180° ± 2°C): Start: 180 C End: 180 C
Oven Mfr: "Precision STM 135" Ser no.: "11AW-6"

Dry Time (hrs): +12

See RAW DATA 6/4/08

Standards:		True Value Exp. Date	% Rec
NaCl MW#	AXA050717-1	175 mg/L 11/17/08	80 - 114
Na2SO4 MW#	AXA080515-2	700 mg/L 11/15/08	80 - 114
NaCl MW#	AXA080517-3	10 mg/L 11/17/08	80 - 114

				B		A	C									
Run #	Sample ID	Client Name	Date Collected	Sample Volume (mL)	Crucible Number	Crucible Weight (g)	Crucible + residue 1st wt (g)	Crucible + residue 2nd wt (g)	QC 1	Residue C-A (g)	TDS (mg/L)	pH	EC	** TDS/EC	QC 2	3rd Weighing/Comments
Blk	Blank	N/A	N/A	50	B	50.5654	50.5656	50.5656		0.0002	4	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	4AX	68.4961	68.4972	68.4969		0.0011	11	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	EJ	73.6444	73.6454	73.6455		0.0010	10	N/A	N/A	N/A		
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	EZ	73.1796	73.1872	73.3187		0.0076	152	N/A	N/A	N/A		
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	HI	67.1417	67.1751	67.1753		0.0334	668	N/A	N/A	N/A		
1	2805090138	KERR MCGEE	5/8/08	50	C2	50.7189	50.8796	50.8795		0.1607	3214	7	4000	0.80	!	
DUP	2805090138	KERR MCGEE	5/8/08	50	M	71.6114	71.7727	71.7730		0.1613	3226	7	4000	0.81	!	
2	2805090152	KERR MCGEE	5/8/08	2	V3	76.3300	76.3516	76.3514		0.0216	10800	7	16000	0.68		76.3535
3	2805090157	KERR MCGEE	5/8/08	2	41	72.5367	72.5571	72.5567		0.0184	9200	7	14000	0.66		
4	2805090170	[redacted]	5/8/08	50	CR	68.0205	68.0426	68.0425		0.0221	442	7	710	0.62		
5	2805090171	KERR MCGEE	5/8/08	25	EGI	74.9096	74.9816	74.9812		0.0720	2880	7	5000	0.58		
6	2805090173	KERR MCGEE	5/8/08	25	444	74.3078	74.3927	74.3925		0.0849	3396	7	5130	0.66		
7	2805090174	KERR MCGEE	5/8/08	50	74	56.5162	56.6858	56.6855		0.1696	3392	7	4000	0.85	!	
8	2805090175	KERR MCGEE	5/8/08	50	77	50.1945	50.2893	50.2893		0.0948	1896	7	3000	0.63		
9	2805090176	KERR MCGEE	5/8/08	50	ZOO	50.3286	50.4230	50.4234		0.0944	1888	7	3000	0.63		50.4242
10	2805090177	KERR MCGEE	5/8/08	50	FL	52.5148	52.6446	52.6448		0.1298	2596	7	4000	0.65		
11	2805090178	KERR MCGEE	5/8/08	25	TD	70.7016	70.8460	70.8460		0.1444	5776	7	8000	0.72	!	
DUP	2805090178	KERR MCGEE	5/8/08	25	10	71.1268	71.2718	71.2718		0.1450	5800	7	8000	0.72	!	
12	2805090179	KERR MCGEE	5/8/08	50	DIF	66.7834	66.9550	66.9552		0.1716	3432	7	4000	0.86	!	
13	2805090180	KERR MCGEE	5/8/08	25	BDL	73.4009	73.5065	73.5067		0.1056	4224	7	5200	0.81	!	
14	2805090130	KERR MCGEE	5/8/08	25	TJ	50.6366	50.7520	50.7521		0.1154	4616	7	7000	0.66		
15	2805090182	KERR MCGEE	5/8/08	25	515	75.3448	75.4938	75.4940		0.1490	5960	7	8500	0.70	!	
16	2805090187	KERR MCGEE	5/8/08	50	15	79.2849	79.3259	79.3262		0.0410	820	7	1600	0.51	!	
17	2805090208	[redacted]	5/9/08	50	AI	66.8034	66.8205	66.8200		0.0171	342	7	550	0.62		
18	2805090232	KERR MCGEE	5/8/08	50	Z4	70.9080	70.9604	70.9608		0.1524	3048	7	4000	0.76	!	
19	2805100128	KERR MCGEE	5/9/08	10	518	73.5303	73.5822	73.5818		0.0519	5190	7	9000	0.58		
20	2805100129	KERR MCGEE	5/9/08	25	C	50.8923	51.0383	51.0382		0.1460	5840	7	8000	0.73	!	

MRL: 10 mg/L
est **EC*(0.55 - 0.7): Expected TDS Value
Min/Max Residue: 0.5 mg - 200 mg

Holding time: 7 day from sampling date
Residues must be within 0.5 mg of each other

Recoveries:
Blank - <0.5 mg
MRL - 50 - 150%
LCS - 80 - 114%
Duplicates - < 10% RPD

Calculation:

$$\%RPD = \frac{|S1-S2|}{(S1+S2)/2} \times 100$$

A = Crucible Wt (g)
B = Sample Vol (mL)
C = Cruicble + residue (g)

S1 = TDS of sample
S2 = TDS of Duplicate

8:00

Analyst Start Date: 5/13/08 End: 5/19/08
Analyst: [illegible]
Reviewed By: ________
LIMS Check By: ________
Was QC Criteria Met: Y N
Was QIR Needed: Y N

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91106

TOTAL DISSOLVED SOLIDS (TDS)
SM 2540C

Oven Temp (180° ± 2°C) Start: 180 C End: 180 C
Oven Mfr: "Precision STM 135" Ser no.: "11AW-6"
Dry Time (hrs): +12

Standards: | | True Value | Exp. Date
NaCl MW# 9680805D7-1 | 175 mg/L | 4/7/08
Na2SO4 MW# 9X080CH4 | 700 mg/L | 4/14/08
NaCl MW# 9<080513-3 | 10 mg/L | 4/13/08

Run #	Sample ID	Client Name	Date Collected	B Sample Volume (mL)	Crucible Number	A Crucible Weight (g)	C Crucible + residue 1st wt (g)	Crucible + residue 2nd wt (g)	Residue C-A (g)	pH	EC	3rd Weighing/Comments
Blk	Blank	N/A	N/A	50	B	50.5654	50.5656	50.5656	0.0002	N/A	N/A	
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	4AX	68.4961	68.4972	68.4969	0.0011	N/A	N/A	
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	EJ	73.6444	73.6454	73.6455	0.0010	N/A	N/A	
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	E2	73.1796	73.1872	73.1873	0.0076	N/A	N/A	
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	41	67.1417	67.1751	67.1753	0.0334	N/A	N/A	
1	2805090138	Kerr McGee	5/15/08	50	C2	50.7189	50.8796	50.8795	0.1607	7	4000	
DUP	138			50	M	71.6114	71.7727	71.7730	0.1613		4000	
2	152			2	K3	76.3300	76.3535	76.3514	0.0216		16000	• 76.3516
3	157			2	41	72.5387	72.5571	72.5567	0.0184		14800	
4	170	[redacted]		50	CR	68.0205	68.0426	68.0425	0.0221		710	
5	171	Kerr McGee		25	EE1	74.9096	74.9816	74.9812	0.0720		5000	
6	173			25	444	74.3078	74.3927	74.3925	0.0849		5130	
7	174			50	74	56.5162	56.6858	56.6855	0.1696		4000	
8	175			50	77	50.1945	50.2893	50.2892	0.0948		3000	
9	176			50	200	50.3286	50.4242	50.4234	0.0944		3000	• 50.4230
10	177			50	FL	52.5148	52.6446	52.6445	0.1298		4000	
11	178			25	TD	70.7016	70.8460	70.8456	0.1444		8000	
DUP	178			25	10	71.1268	71.2718	71.2716	0.1450		8200	
12	179			50	D1F	66.7834	66.9550	66.9552	0.1716		4000	
13	180			25	R0L	73.4009	73.5065	73.5067	0.1056		5200	
14	5100 130			25	TJ	50.6366	50.7520	50.7521	0.1154		7000	
15	182			25	515	75.3448	75.4938	75.4940	0.1490		8500	
16	187			50	15	79.2849	79.3259	79.3262	0.0410		1600	
17	208	[redacted] dc	5/9/08	50	AI	66.8034	66.8205	66.8200	0.0171		550	
18	232	Kerr McGee	5/8/08	50	Z4	70.8080	70.9604	70.9608	0.1524		4000	
19	2805100128		5/9/08	10	519	73.5303	73.5822	73.5818	0.0519		9000	
20	129			25	C	50.8923	51.0383	51.0382	0.1460		8000	

MRL: 10 mg/L
**EC*(0.55 - 0.7). Expected TDS Value
Min/Max Residue: 0.5 mg - 200 mg

Holding time: 7 day from sampling date
Residues must be within 0.5 mg of each other

Recoveries:
Blank - <0.5 mg
MRL - 50 - 150%
LCS - 80 - 114%
Duplicates - < 10% RPD

Calculation:
TDS (mg/L) = (C-A)/B x 1,000,000

%RPD = |S1-S2| / ((S1+S2)/2) x 100

5

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91106

TOTAL DISSOLVED SOLIDS (TDS)
SM 2540C

12:00
Analysis Start Date: 6/4/08 End: 6/6/08
Analyst: AXA
Reviewed By:
LIMS Check By:
Was QC Criteria Met:
Was QIR Needed:

Oven Temp (180° ± 2°C): Start: 180 C End: 180 C
Oven Mfr: "Precision STM 135" Ser no.: "11AW-8"

Dry Time (hrs): +12

Standards:

	True Value	Exp. Date	% Rec
NaCl MW# AXA080530-1	175 mg/L	11/30/08	80 - 114
Na2SO4 MW # AXA080530-2	700 mg/L	11/30/08	80 - 114
NaCl MW# AXA080603-3	10 mg/L	12/03/08	80 - 114

Run #	Sample ID	Client Name	Date Collected	B Sample Volume (mL)	Crucible Number	A Crucible Weight (g)	C Crucible + residue 1st wt (g)	Crucible + residue 2nd wt (g)	QC 1	Residue C-A (g)	TDS (mg/L)	pH	EC	** TDS/EC	QC 2	3rd Weighing/Comments
Blk	Blank	N/A	N/A	50	21	53.3341	53.3339	53.3339		-0.0002	-4	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	A	68.7758	68.7767	68.7769		0.0009	9	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	LE0	79.5097	79.5106	79.5106		0.0009	9	N/A	N/A	N/A		
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	LY	68.0196	68.0263	68.0264		0.0067	134	N/A	N/A	N/A		76%
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	X	50.7927	50.8255	50.8255		0.0328	656	N/A	N/A	N/A		
1	2805090124	KERR MC GEE	5/8/08	2	515	75.3433	75.3669	75.3671		0.0236	11800	7	15100	0.78	!	TPR / TDS
DUP	2805090124	KERR MC GEE	5/8/08	2	N4	70.0930	70.1165	70.1167		0.0235	11750	7	15100	0.78	!	↓
2	2805090133	KERR MC GEE	5/8/08	2	E	73.1760	73.1950	73.1954		0.0190	9500	7	15000	0.63		TDR
3	2805140117	KERR MC GEE	5/13/08	25	F4	78.5103	78.6980	78.6981		0.1877	7508	7	8870	0.85	!	TPR
4	2805140128	KERR MC GEE	5/13/08	2	V8	67.5417	67.5676	67.5678		0.0259	12950	7	17230	0.75	!	↓
5	2805140129	KERR MC GEE	5/13/08	2	501	71.6907	71.7182	71.7180		0.0275	13750	7	16460	0.84	!	↓
6	2805140133	KERR MC GEE	5/13/08	2	YLM	74.0966	74.1188	74.1189		0.0222	11100	7	13510	0.82	!	↓
7	2806030525	CMPL	6/3/08	100	H19	74.5095	74.5098	74.5097		0.0003	3	7	4	0.75	!	↓
8	2806030541	CMPL	6/3/08	50	VA	71.0656	71.0692	71.0694		0.0038	72	7	115	0.63		
9	2806030543	BURBANK	6/3/08	50	10	71.1194	71.1411	71.1412		0.0217	434	7	710	0.61		
10	2806030545	CMPL	6/3/08	50	510	72.8718	72.8790	72.8793		0.0072	144	7	250	0.58		
11	2806030603	RIVERSIDE	6/3/08	50	21	66.3040	66.3219	66.3220		0.0179	358	7	600	0.60		
DUP	2806030603	RIVERSIDE	6/3/08	50	RW	72.2100	72.2269	72.2267		0.0169	338	7	600	0.56		
12											#DIV/0!	7		#DIV/0!	#	
13											#DIV/0!	7		#DIV/0!	#	
14											#DIV/0!	7		#DIV/0!	#	
15											#DIV/0!	7		#DIV/0!	#	
16	2806030713	ADOBESPR	6/2/08	50	2R	72.3320	72.3534	72.3535		0.0214	428	7	720	0.59		
17	2806030780	LUNDEWH	6/2/08	50	ZH	67.2830	67.2967	67.2965		0.0137	274	7	480	0.57		
18	2806030861	MAGIC LABS	5/28/08	50	528	74.7606	74.7637	74.7636		0.0031	62	7	120	0.52	!	
19	2806030741	KERR MC GEE	6/2/08	50	503	75.1114	75.1430	75.1427		0.0316	632	7	1050	0.60		
20	2805300103	RIVERSIDE	5/30/08	50		74.2978	74.3156	74.3154		0.0178	356	7	580	0.61		

9

MRL: 10 mg/L
est **EC*(0.55 - 0.7): Expected TDS Value
Min/Max Residue: 0.5 mg - 200 mg

Holding time: 7 day from sampling date
Residues must be within 0.5 mg of each other

Recoveries:
Blank - <0.5 mg
MRL - 50 - 150%
LCS - 80 - 114%
Duplicates - < 10% RPD

Calculation:

$$TDS\ (mg/L) = \frac{[C-A] \times 1{,}000{,}000}{B}$$

$$\%RPD = \frac{|S1-S2| \times 100}{(S1+S2)/2}$$

A = Crucible Wt (g)
B = Sample Vol (mL)
C = Cruicble + residue (g)

S1 = TDS of sample
S2 = TDS of Duplicate

*12:00

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3829

TOTAL DISSOLVED SOLIDS (TDS) MW SOP REVISION 6
SM2540C

WA 6/5/08

Analysis start date: 6/4/08 End: 6/6/08
Analyst: AKA
Reviewed By: YP 6/06/08
LIMS Check By:
Was QC Criteria Met: (Y) N
Was QIR Needed: Y (N) AK 6/6/08

Oven Temp (180°±2°C): Start 180 C End: 180 C
Oven Mfr: "Precision STM135" Ser no.: "11AW-6"

Dry Time (hrs): 12

Standards:	True Value	Exp. Date	% Rec.
NaCl MW#aaa080530-1	175 mg/L	11/30/08	85-115
Na2SO4 MW#aaa080530-2	700 mg/L	11/30/08	85-115
NaCl MW#aaa080603-3	10 mg/L	12/3/08	50-150

Run #	Sample ID	Client Name	Date Collected	B Sample Volume (ml)	Crucible Number	A Crucible Weight (g)	C Crucible + residue 1st wt. (g)	Crucible + residue 2nd wt. (g)	Residue B-A (g)	TDS (mg/L)	pH	EC	EC*0.6	2nd Weighing/Comments
Blk	Blank	N/A	N/A	50	21	53.3341	53.3339	53.3339	-0.0002	-4	N/A	N/A	N/A	
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	A	68.7758	68.7767	68.7769	0.0009	9	N/A	N/A	N/A	
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	LED	79.5097	79.5106	79.5106	0.0009	9	N/A	N/A	N/A	
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	LY	68.0196	68.0243	68.0264	0.0067	134	N/A	N/A	N/A	
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	X	50.7927	50.8265	50.8255	0.0328	656	N/A	N/A	N/A	
1	2805090124	Kerr McBee	5-8-08	2	515	75.3433	75.3669	75.3671	0.0236	11800	7	15100	9060	
Dup	124				N4	70.0930	70.1165	70.1167	0.0235	11750		15100	9060	
2	133				6	73.1760	73.1950	73.1954	0.0190	9500		15000	9000	
3	2805140117		5-13-08	25	F4	78.5103	78.6980	78.6981	0.1877	7508		8870	5322	
4	128			2	V8	67.5417	67.5676	67.5676	0.0259	12950		17230	10338	
5	129				501	71.6907	71.7182	71.7180	0.0275	13750		16460	9876	
6	2805140133				YLM	74.0966	74.1188	74.1189	0.0222	11100		13510	8106	
7	2806030525	CMPL	6-3-08	100	H19	74.5095	74.5098	74.5097	0.0003	3		4	2.4	
8	541			50	V9	71.0656	71.0692	71.0694	0.0036	72		115	69	
9	543	Burbank			10	71.1194	71.1411	71.1412	0.0217	434		710	426	
10	546	CMPL			510	72.6718	72.6790	72.6793	0.0072	144		250	150	
11	603	Riverside			21	66.3040	66.3219	66.3220	0.0179	358		600	360	
Dp	603				RW	72.2100	72.2269	72.2267	0.0169	338		600	360	
12	~~604~~	~~Kerr McGee~~			~~509~~	~~75.5059~~						720	Could not find	
13	~~607~~				~~28~~	~~66.4442~~						1	Could not find	
14	~~608~~	~~Riverside~~			~~B~~	~~74.7082~~							Not Login for TDS	
15	~~609~~				~~B19~~	~~54.5944~~							Not Login for TDS	
16	713	ADDBESPR	6-2-08	50	2R	72.3320	72.3534	72.3535	0.0214	~~0.0214~~		720	432	428
17	780	LINDE NH			ZH	67.2830	67.2967	67.2965	0.0137	~~0.0137~~		480	288	274
18	861	Magiclabs	5-28-08		528	74.7606	74.7637	74.7636	0.0031	~~0.0031~~		120	72	62
19	741	Kerr McGee	6-2-08		503	75.1114	75.1430	75.1427	0.0316	~~0.0316~~		1050	630	632
20	2805730 103	Riverside	5-30-08		—	74.2978	74.3156	74.3154	0.0178	~~0.0178~~		580	348	356

MRL: 10 mg/L
EC*(0.55 - 0.7): expected TDS value
Min/Max Residue: 0.5mg - 200 mg

Holding time: 7 day from sampling date

Drying Efficiency: < 4% or 0.5 mg

% change = |Init - Fin| / Init * 100

Recoveries:
Blank - < 0.5mg
MRL - 50%-150%
LCS - 80%-114%
Duplicates - <10% RPD

Calculation:
TDS (mg/L) = [C-A] / B * 1,000,000

%RPD = |S1-S2| / ((S1+S2)/2) * 100

A = Crucible wt (g)
B = Sample Vol (ml)
C = Crucible+residue (g)

S1 = TDS of sample
S2 = TDS of duplicate

Received by Supervisor on 06-jun-2008
QIR initiated by: axa

QUALITY INVESTIGATION REPORT **QIR No.:** WETL_243336

Analysis date: 060408
Analyst: axa
Method reference: E160.1-SM2
Analytical instrument: INOT1
Extraction Date: 060308
Prepared By: axa

Group	Sample#	Sample ID	Customer	QC Ref	Test	PM
242813	2806030525	029-097 DIS FP MUN S	CMPL-029-NST	430804	TDS	ADE
242816	2806030541	029-096 DRK FP MUN S	CMPL-029-NST	430804	TDS	ADE
242819	2806030546	029-099 SPG FP ARROW	CMPL-029-NST	430804	TDS	ADE
242866	2806030741	STABILIZED WATER	KERRMCGEE-MP	430804	TDS	ADE
242560	2805300103	19498:7TH AND CHICAG	RIVERSIDE	430804	TDS	DEB
242836	2806030603	19498:7TH AND CHICAG	RIVERSIDE	430804	TDS	DEB
242856	2806030713	RAW SOURCE WATER	ADOBESPR	430804	TDS	MAG
242888	2806030861	832201 comment	MAGICLABS	430804	TDS	TDFA
242818	2806030543	1B52D:TK-601B INFLUE	BURBANK-BOU	430804	TDS	YOM
242874	2806030780	SOURCE ANNUAL	LUNDE-WH	430804	TDS	YOM

Brief Description: (include reason for non-compliance-Root Cause)

The LCS was below the acceptance limit of 80%, the result was 76%.

(L2), results may be biased low.

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91106

TOTAL DISSOLVED SOLIDS (TDS)
SM 2540C

15:00
Analysis Start Date: 6/5/08 End: 6/10/08
Analyst: AXA
Reviewed By:
LIMS Check By:
Was QC Criteria Met: Y N
Was QR Needed: Y N

6/12/08

Oven Temp (180° ± 2°C): Start: 180 C End: 180 C
Oven Mfr: "Precision STM 135" Ser no.: "11AW-8"

Dry Time (hrs): +12

Standards:

	True Value	Exp. Date	% Rec
NaCl MW# AXA080530-1	175 mg/L	11/30/08	80 - 114
Na2SO4 MW # AXA080530-2	700 mg/L	11/30/08	80 - 114
NaCl MW# AXA080603-3	10 mg/L	12/03/08	80 - 114

Run #	Sample ID	Client Name	Date Collected	B Sample Volume (mL)	Crucible Number	A Crucible Weight (g)	C Crucible + residue 1st wt (g)	Crucible + residue 2nd wt (g)	QC 1	Residue C-A (g)	TDS (mg/L)	pH	EC	** TDS/EC	QC 2	3rd Weighing/Comments
Blk	Blank	N/A	N/A	50		50.5470	50.5469	50.5470		-0.0001	-2	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	R4	73.7856	73.7864	73.7863		0.0008	8	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	OO	71.0183	71.0195	71.0192		0.0012	12	N/A	N/A	N/A		
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	L	65.8495	65.8574	65.8573		0.0079	158	N/A	N/A	N/A		
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	IS	69.5220	69.5560	69.5558		0.0340	680	N/A	N/A	N/A		
1	2806040748	[redacted]	6/4/08	50	OO	75.8064	75.8149	75.8147		0.0065	130	7	280	0.46	!	
DUP	2806040748	[redacted]	6/4/08	50	22	67.2478	67.2544	67.2543		0.0066	132	7	280	0.47	!	
2	2806040749	[redacted]	6/4/08	50	UG	72.7074	72.7150	72.7149		0.0076	152	7	280	0.54	!	
3	2806040750	[redacted]	6/4/08	50	IS	71.8945	71.9029	71.9028		0.0084	168	7	280	0.60		
4	2806040794	[redacted]	6/4/08	100	509	75.3051	75.3053	75.3054		0.0002	2	7	5	0.40	!	n/a
5	2806040678	[redacted]	6/4/08	50	BM	54.5965	54.6225	54.6221		0.0260	520	7	850	0.61		
6	2806030604	KERR MCGEE	6/2/08	2	BM	74.7072	74.7198	74.7195		0.0126	6300	7	8000	0.79	!	
7	2806030607	KERR MCGEE	6/2/08	2	BO	76.3509	76.3638	76.3640		0.0129	6450	7	8000	0.81	!	
8	2806050052	[redacted]	5/25/08	50	28	66.9415	66.9603	66.9600		0.0188	376	7	685	0.55		
9											#DIV/0!	7		#DIV/0!	#	
10											#DIV/0!	7		#DIV/0!	#	
11											#DIV/0!	7		#DIV/0!	#	
DUP											#DIV/0!	7		#DIV/0!	#	
12											#DIV/0!	7		#DIV/0!	#	
13											#DIV/0!	7		#DIV/0!	#	
14											#DIV/0!	7		#DIV/0!	#	
15											#DIV/0!	7		#DIV/0!	#	
16											#DIV/0!	7		#DIV/0!	#	
17											#DIV/0!	7		#DIV/0!	#	
18											#DIV/0!	7		#DIV/0!	#	
19											#DIV/0!	7		#DIV/0!	#	
20											#DIV/0!	7		#DIV/0!	#	

MRL: 10 mg/L
**EC*(0.55 - 0.7): Expected TDS Value
Min/Max Residue: 0.5 mg - 200 mg

Holding time: 7 day from sampling date
Residues must be within 0.5 mg of each other

Recoveries:
Blank - <0.5 mg
MRL - 50 - 150%
LCS - 80 - 114%
Duplicates - < 10% RPD

Calculation:

$$TDS\ (mg/L) = \frac{[C-A] \times 1{,}000{,}000}{B}$$

$$\%RPD = \frac{|S1-S2| \times 100}{(S1+S2)/2}$$

A = Crucible Wt (g)
B = Sample Vol (mL)
C = Crucible + residue (g)

S1 = TDS of sample
S2 = TDS of Duplicate

15:00

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

TOTAL DISSOLVED SOLIDS (TDS) MW SOP REVISION 6
SM2540C

WBY 6/5/08

Analysis start date: 6/5/08 End: 6/10/08
Analyst: AJ
Reviewed By: YT 06/11/08
LIMS Check By:
Was QC Criteria Met: (Y) N
Was QIR Needed: Y (N)

Oven Temp (180°±2°C): Start 180 C End: 180 C
Oven Mfr: "Precision STM135" Ser no.: "11AW-6"

Dry Time (hrs): +12

Standards:

Standard		True Value	Exp. Date	% Rec.
NaCl MW#aa080530 –	1	175 mg/L	11/30/08	85-115
Na2SO4 MW#aa0805 –	2	700 mg/L	6/30/08	85-115
NaCl MW#aa080603 –	3	10 mg/L	12/3/08	50-150

Run #	Sample ID	Client Name	Date Collected	B Sample Volume (ml)	Crucible Number	A Crucible Weight (g)	C Crucible + residue 1st wt. (g)	Crucible + residue 2nd wt. (g)	Residue B-A (g)	TDS (mg/L)	pH	EC	EC*0.6	2nd Weighing/Comments
Blk	Blank	N/A	N/A	50	—	50.5470	50.5469	50.5470	-0.0001	1	N/A	N/A	N/A	
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	RH	73.7656	73.7664	73.7663	0.0008	8	N/A	N/A	N/A	
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	OO	71.0183	71.0195	71.0192	0.0010	12	N/A	N/A	N/A	
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	L	65.8495	65.8574	65.8573	0.0079	158	N/A	N/A	N/A	
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	13	69.5220	69.5560	69.5558	0.0340	680	N/A	N/A	N/A	
1	2806040748	[redacted]	6-4-08	50	O	75.8084	75.8149	75.8147	0.0065	130	7	280	168	
Dup	748				22	67.2478	67.2544	67.2543	0.0066	132		280	168	
2	749				UK	72.7074	72.7150	72.7149	0.0076	152		280	168	
3	750				1	71.8945	71.9029	71.9029	0.0084	168		280	168	
4	794	[redacted]ING		# 100	509	75.3051	75.3053	75.3054	0.0002	2		5	3	
5	878	[redacted]		# 50	BM	54.5965	54.6225	54.6221	0.0260	520		850	510	
6	2806030604	KerrMcGee	6-2-08	2	B	74.7072	74.7198	74.7195	0.0126	6300		8000	4800	
7	607			2	BO	76.3509	76.3638	76.3640	0.0129	6450			4800	
8	2806050052	[redacted]	5-25-08	50	28	66.9415	66.9603	66.9600	0.0188	376		685	411	
~~9~~														
10														
11														
Dup														
12														
13														
14														
15														
16														
17														
18														
19														
20														

MRL: 10 mg/L
EC*(0.55 - 0.7): expected TDS value
Min/Max Residue: 0.5mg - 200 mg

Holding time: 7 day from sampling date

Drying Efficiency: < 4% or 0.5 mg

% change = |Init - Fin| / Init * 100

Recoveries:
Blank - < 0.5mg
MRL - 50%-150%
LCS - 80%-114%
Duplicates - <10% RPD

Calculation:
TDS (mg/L) = [C-A] / B * 1,000,000

%RPD = |S1-S2| / ((S1+S2)/2) * 100

A = Crucible wt (g)
B = Sample Vol (ml)
C = Crucible+residue (g)

S1 = TDS of sample
S2 = TDS of duplicate

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91106

TOTAL DISSOLVED SOLIDS (TDS)
SM 2540C

9:00
Analysis Start Date: 5/5/08 End: 5/11/08
Analyst: AXA
Reviewed By:
LIMS Check By:
Was QC Criteria Met: (Y) N
Was QIR Needed: Y (N)

5/6/2008

Oven Temp (180° ± 2°C): Start: 180 C End: 180 C
Oven Mfr: "Precision STM 135" Ser no.: "11AW-6"

Dry Time (hrs): +12

Standards:		True Value Exp. Date	% Rec
NaCl MW# AXA080530-1	175 mg/L	11/30/08	80 - 114
Na2SO4 MW # AXA080530-2	700 mg/L	11/30/08	80 - 114
NaCl MW# AXA080603-3	10 mg/L	12/03/08	80 - 114

				B		A	C									
Run #	Sample ID	Client Name	Date Collected	Sample Volume (mL)	Crucible Number	Crucible Weight (g)	Crucible + residue 1st wt (g)	Crucible + residue 2nd wt (g)	QC 1	Residue C-A (g)	TDS (mg/L)	pH	EC	** TDS/EC	QC 2	3rd Weighing/Comments
Blk	Blank	N/A	N/A	50	19	50.7629	50.7630	50.7631		0.0001	2	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	MX	66.4323	66.4333	66.4334		0.0010	10	N/A	N/A	N/A		
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	BI	72.0379	72.0390	72.0389		0.0011	11	N/A	N/A	N/A		
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	DX	48.8161	48.8261	48.8262		0.0080	160	N/A	N/A	N/A		
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	18	52.6091	52.6429	52.6428		0.0338	676	N/A	N/A	N/A		
1	2805090118	KERR MCGEE	5/8/08	25	527	75.8938	75.8336	75.8339		0.1398	5592	7	6200	0.90	!	TDR
DUP	2805090118	KERR MCGEE	5/8/08	25	3VW	75.1873	75.3067	75.3065		0.1394	5576	7	6200	0.90	!	
2	2805070224	KERR MCGEE	5/6/08	2	LAL	65.5213	65.5450	65.5451		0.0237	11850	7	16300	0.73	!	+ TDS
3	2805070225	KERR MCGEE	5/6/08	2	DOD	74.7124	74.7370	74.7370		0.0246	12300	7	16110	0.76	!	+ TDS
4	2805070226	KERR MCGEE	5/6/08	2	Z4	70.7964	70.8208	70.8210		0.0224	11200	7	17000	0.66		+ TDS
5	2805070227	KERR MCGEE	5/6/08	2	Y14	72.3965	72.4208	72.4210		0.0243	12150	7	17700	0.69		+ TDS
6	2805070228	KERR MCGEE	5/6/08	2	NO	69.4380	69.4700	69.4701		0.0320	16000	7	17330	0.92	!	+ TDS
7	2805070229	KERR MCGEE	5/6/08	2	—	75.1380	75.1507	75.1508		0.0127	6350	7	12500	0.51	!	
8	2805070230	KERR MCGEE	5/6/08	2	37	70.1328	70.1527	70.1528		0.0201	10050	7	15000	0.67		
9	2805070231	KERR MCGEE	5/6/08	2	—	75.3998	75.4111	75.4115		0.0113	5650	7	12000	0.47	!	
10	2805070232	KERR MCGEE	5/6/08	2	BDL	73.3984	73.4190	73.4191		0.0206	10300	7	11300	0.91	!	
11	2805090122	KERR MCGEE	5/8/08	10	Z14	64.3241	64.4000	64.3998		0.0759	7590	7	9120	0.83	!	TDS -
DUP	2805090122	KERR MCGEE	5/8/08	10	415	79.4206	79.4964	79.4968		0.0758	7580	7	9120	0.83	!	TDS -
12	2805070234	KERR MCGEE	5/6/08	2	3Y	67.7783	67.7950	67.7947		0.0157	8350	7	11000	0.76	!	TDS -
13	2805070238	KERR MCGEE	5/6/08	10	9	50.7189	50.7930	50.7933		0.0761	7610	7	8800	0.86	!	
14	2805080665	KERR MCGEE	5/7/08	100	VV	73.4229	73.4230	73.4232		0.0001	1	7	3	0.33	!	+ TDS
15	2805090115	KERR MCGEE	5/8/08	25	15	50.5322	50.6415	50.6418		0.1093	4372	7	5400	0.81	!	+ TDS
16	2805090132	KERR MCGEE	5/8/08	2	30	68.0982	68.1160	68.1163		0.0178	8900	7	14120	0.63		
17	2805090137	KERR MCGEE	5/8/08	2	S	74.3911	74.4150	74.4149		0.0239	11950	7	17000	0.70	!	TDS -
18	2805140094	KERR MCGEE	5/13/08	10	AS	50.2126	50.2853	50.2856		0.0724	7240	7	8970	0.81	!	
19	2805140134	KERR MCGEE	5/13/08	10	BR	73.2797	73.2797	73.2796		0.0		7	1		!	TDS -
20	2805140116	KERR MCGEE	5/13/08	10	QA	69.1783	69.2478	69.2474		0.0695	8950	7	8780	0.79	!	

MRL: 10 mg/L
est **EC*(0.55 - 0.7): Expected TDS Value
Min/Max Residue: 0.5 mg - 200 mg

Holding time: 7 day from sampling date
Residues must be within 0.5 mg of each other

Recoveries:
Blank - <0.5 mg
MRL - 50 - 150%
LCS - 80 - 114%
Duplicates - < 10% RPD

Calculation:
$$TDS\ (mg/L) = \frac{[C-A] \times 1{,}000{,}000}{B}$$

$$\%RPD = \frac{|S1-S2|}{(S1+S2)/2} \times 100$$

A = Crucible Wt (g)
B = Sample Vol (mL)
C = Crucible + residue (g)

S1 = TDS of sample
S2 = TDS of Duplicate

MWH Laboratories
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

W34 6/5/08

Page 1 of 1

TOTAL DISSOLVED SOLIDS (TDS) MW SOP REVISION 6
SM2540C

9:00 STA

Analysis start date: 6/4/08 End: 6/11/08
Analyst: A + A
Reviewed By: YI 06/11/08
LIMS Check By:
Was QC Criteria Met: (Y) N
Was QIR Needed: Y (N)

Oven Temp (180°±2°C): Start 180 C End: 180 C
Oven Mfr: "Precision STM135" Ser no.: "11AW-6"

Dry Time (hrs): +12

Standards:

	True Value	Exp. Date	% Rec.
NaCl MW#wstd80530-1	175 mg/L	11/30/08	85-115
Na2SO4 MW#wstd80530-2	700 mg/L	11/30/08	85-115
NaCl MW#wstd80603-3	10 mg/L	12/3/08	50-150

Run #	Sample ID	Client Name	Date Collected	B Sample Volume (ml)	Crucible Number	A Crucible Weight (g)	C Crucible + residue 1st wt. (g)	Crucible + residue 2nd wt. (g)	Residue B-A (g)	TDS (mg/L)	pH	EC	EC*0.6	2nd Weighing/Comments
Blk	Blank	N/A	N/A	50	19	50.7629	50.7630	50.7631	0.0001	2	N/A	N/A	N/A	
MRL	MRL 1 - 10 mg/L	N/A	N/A	100	MX	66.4323	66.4323	66.4334	0.0010	10	N/A	N/A	N/A	
MRL	MRL 1 - 10 mg/L DUP	N/A	N/A	100	BI	72.0379	72.0390	72.0389	0.0011	11	N/A	N/A	N/A	
LCS	LCS 1 - 175 mg/L	N/A	N/A	50	DX	48.9181	48.8261	48.8262	0.0080	160	N/A	N/A	N/A	
LCS	LCS 2 - 700 mg/L	N/A	N/A	50	18	52.6091	52.6429	52.6428	0.0338	676	N/A	N/A	N/A	
1	1805090118	Kerr McGee	5-5-08	25	527	75.6838	75.8336	75.8339	0.1398	5587	7	6100	3720	
Dup	116				3VW	75.1673	75.1067	75.3065	0.1394	5576		6200	3720	
2	1805070224		5-6-08	2	LAL	65.5213	65.6450	65.6451	0.0237	11850		16300	9780	
3	225				DOD	74.7124	74.7370	74.7370	0.0246	12300		16110	9666	
4	226				24	70.7984	70.8208	70.8210	0.0224	11200		17000	10200	
5	227				Y14	72.3965	72.4208	72.4210	0.0243	12150		17700	10620	
6	228				NO	69.4780	69.4700	69.4701	0.0320	16000		17330	10398	
7	229				-	75.1380	76.1507	75.1508	0.0127	6350		12500	7500	
8	230				37	70.1326	70.1527	70.1528	0.0201	10050		15000	9000	
9	231				-	75.3998	75.4111	75.4115	0.0113	5650		12000	7200	
10	232				BDL	73.3984	73.4190	73.4191	0.0206	10300		11300	6780	
11	1805090122		5-8-08	10	Z14	64.5241	64.4000	64.5998	0.0757	7570		9120	5472	
Dup	122			10	415	79.4206	79.4964	79.4968	0.0758	7580		9120	5472	
12	1805070234		5-6-08	2	34	67.7783	67.7950	67.7947	0.0167	8350		11000	6600	
13	238			10	9	50.7169	50.7930	50.7953	0.0761	7610		8800	5280	
14	1805080605		5-7-08	100	VV	73.4229	73.4230	73.4232	0.0001	1		3	1.8	
15	1805090115		5-8-08	25	16	50.5322	50.6415	50.6418	0.1093	4372		5400	3240	
16	132			2	30	68.0982	68.1160	68.1163	0.0178	8900		14120	8472	
17	137			2	S	74.3911	74.4150	74.4149	0.0239	11950		17000	10200	
18	1805140094		5-13-08	10	AS	50.2129	50.1853	50.2864	0.0724	7240		8970	5382	
19	134			10	BR	73.2797	73.2797	73.2796	0	0		1	0.6	
20	116			10	QA	69.1783	69.2478	69.2474	0.0695	6950		8780	5268	

MRL: 10 mg/L
EC*(0.55 - 0.7): expected TDS value
Min/Max Residue: 0.5mg - 200 mg

Holding time: 7 day from sampling date

Drying Efficiency: < 4% or 0.5 mg
% change = |Init - Fin| * 100 / Init

Recoveries:
Blank - < 0.5mg
MRL - 50%-150%
LCS - 80%-114%
Duplicates - <10% RPD

Calculation:
TDS (mg/L) = [C-A] / B * 1,000,000

%RPD = |S1-S2| / (S1+S2)/2 * 100

A = Crucible wt (g)
B = Sample Vol (ml)
C = Crucible+residue (g)

S1 = TDS of sample
S2 = TDS of duplicate

all samples TDR

Received by Supervisor on 30-may-2008
QIR initiated by: lmr

QUALITY INVESTIGATION REPORT **QIR No.:** WETL_242625

Analysis date: 051308
Analyst: axa
Method reference: E160.1-SM2
Analytical instrument: INOT1
Extraction Date: 051308
Prepared By: axa

Group	Sample#	Sample ID	Customer	QC Ref	Test	PM
240243	2805090184	PC-2	KERRMCGEE-MP	428171	TDS	ADE
240243	2805090185	PC-2D	KERRMCGEE-MP	428171	TDS	ADE
240243	2805090181	PC-4	KERRMCGEE-MP	428171	TDS	ADE
240243	2805090186	EB050808	KERRMCGEE-MP	428171	TDS	ADE
240243	2805090189	FB050808	KERRMCGEE-MP	428171	TDS	ADE
240326	2805100132	CLD1-R	KERRMCGEE-MP	428171	TDS	ADE
240326	2805100131	CLD2-RD	KERRMCGEE-MP	428171	TDS	ADE
240326	2805100134	PC-108	KERRMCGEE-MP	428171	TDS	ADE
240326	2805100133	PC-110	KERRMCGEE-MP	428171	TDS	ADE
240326	2805100135	PC-62	KERRMCGEE-MP	428171	TDS	ADE
240326	2805100137	EB050908	KERRMCGEE-MP	428171	TDS	ADE
240326	2805100136	PC-112	KERRMCGEE-MP	428171	TDS	ADE
240327	2805100139	M-115	KERRMCGEE-MP	428171	TDS	ADE
240327	2805100138	M-22A	KERRMCGEE-MP	428171	TDS	ADE
240327	2805100140	M-14A	KERRMCGEE-MP	428171	TDS	ADE
240407	2805120190	100249	[redacted]	428171	TDS	JCH

Brief Description:(include reason for non-compliance-Root Cause)

LCS1 recovery was 61% and the acceptable range is 80%-114%. LCS1 is NaCl solution used to assess how well the dissolved salts are moving through the glass fiber filter. LCS2, a sodium sulfate solution, yielded a recovery of 91%. Sodium sulfate is used to assess if any moisture is adsorbed to the residue during the final weighings.

Corrective Action Taken/Prevention:

Results reported. Duplicates for the run were <10% RPD and the reported results were within the expected range based on the TDS/EC ratios. Two other batches analysed that day had LCS1 recoveries of 94.3% and 86.9%.

Impact on Data Quality:

Possible low bias to samples results based on LCS1 recovery. Reported results had TDS/EC ratios in the mid-60s to 70s percentile.
LIMS user:lmr Date/time stamp:05-jun-2008 13:36:56

Data Disposition/Acceptable/Method/Regulations:

Data acceptable for compliance based on passing LCSs and other QCs. Report with L2 flag.
LIMS user:yyc Date/time stamp:05-jun-2008 14:41:37

Annotation:

L2 - The associated blank spike recovery was below lab acceptance limits.
LIMS user:yyc Date/time stamp:05-jun-2008 14:41:37

Client Contact:

ok to report - comment on low LCS recovery.
LIMS user:ade Date/time stamp:06-jun-2008 06:12:09

[redacted] - report results. flag/comment per qir.
LIMS user:jch Date/time stamp:09-jun-2008 13:05:11

Detail Report for QIR group# 242625

Group	Sample#	Sample ID	Customer	QC Ref	Test	Analyst	Analysis Date	Prep	Prep Date	Inst
240243	2805090181	PC-4	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240243	2805090184	PC-2	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240243	2805090185	PC-2D	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240243	2805090186	EB050808	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240243	2805090189	FB050808	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240326	2805100131	CLD2-RD	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240326	2805100132	CLD1-R	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240326	2805100133	PC-110	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240326	2805100134	PC-108	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240326	2805100135	PC-62	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240326	2805100136	PC-112	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240326	2805100137	EB050908	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240327	2805100138	M-22A	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240327	2805100139	M-11S	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240327	2805100140	M-14A	KERRMCGEE-MP	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1
240407	2805120190	100249	[redacted]	428171	TDS	axa	05/13/08 10:14	axa	05/13/08 07:00	INOT1

Batch# 428171 TDS

Analyte	QC	Actual	Found	Lower	Yield	Upper	Statu
Total Dissolved Solid (TDS)	DUP	4676	4900	0.0	4.7	10.0	OK
Total Dissolved Solid (TDS)	LCS1	175	116	80.0	66.3	114.0	Alarm
Total Dissolved Solid (TDS)	LCS2	700	638	80.0	91.1	114.0	OK
Total Dissolved Solid (TDS)	MBLK	ND	ND	0.0		0.0	OK
Total Dissolved Solid (TDS)	MRL_CHK	10.0	8	50.0	80.0	150.0	OK
Total Dissolved Solid (TDS)	RPD_LCS	66.28	91.14	0.0	31.58	20.0	Alarm

Standard Preparation Worksheet & Certificate of Analysis

Reagent Preparation Documentation

Page: _____

AXA080530-2

Reagent: TDS 700ppm
Date Received/Prepped: 4/4/08 | 4/17/08 | 5/3/08 | 5/4/08 | 5/9/08 | 5/30/08
Date Expired: 10/4/08 | 10/17/08 | 11/3/08 | 5/4/08 | 11/5/08 | 11/30/08
Manufacturer:
Storage Condition:

MW #: AXA080530-2
By: Andrea
Matrix: AQ
Amount: 1L
Lot #: 46282709

Component	Comment	Standard	Concentration
Sodium Sulfate	Weigh 0.7003g & dilute w/ 1L of DI H2O		
	~~2.70~~ 0.6995g. to 1L DI H2O	AXD080417-2	

Comment:

Reagent: TDS 10ppm
Date Received/Prepped: 4/15/08 | 4/17/08 | 4/23/08 | 4/29/08 | 5/1/08 | 5/7/08
Date Expired: 10/15/08 | 10/17/08 | 10/23/08 | 10/29/08 | 11/1/08 | 11/7/08
Manufacturer:
Storage Condition:

MW #: AXD080415 ~~3~~ 4
By: AXD
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
500ppm Stock	20 mL dilute in 1000mL DI H2O	AXA071213-2 ~~2~~ 4	
"	"		
"	"	AXA080423-3	

Comment:

Reagent: TSS 10ppm
Date Received/Prepped: 4/30/08 | 5/12/08 | 5/21/08 | 6/10/08 | 6/30/08 | 7/25/08
Date Expired: 10/30/08 | 11/12/08 | 11/21/08 | 12/10/08 | 12/30/08 | 1/25/09
Manufacturer:
Storage Condition:

MW #: AXA080430-2
By: Andrea
Matrix:
Amount:
Lot #:

Component	Comment	Standard	Concentration
0.0118g solute	dilute in 1L of DI H2O	R200830	10
"	"	↓	↓
"	"		
"			

Comment: R200830

Reagent Preparation Documentation

Page: _____

Reagent: TDS 175 ppm AXA080530-1
Date Received/Prepped: 5/7/08 | 6/18/08 | 5/30/08 | 6/3/08 | 6/30/08 | 7/2/08
Date Expired: 11/7/08 | 11/18/08 | 11/30/08 | 12/3/08 | 12/30/08 | 1/2/09
Manufacturer:
Storage Condition:

MW #: AXA080507-1
By: AKA
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
1000 ppm NaCl	175 ml + dilute to 1L w/ DI H2O	R201617	

Comment:

Reagent: TDS 10 ppm
Date Received/Prepped: 5/09/08 | 5/13/08 | 5/15/08 | 5/16/08 | 5/22/08 | 5/27/08
Date Expired: 11/9/08 | 11/13/08 | 11/15/08 | 11/18/08 | 11/22/08 | 11/27/08
Manufacturer:
Storage Condition:

MW #: AXA080509-3
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
500 ppm NaCl	20 ml + dilute to 1L w/ DI H2O	R201617	

Comment:

Reagent: TDS 40 ppm AXA080603-3
Date Received/Prepped: 5/30/08 | 6/3/08 | 6/12/08 | 6/23/08 | 7/1/08 | 7/2/08
Date Expired: 11/2/08 | 12/2/08 | 12/23/08 | 1/1/09 | 1/2/09
Manufacturer:
Storage Condition:

MW #: AXA080530-3
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
500 ppm NaCl	20 ml + dilute to 1L w/ DI	R201617	
"			
"			
"			
"			

Comment:

Reagent Preparation Documentation

Page: _____

Reagent: TDS 175 ppm
Date Received/Prepped: 5/7/08 | 6/18/08 | 5/30/08 | 6/3/08 | 6/30/08 | 7/2/08
Date Expired: 11/7/08 | 11/18/08 | 11/30/08 | 12/3/08 | 12/30/08 | 1/2/09
Manufacturer:
Storage Condition:

MW #: AA080574
By: AA
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
1000 ppm NaCl	175 mL + dilute to 1L w/ DI H2O	K201617	

Comment:

Reagent: TDS 10 ppm
Date Received/Prepped: 6/09/08 | 5/13/08 | 5/15/08 | 5/18/08 | 5/22/08 | 5/27/08
Date Expired: 11/6/08 | 11/13/08 | 11/15/08 | 11/18/08 | 11/22/08 | 11/27/08
Manufacturer:
Storage Condition:

MW #: AA080529-3
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
500 ppm NaCl	20 mL + dilute to 1L w/ DI H2O	K201617	

Comment:

Reagent: TDS 10 ppm
Date Received/Prepped: 5/30/08 | 6/3/08 | 6/12/08 | 6/23/08 | 7/11/08 | 7/2/08
Date Expired: 12/3/08 | 12/12/08 | 12/23/08 | 1/01/09 | 1/2/09
Manufacturer:
Storage Condition:

MW #: AA080530-3
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
500 ppm NaCl	20 mL + dilute to 1L w/ DI	K201617	
"			
"			
"			

Comment:

Reagent Preparation Documentation

Reagent: TDS 500ppm Intermediate
Date Received/Prepped: 11/27/07 | | | | |
Date Expired: 5/27/08 | | | | |
Manufacturer:
Storage Condition:

MW #: 9x407127
By: Andrea
Matrix: AQ
Amount: 1L
Lot #: 070196

Component	Comment	Standard	Concentration
10000 ppm NaCl	Take 50ml + dilute to 1L of DI H2O	R201617	

Comment:

Reagent: TDS 10 ppm
Date Received/Prepped: 2/5/08 | 2/17/08 | 3/3/08 | 3/17/08 | 3/20/08 | 3/29/08
Date Expired: 5/5/08 | 5/17/08 | 9/3/08 | 9/17/08 | 9/20/08 | 9/29/08
Manufacturer:
Storage Condition:

MW #: 4x4030205-2
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
0.0118g Celite	dilute in 1L of DI H2O	R200030	(10ppm)

Comment: Celite 545 (R200030)

Reagent: TDS 175 ppm
Date Received/Prepped: 2/5/08 | 3/3/08 | 7/25/08 | 5/12/08 | 5/17/08 | 9/5/08
Date Expired: 8/5/08 | 9/3/08 | 10/25/08 | 11/12/08 | 11/17/08 | 2/5/09
Manufacturer:
Storage Condition:

MW #: 4x4030205-1
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
0.1753 Celite	diluted in 1L of DI H2O	200030	175ppm
0.1752 Celite			
0.1750 Celite			
0.1751 Celite			
0.1752 Celite			
0.1753 Celite			

Comment:

Reagent Documentation

Reagent: DPD Free Chlorine Reagent
Date Received: 20 April
Date Expired: March 2010
Manufacturer: HACH
Storage Condition: 10-25°C

Reagent #: 201615
By: TLH
Matrix: solid
Amount: 15 x 47g
Lot #: A7078

Component	Comment	Standard	Concentration
	HACH # 21055-60		
	10 inorganics		
	5 GC		

Comment:

Reagent: TOX Organic Standard
Date Received: April 24 07
Date Expired: Oct 23 07
Manufacturer: CPI
Storage Condition: room temp

Reagent #: 201616
By: TLH
Matrix: aq
Amount: 100mL
Lot #: 122206

Component	Comment	Standard	Concentration
	CPI # 805-001		

Comment:

Reagent: 10,000ug/mL NaCl Std
Date Received: 24 April 07
Date Expired: Oct 08
Manufacturer: CPI
Storage Condition: room temp

Reagent #: 201617
By: TLH
Matrix: aq
Amount: 2500mL
Lot #: 07D196

Component	Comment	Standard	Concentration
	CPI # 4400-05104RH02		

Comment:

R201617 Feed 4-24-07

CPI INTERNATIONAL

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Innovative Solutions in Analytical Science and Technology

Expiry: 10/23/2008

Certificate of Analysis

Part Number: **4400-051014RH02**
Lot Number: **07D196**
Shelf Life: **18 months**

MWH
Custom NaCl
H2O

Concentrations in ug/mL ± 0.5%

NaCl	10000

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

Reagent Preparation Documentation

Page: _____

Reagent: TDS 700ppm → AXA080504-2
Date Received/Prepped: 4/4/08 | 4/17/08 | ~~4/23/08~~ | 5/4/08 | 5/19/08 | ~~5/30/08~~
Date Expired: 10/4/08 | 10/17/08 | ~~10/23/08~~ 11/4/08 | 11/19/08 | 11/30/08
Manufacturer:
Storage Condition:

MW #: AXA080504-2
By: Andrea
Matrix: AQ
Amount: 1L
Lot #: 46282709

Component	Comment	Standard	Concentration
Sodium Sulfate	Weigh 0.7003g + dilute w/ 1L of DI H_2O		
	~~0.70~~ 0.6995g to 1L DI H_2O	AXA080417-2	

Comment:

Reagent: TDS 10ppm
Date Received/Prepped: 4/15/08 | 4/17/08 | 4/23/08 | 4/29/08 | 5/1/08 | 5/7/08
Date Expired: 10/15/08 | 10/17/08 | 10/23/08 | 10/29/08 | 11/1/08 | 11/7/08
Manufacturer:
Storage Condition:

MW #: AXA080415 ~~3~~ 4
By: AXA
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
500ppm Soln	20 ml dilute to 1000mL DI H_2O	AXA071213-2 ~~4~~	
"	"		
"	"	AXA080423-3	

Comment:

Reagent: TSS 10ppm
Date Received/Prepped: 4/30/08 | 5/12/08 | 5/21/08 | 6/10/08 | 6/30/08 | 7/25/08
Date Expired: 10/30/08 | 11/12/08 | 11/21/08 | 12/10/08 | 12/30/08 | 1/25/09
Manufacturer:
Storage Condition:

MW #: AXA080430-2
By: Andrea
Matrix:
Amount:
Lot #:

Component	Comment	Standard	Concentration
0.0118g solid	dilute to 1L of DI H_2O	R200030	10
"	"	↓	↓
"	"		
"			

Comment: R200030

Reagent Preparation Documentation

Page:_____

Reagent: TDS 175 ppm (AXA080507-1)
Date Received/Prepped: 5/7/08 | 5/18/08 | 5/30/08 | 6/3/08 | 6/30/08 | 7/2/08
Date Expired: 11/7/08 | 11/18/08 | 11/30/08 | 12/3/08 | 12/30/08 | 1/2/09
Manufacturer:
Storage Condition:

MW #: AXA080507-1
By: AKA
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
1000ppm NaCl	12.5ml + dilute to 1L w/DI H2O	R2016/7	

Comment:

Reagent: TDS 10ppm (AXA080513-3)
Date Received/Prepped: 5/07/08 | 5/13/08 | 5/15/08 | 5/18/08 | 5/22/08 | 5/27/08
Date Expired: 11/9/08 | 11/13/08 | 11/15/08 | 11/18/08 | 11/22/08 | 11/27/08
Manufacturer:
Storage Condition:

MW #: AXA080529-3
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
500ppm NaCl	20ml + dilute to 1L w/DI H2O	R2016/7	

Comment:

Reagent: TDS 10ppm
Date Received/Prepped: 5/30/08 | 6/3/08 | 6/12/08 | 6/23/08 | 7/1/08 | 7/2/08
Date Expired: 12/3/08 | 12/12/08 | 12/23/08 | 1/01/09 | 1/2/09
Manufacturer:
Storage Condition:

MW #: AXA080530-3
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
500ppm NaCl	20ml + dilute to 1L w/DI	R2016/7	
"			
"			
"			
"			

Comment:

Reagent Documentation

Reagent: DPD Free Chlorine Reagent
Date Received: 20 April
Date Expired: March 2010
Manufacturer: HACH
Storage Condition: 10-25°C

Reagent #: 201615
By: TLH
Matrix: solid
Amount: 15 x 47g
Lot #: A7078

Component	Comment	Standard	Concentration
	HACH # 21055-60		
	10 inorganics		
	5 GC()		

Comment:

Reagent: TCX Organic Standard
Date Received: April 24 07
Date Expired: Oct 23 07
Manufacturer: CPI
Storage Condition: room temp

Reagent #: 201616
By: TLH
Matrix: aq
Amount: 100mL
Lot #: 122206

Component	Comment	Standard	Concentration
	CPI # 805-001		

Comment:

Reagent: 10,000ug/mL NaCl Std
Date Received: 24 April 07
Date Expired: Oct 08
Manufacturer: CPI
Storage Condition: room temp

Reagent #: 201617
By: TLH
Matrix: aq
Amount: 22500mL
Lot #: 07D196

Component	Comment	Standard	Concentration
	CPI # 4400-05104RH02		

Comment:

R201617 Rec'd 4-24-07

CPI INTERNATIONAL

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Expiry: 10/23/2008

Certificate of Analysis

Part Number: **4400-051014RH02**
Lot Number: **07D196**
Shelf Life: **18 months**

MWH
Custom NaCl
H2O

Concentrations in ug/mL ± 0.5%

NaCl	10000

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

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Reagent Preparation Documentation

Reagent: TDS 500ppm Intermediate
Date Received/Prepped: 11/27/07 | | | | |
Date Expired: 5/27/08 | | | | |
Manufacturer:
Storage Condition:

MW #: AK071127
By: Andrea
Matrix: AQ
Amount: 1L
Lot #: 070196

Component	Comment	Standard	Concentration
10000 ppm NaCl	Take 50ml + dilute to 1L of DI H2O	R201617	

Comment:

Reagent: TDS 10 ppm
Date Received/Prepped: 2/5/08 | 2/17/08 | 3/3/08 | 3/17/08 | 3/20/08 | 3/29/08
Date Expired: 8/5/08 | 8/17/08 | 9/3/08 | 9/17/08 | 9/20/08 | 9/29/08
Manufacturer:
Storage Condition:

MW #: AK080205-2
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
0.0118g Celite	dilute in 1L of DI H2O	R200030	(10ppm)

Comment: Celite 545 (R200030)

Reagent: TDS 175 ppm
Date Received/Prepped: 2/5/08 | 3/3/08 | 4/25/08 | 5/12/08 | 5/17/08 | 8/5/08
Date Expired: 8/5/08 | 9/3/08 | 10/25/08 | 11/12/08 | 11/17/08 | 2/5/09
Manufacturer:
Storage Condition:

MW #: AK080205-1
By: Andrea
Matrix: AQ
Amount: 1L
Lot #:

Component	Comment	Standard	Concentration
0.1753 Celite	diluted in 1L of DI H2O	200030	175ppm
0.1752 Celite			
0.1750 Celite			
0.1751 Celite			
0.1752 Celite			
0.1753 Celite			

Comment: