Sample No.	Method: 300.0 Analyst: P.Betts	Ret.Time min	Area µS*min	Height µS	Amount	Dilution Factor	Calculated Amount	Data Notes
		Chloride	Chloride	Chloride	Chloride			
		CD_1	CD_1	CD_1	CD_1		CHLORIDE	
1	Rinse Water	n.a.	n.a.	n.a.	n.a.			
2	Rinse Water	5.560	0.0011	0.01	0.0033			
3	STD 1	5.617	0.0300	0.35	0.0942			
4	STD 2	5.557	0.1561	1.78	0.4899			
5	STD 3	5.557	0.3166	3.59	0.9935			
6	STD 4	5.557	0.6393	7.21	2.0061			
7	Rinse Water	n.a.	n.a.	n.a.	n.a.			
8	1211086-BLK1	5.564	0.0011	0.01	0.0035		0.10U	
9	1211086-PS1	5.557	0.0303	0.35	0.0950		95.0% REC	
10	1211086-CCV1	5.617	0.3165	3.70	0.9932		99.3% REC.	
11	1211086-BS1	5.617	0.3171	3.70	0.9950		99.5% REC.	
12	Rinse water	5.567	0.0010	0.01	0.0033			
13	1211086-BLK2	5.617	0.0088	0.10	0.0277		0.10U	
14	1211086-BLK3	5.557	0.0018	0.02	0.0057		0.10U	
15	E124405-01	5.617	0.0034	0.04	0.0108		0.10U	
16	E124405-02	5.557	0.0065	0.07	0.0203		0.10U	
17	E124405-03	5.617	0.0062	0.07	0.0194		0.10U	
18	E124405-04	5.557	0.0036	0.04	0.0112		0.10U	
19	E124405-05	5.617	0.0026	0.03	0.0083		0.10U	
20	E124405-06	5.620	0.3365	3.92	1.0560		1.0560	
21	E124405-07	5.557	0.0042	0.05	0.0133		0.10U	
22	E124405-08	5.617	0.0055	0.06	0.0173		0.10U	
23	E124405-09	5.617	0.0102	0.12	0.0322		0.10U	
24	E124405-10	5.617	0.0081	0.10	0.0256		0.10U	
25	1211086-MS1	5.620	0.3145	3.67	0.9869		98.7% SPK REC	RPD= 0.83
26	1211086-MSD1	5.557	0.3119	3.54	0.9787		97.9% SPK REC	
27	Rinse Water	5.570	0.0011	0.01	0.0033			
28	1211086-BLK4	5.627	0.0011	0.01	0.0033		0.10U	
29	1211086-CCV2	5.620	0.3168	3.69	0.9943		99.4% REC.	
30	E124405-11	5.557	0.0053	0.06	0.0167		0.10U	
31	E124405-12	5.620	0.0029	0.03	0.0090		0.10U	
32	E124405-13	5.617	0.0025	0.03	0.0079		0.10U	
33	E124405-14	5.617	0.0030	0.04	0.0094		0.10U	
34	E124405-15	5.560	0.0063	0.07	0.0198		0.10U	
35	E124405-16	5.620	0.0131	0.15	0.0412		0.10U	
36	E124405-17	5.620	0.0068	0.08	0.0214		0.10U	
37	E124405-18	5.557	0.0051	0.06	0.0161		0.10U	
38	E124405-19	5.620	0.1084	1.27	0.3401		0.3401	
39	E124405-20	5.557	0.0030	0.03	0.0093		0.10U	
40	1211086-MS2	5.617	0.3219	3.75	1.0101		101% REC.	RPD= 1.2
41	1211086-MSD2	5.560	0.3181	3.60	0.9983		99.8% REC.	
42	Rinse Water	5.567	0.0011	0.01	0.0033			
43	1211086-BLK5	5.570	0.0011	0.01	0.0034		0.10U	

							CHLORIDE	
44	1211086-CCV3	5.560	0.3174	3.59	0.9959		99.6% REC.	
45	E124405-21	5.557	0.0048	0.06	0.0150		0.10U	
46	E124405-22	5.620	0.0028	0.03	0.0088		0.10U	
47	E124405-23	5.620	0.0109	0.13	0.0344		0.10U	
48	E124405-24	5.617	0.0026	0.03	0.0083		0.10U	
49	E124405-25	5.560	0.0040	0.04	0.0126		0.10U	
50	E124405-26	5.557	0.0037	0.04	0.0116		0.10U	
51	E124405-27	5.560	0.0066	0.08	0.0208		0.10U	
52	E124405-28	5.560	0.0056	0.06	0.0175		0.10U	
53	1211086-MS3	5.560	0.3232	3.65	1.0142		101% REC.	RPD = 1.5
54	1211086-MSD3	5.560	0.3183	3.59	0.9988		99.9% REC.	
55	Rinse Water	n.a.	n.a.	n.a.	n.a.			
56	1211086-BLK6	5.567	0.0011	0.01	0.0034		0.10U	
57	1211086-CCV4	5.623	0.3163	3.67	0.9926		99.3% REC.	
58	1000 ppm CL Line. CK	5.570	316.7480	2819.41	994.0050		99.4% REC.	
59	1000 ppm SO4 Line. C	5.607	0.0049	0.06	0.0154			
60	Shutdown	n.a.	n.a.	n.a.	n.a.			
	Average:	**5.587**	**5.750**	**51.427**	**18.046**			
	Rel.Std.Dev:	**0.525 %**	**735.861 %**	**732.338 %**	**735.861 %**			

Sample No.	Method: 300.0 Analyst: P.Betts	Ret.Time min	Area µS*min	Height µS	Amount	Dilution Factor	Calculated Amount	Data Notes
		Sulfate CD_1	Sulfate CD_1	Sulfate CD_1	Sulfate CD_1		SULFATE	
1	Rinse Water	7.790	0.0040	0.03	0.0171			
2	Rinse Water	7.767	0.0041	0.03	0.0175			
3	STD 1	7.833	0.0229	0.24	0.0971			
4	STD 2	7.810	0.1160	1.22	0.4915			
5	STD 3	7.810	0.2347	2.47	0.9945			
6	STD 4	7.807	0.4732	4.95	2.0050			
7	Rinse Water	7.774	0.0042	0.03	0.0178			
8	1211086-BLK1	7.770	0.0043	0.03	0.0181		0.10U	
9	1211086-PS1	7.810	0.0229	0.24	0.0969		96.9% REC.	
10	1211086-CCV1	7.837	0.2348	2.47	0.9948		99.5% REC.	
11	1211086-BS1	7.833	0.2350	2.48	0.9958		99.6% REC.	
12	Rinse water	7.770	0.0039	0.03	0.0166			
13	1211086-BLK2	7.833	0.0016	0.02	0.0067		0.10U	
14	1211086-BLK3	7.814	0.0012	0.01	0.0051		0.10U	
15	E124405-01	7.830	0.0030	0.03	0.0128		0.10U	
16	E124405-02	7.810	0.0025	0.03	0.0107		0.10U	
17	E124405-03	7.837	0.0025	0.03	0.0104		0.10U	
18	E124405-04	7.810	0.0022	0.02	0.0095		0.10U	
19	E124405-05	7.837	0.0016	0.02	0.0067		0.10U	
20	E124405-06	7.830	0.6782	7.14	2.8738		2.8738	
21	E124405-07	7.814	0.0398	0.39	0.1686		0.1686	
22	E124405-08	7.837	0.0310	0.32	0.1316		0.1316	
23	E124405-09	7.837	0.0436	0.45	0.1847		0.1847	
24	E124405-10	7.837	0.0330	0.34	0.1400		0.1400	
25	1211086-MS1	7.837	0.2601	2.74	1.1021		96.2% REC.	RPD= 0.08
26	1211086-MSD1	7.810	0.2603	2.72	1.1030		96.3% REC.	
27	Rinse Water	7.767	0.0045	0.03	0.0193			
28	1211086-BLK4	7.793	0.0043	0.03	0.0181		0.10U	
29	1211086-CCV2	7.837	0.2351	2.47	0.9964		99.4% REC.	
30	E124405-11	7.814	0.0319	0.32	0.1353		0.1353	
31	E124405-12	7.840	0.0288	0.30	0.1221		0.1221	
32	E124405-13	7.840	0.0203	0.20	0.0859		0.10U	
33	E124405-14	7.840	0.0211	0.21	0.0893		0.10U	
34	E124405-15	7.814	0.0428	0.43	0.1815		0.1815	
35	E124405-16	7.840	0.0659	0.67	0.2792		0.2792	
36	E124405-17	7.840	0.0345	0.34	0.1460		0.1460	
37	E124405-18	7.810	0.0279	0.27	0.1183		0.1183	
38	E124405-19	7.837	0.3516	3.68	1.4901		1.4901	
39	E124405-20	7.817	0.0330	0.33	0.1397		0.1397	
40	1211086-MS2	7.837	0.2674	2.82	1.1333		99.4% REC.	RPD= 0.85
41	1211086-MSD2	7.814	0.2652	2.78	1.1237		98.4% REC.	
42	Rinse Water	7.770	0.0050	0.03	0.0210			
43	1211086-BLK5	7.770	0.0042	0.03	0.0179		0.10U	

							SULFATE	
44	1211086-CCV3	7.814	0.2356	2.46	0.9985		99.8% REC.	
45	E124405-21	7.817	0.0328	0.33	0.1392		0.1392	
46	E124405-22	7.840	0.0291	0.30	0.1233		0.1233	
47	E124405-23	7.843	0.0310	0.31	0.1312		0.1312	
48	E124405-24	7.840	0.0281	0.29	0.1190		0.1190	
49	E124405-25	7.817	0.0287	0.29	0.1216		0.1216	
50	E124405-26	7.814	0.0348	0.34	0.1473		0.1473	
51	E124405-27	7.817	0.0346	0.33	0.1465		0.1465	
52	E124405-28	7.817	0.0338	0.34	0.1432		0.1432	
53	1211086-MS3	7.817	0.2665	2.78	1.1294		98.6% REC	RPD= 1.6
54	1211086-MSD3	7.817	0.2624	2.74	1.1117		96.8% REC.	
55	Rinse Water	7.780	0.0047	0.03	0.0197			
56	1211086-BLK6	7.777	0.0041	0.03	0.0175		0.104	
57	1211086-CCV4	7.843	0.2331	2.45	0.9879		98.8% REC	
58	1000 ppm CL Line. CK	7.840	0.0144	0.15	0.0609		NA	
59	1000 ppm SO4 Line. C	7.410	221.2691	748.08	937.6212		93.8% REC.	
60	Shutdown	n.a.	n.a.	n.a.	n.a.			
	Average:	**7.810**	**3.842**	**13.639**	**16.282**			
	Rel.Std.Dev:	**0.740 %**	**749.381 %**	**713.236 %**	**749.381 %**			

PREPARATION BENCH SHEET

1211086

US-EPA, Region 4, SESD

Printed: 11/29/2012 1:37:22PM

Matrix: Air

pared using: ICS Class - C M/T Bottle/Dry Ice Blank P

Lab Number	Analysis	Prepared	By	Initial (Filter)	Final (mL)	Source ID	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Comments
1211086-BLK1	QC	11/20/12 15:11	PB1	1	50						
1211086-BLK2	QC	11/20/12 15:11	PB1	1	50						
1211086-BLK3	QC	11/20/12 15:11	PB1	1	50						
1211086-BLK4	QC	11/20/12 15:11	PB1	1	50						
1211086-BLK5	QC	11/20/12 15:11	PB1	1	50						
1211086-BLK6	QC	11/20/12 15:11	PB1	1	50						
1211086-BS1	QC	11/20/12 15:11	PB1	1	50		2081606	1000			
1211086-BS2	QC	11/20/12 15:11	PB1	1	50		2081606	1000			
1211086-CCV1	QC	11/20/12 15:11	PB1	1	50		2081606	1000			
1211086-CCV2	QC	11/20/12 15:11	PB1	1	50		2081606	1000			
1211086-CCV3	QC	11/20/12 15:11	PB1	1	50		2081606	1000			
1211086-CCV4	QC	11/20/12 15:11	PB1	1	50		2081606	1000			
1211086-CCV5	QC	11/20/12 15:11	PB1	1	50		2081606	1000			
1211086-CCV6	QC	11/20/12 15:11	PB1	1	50		2081606	1000			
1211086-MS1	QC	11/20/12 15:11	PB1	1	200	E124405-10	2112601	200			
1211086-MS2	QC	11/20/12 15:11	PB1	1	200	E124405-20	2112601	200			
1211086-MS3	QC	11/20/12 15:11	PB1	1	200	E124405-28	2112601	200			
1211086-MSD1	QC	11/20/12 15:11	PB1	1	200	E124405-10	2112601	200			
1211086-MSD2	QC	11/20/12 15:11	PB1	1	200	E124405-20	2112601	200			
1211086-MSD3	QC	11/20/12 15:11	PB1	1	200	E124405-28	2112601	200			
1211086-PS1	QC	11/20/12 15:11	PB1	1	50		2081611	500			
E124405-01	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L

Verified By _____ Date _____

PREPARATION BENCH SHEET

1211086

US-EPA, Region 4, SESD

Printed: 11/29/2012 1:37:22PM

Matrix: Air

·pared using: ICS Class - C M/T Bottle/Dry Ice Blank P

Lab Number	Analysis	Prepared	By	Initial (Filter)	Final (mL)	Source ID	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Comments
E124405-12	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-13	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-13	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-14	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-14	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-15	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-15	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-16	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-16	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-17	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-17	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-18	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-18	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-19	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-19	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-20	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-20	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-21	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-21	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-22	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L
E124405-22	Sulfate (Routine) by Ior	11/20/12 15:11	PB1	1	200						from F2L
E124405-23	Chloride (Routine) by I	11/20/12 15:11	PB1	1	200						from F2L

Verified By _____ Date _____

Chloride (Routine) by Ion Chromatography

		IResult	FResult	Qualifiers	Units	MRL	TrueValue	Prep I/F	Recovery	RPD
Air	**1211086-BLK1 (Blank)**									
	Chloride	0.00	0.15000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK2 (Blank)**									
	Chloride	0.03	1.4000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK3 (Blank)**									
	Chloride	0.01	0.30000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK4 (Blank)**									
	Chloride	0.00	0.15000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK5 (Blank)**									
	Chloride	0.00	0.15000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK6 (Blank)**									
	Chloride	0.00	0.15000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BS1 (LCS)**									
	Chloride	1.00	49.750		ug/Filter	5.0	50.000	1.00Filter/50.0	99.5	
Air	**1211086-CCV1 (Calibration Check)**									
	Chloride	0.99	49.650		ug/Filter		50.000	1.00Filter/50.0	99.3	
Air	**1211086-CCV2 (Calibration Check)**									
	Chloride	0.99	49.700		ug/Filter		50.000	1.00Filter/50.0	99.4	
Air	**1211086-CCV3 (Calibration Check)**									
	Chloride	1.00	49.800		ug/Filter		50.000	1.00Filter/50.0	99.6	
Air	**1211086-CCV4 (Calibration Check)**									
	Chloride	0.99	49.650		ug/Filter		50.000	1.00Filter/50.0	99.3	
Air	**1211086-MS1 (Matrix Spike)**									
	Chloride	0.99	0.98700		ug/Filter		1.0000	1.00Filter/200.	96.1	
Air	**1211086-MS2 (Matrix Spike)**									
	Chloride	1.01	1.0100		ug/Filter		1.0000	1.00Filter/200.	100	
Air	**1211086-MS3 (Matrix Spike)**									

Chloride (Routine) by Ion Chromatography

		IResult	FResult	Qualifiers	Units	MRL	TrueValue	Prep I/F	Recovery	RPD
Air	**1211086-MS3 (Matrix Spike)**									
	Chloride	1.01	1.0140		ug/Filter		1.0000	1.00Filter/200.	99.6	
Air	**1211086-MSD1 (Matrix Spike Dup)**									
	Chloride	0.98	0.97900		ug/Filter		1.0000	1.00Filter/200.	95.3	
Air	**1211086-MSD2 (Matrix Spike Dup)**									
	Chloride	1.00	0.99800		ug/Filter		1.0000	1.00Filter/200.	98.9	
Air	**1211086-MSD3 (Matrix Spike Dup)**									
	Chloride	1.00	0.99900		ug/Filter		1.0000	1.00Filter/200.	98.1	
Air	**1211086-PS1 (Post Spike)**									
	Chloride	0.10	4.7500U	MRL-2	ug/Filter	5.0	5.0000	1.00Filter/50.0	95.0	
Air	**E124405-01 (MC3)**									
	Chloride	0.01	2.2U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-02 (MC4)**									
	Chloride	0.02	4.0U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-03 (YBA105FB)**									
	Chloride	0.02	3.8U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-04 (YBA256FB)**									
	Chloride	0.01	2.2U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-05 (YBATSP4FB)**									
	Chloride	0.01	1.6U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-06 (MC1)**									
	Chloride	1.06	210		ug/Filter	20		1.00Filter/200.		
Air	**E124405-07 (YBA104)**									
	Chloride	0.01	2.6U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-08 (YBA105)**									
	Chloride	0.02	3.4U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-09 (YBA106)**									

Chloride (Routine) by Ion Chromatography

		IResult	FResult	Qualifiers	Units	MRL	TrueValue	Prep I/F	Recovery	RPD
Air	**E124405-09 (YBA106)**									
Chloride		0.03	6.4U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-10 (YBA10C5)**									
Chloride		0.03	5.2U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-11 (YBA254)**									
Chloride		0.02	3.4U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-12 (YBA255)**									
Chloride		0.01	1.8U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-13 (YBA256)**									
Chloride		0.01	1.6U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-14 (YBA25C6)**									
Chloride		0.01	1.8U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-15 (YBATSC4)**									
Chloride		0.02	4.0U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-16 (YBATSP4)**									
Chloride		0.04	8.2U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-17 (YBATSP5)**									
Chloride		0.02	4.2U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-18 (YBATSP6)**									
Chloride		0.02	3.2U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-19 (MC2)**									
Chloride		0.34	68		ug/Filter	20		1.00Filter/200.		
Air	**E124405-20 (YBB104)**									
Chloride		0.01	1.8U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-21 (YBB105)**									
Chloride		0.02	3.0U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-22 (YBB106)**									

		IResult	FResult	Qualifiers	Units	MRL	TrueValue	Prep I/F	Recovery	RPD
Chloride (Routine) by Ion Chromatography										
Air	**E124405-22 (YBB106)**									
	Chloride	0.01	1.8U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-23 (YBB254)**									
	Chloride	0.03	6.8U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-24 (YBB255)**									
	Chloride	0.01	1.6U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-25 (YBB256)**									
	Chloride	0.01	2.6U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-26 (YBBTSP4)**									
	Chloride	0.01	2.4U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-27 (YBBTSP5)**									
	Chloride	0.02	4.2U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-28 (YBBTSP6)**									
	Chloride	0.02	3.6U		ug/Filter	20		1.00Filter/200.		

Sulfate (Routine) by Ion Chromatography

		IResult	FResult	Qualifiers	Units	MRL	TrueValue	Prep I/F	Recovery	RPD
Air	**1211086-BLK1 (Blank)**									
	Sulfate as SO4	0.02	0.90000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK2 (Blank)**									
	Sulfate as SO4	0.01	0.35000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK3 (Blank)**									
	Sulfate as SO4	0.01	0.25000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK4 (Blank)**									
	Sulfate as SO4	0.02	0.90000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK5 (Blank)**									
	Sulfate as SO4	0.02	0.90000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BLK6 (Blank)**									
	Sulfate as SO4	0.02	0.90000U		ug/Filter	5.0		1.00Filter/50.0		
Air	**1211086-BS1 (LCS)**									
	Sulfate as SO4	1.00	49.800		ug/Filter	5.0	50.000	1.00Filter/50.0	99.6	
Air	**1211086-CCV1 (Calibration Check)**									
	Sulfate as SO4	1.00	49.750		ug/Filter		50.000	1.00Filter/50.0	99.5	
Air	**1211086-CCV2 (Calibration Check)**									
	Sulfate as SO4	1.00	49.800		ug/Filter		50.000	1.00Filter/50.0	99.6	
Air	**1211086-CCV3 (Calibration Check)**									
	Sulfate as SO4	1.00	49.900		ug/Filter		50.000	1.00Filter/50.0	99.8	
Air	**1211086-CCV4 (Calibration Check)**									
	Sulfate as SO4	0.99	49.400		ug/Filter		50.000	1.00Filter/50.0	98.8	
Air	**1211086-MS1 (Matrix Spike)**									
	Sulfate as SO4	1.10	1.1020		ug/Filter		1.0000	1.00Filter/200.	96.2	
Air	**1211086-MS2 (Matrix Spike)**									
	Sulfate as SO4	1.13	1.1330		ug/Filter		1.0000	1.00Filter/200.	99.3	
Air	**1211086-MS3 (Matrix Spike)**									

		IResult	FResult	Qualifiers	Units	MRL	TrueValue	Prep I/F	Recovery	RPD
Sulfate (Routine) by Ion Chromatography										
Air	**1211086-MS3 (Matrix Spike)**									
	Sulfate as SO4	1.13	1.1290		ug/Filter		1.0000	1.00Filter/200.	98.6	
Air	**1211086-MSD1 (Matrix Spike Dup)**									
	Sulfate as SO4	1.10	1.1030		ug/Filter		1.0000	1.00Filter/200.	96.3	
Air	**1211086-MSD2 (Matrix Spike Dup)**									
	Sulfate as SO4	1.12	1.1240		ug/Filter		1.0000	1.00Filter/200.	98.4	
Air	**1211086-MSD3 (Matrix Spike Dup)**									
	Sulfate as SO4	1.11	1.1120		ug/Filter		1.0000	1.00Filter/200.	96.9	
Air	**1211086-PS1 (Post Spike)**									
	Sulfate as SO4	0.10	4.8500U	MRL-2	ug/Filter	5.0	5.0000	1.00Filter/50.0	97.0	
Air	**E124405-01 (MC3)**									
	Sulfate as SO4	0.01	2.6U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-02 (MC4)**									
	Sulfate as SO4	0.01	2.2U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-03 (YBA105FB)**									
	Sulfate as SO4	0.01	2.0U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-04 (YBA256FB)**									
	Sulfate as SO4	0.01	2.0U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-05 (YBATSP4FB)**									
	Sulfate as SO4	0.01	1.4U		ug/Filter	20		1.00Filter/200.		
Air	**E124405-06 (MC1)**									
	Sulfate as SO4	2.87	570		ug/Filter	20		1.00Filter/200.		
Air	**E124405-07 (YBA104)**									
	Sulfate as SO4	0.17	34		ug/Filter	20		1.00Filter/200.		
Air	**E124405-08 (YBA105)**									
	Sulfate as SO4	0.13	26		ug/Filter	20		1.00Filter/200.		
Air	**E124405-09 (YBA106)**									

	IResult	FResult	Qualifiers	Units	MRL	TrueValue	Prep I/F	Recovery	RPD
Sulfate (Routine) by Ion Chromatography									
Air E124405-09 (YBA106)									
Sulfate as SO4	0.19	37		ug/Filter	20		1.00Filter/200.		
Air E124405-10 (YBA10C5)									
Sulfate as SO4	0.14	28		ug/Filter	20		1.00Filter/200.		
Air E124405-11 (YBA254)									
Sulfate as SO4	0.14	27		ug/Filter	20		1.00Filter/200.		
Air E124405-12 (YBA255)									
Sulfate as SO4	0.12	24		ug/Filter	20		1.00Filter/200.		
Air E124405-13 (YBA256)									
Sulfate as SO4	0.09	17U		ug/Filter	20		1.00Filter/200.		
Air E124405-14 (YBA25C6)									
Sulfate as SO4	0.09	18U		ug/Filter	20		1.00Filter/200.		
Air E124405-15 (YBATSC4)									
Sulfate as SO4	0.18	36		ug/Filter	20		1.00Filter/200.		
Air E124405-16 (YBATSP4)									
Sulfate as SO4	0.28	56		ug/Filter	20		1.00Filter/200.		
Air E124405-17 (YBATSP5)									
Sulfate as SO4	0.15	29		ug/Filter	20		1.00Filter/200.		
Air E124405-18 (YBATSP6)									
Sulfate as SO4	0.12	24		ug/Filter	20		1.00Filter/200.		
Air E124405-19 (MC2)									
Sulfate as SO4	1.49	300		ug/Filter	20		1.00Filter/200.		
Air E124405-20 (YBB104)									
Sulfate as SO4	0.14	28		ug/Filter	20		1.00Filter/200.		
Air E124405-21 (YBB105)									
Sulfate as SO4	0.14	28		ug/Filter	20		1.00Filter/200.		
Air E124405-22 (YBB106)									

		IResult	FResult	Qualifiers	Units	MRL	TrueValue	Prep I/F	Recovery	RPD
Sulfate (Routine) by Ion Chromatography										
Air	**E124405-22 (YBB106)**									
	Sulfate as SO4	0.12	25		ug/Filter	20		1.00Filter/200.		
Air	**E124405-23 (YBB254)**									
	Sulfate as SO4	0.13	26		ug/Filter	20		1.00Filter/200.		
Air	**E124405-24 (YBB255)**									
	Sulfate as SO4	0.12	24		ug/Filter	20		1.00Filter/200.		
Air	**E124405-25 (YBB256)**									
	Sulfate as SO4	0.12	24		ug/Filter	20		1.00Filter/200.		
Air	**E124405-26 (YBBTSP4)**									
	Sulfate as SO4	0.15	29		ug/Filter	20		1.00Filter/200.		
Air	**E124405-27 (YBBTSP5)**									
	Sulfate as SO4	0.15	29		ug/Filter	20		1.00Filter/200.		
Air	**E124405-28 (YBBTSP6)**									
	Sulfate as SO4	0.14	29		ug/Filter	20		1.00Filter/200.		

Sequence: YELLOW BLUFF DUST STUDY, 13-0013
Operator: US Environmental Pro
Printed: 11/27/2012 12:47:59 PM

Title: TEST_1
Datasource: D9Y4FJN1_local
Location: ICS-5000\My Sequences
Timebase: ICS-5000
#Samples: 60

Created: 11/20/2012 2:32:29 PM by US Environmental Pro
Last Update: 11/26/2012 3:03:47 PM by US Environmental Pro

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	Rinse Water	Unknown	100	25.0	gradient anion	gradient anion	Finished
2	Rinse Water	Unknown	100	25.0	gradient anion	gradient anion	Finished
3	STD 1	Standard	1	25.0	gradient anion	gradient anion	Finished
4	STD 2	Standard	2	25.0	gradient anion	gradient anion	Finished
5	STD 3	Standard	3	25.0	gradient anion	gradient anion	Finished
6	STD 4	Standard	4	25.0	gradient anion	gradient anion	Finished
7	Rinse Water	Unknown	100	25.0	gradient anion	gradient anion	Finished
8	1211086-BLK1	Unknown	5	25.0	gradient anion	gradient anion	Finished
9	1211086-PS1	Unknown	6	25.0	gradient anion	gradient anion	Finished
10	1211086-CCV1	Unknown	7	25.0	gradient anion	gradient anion	Finished
11	1211086-BS1	Unknown	8	25.0	gradient anion	gradient anion	Finished
12	Rinse water	Unknown	100	25.0	gradient anion	gradient anion	Finished
13	1211086-BLK2	Unknown	9	25.0	gradient anion	gradient anion	Finished
14	1211086-BLK3	Unknown	10	25.0	gradient anion	gradient anion	Finished
15	E124405-01	Unknown	11	25.0	gradient anion	gradient anion	Finished
16	E124405-02	Unknown	12	25.0	gradient anion	gradient anion	Finished
17	E124405-03	Unknown	13	25.0	gradient anion	gradient anion	Finished
18	E124405-04	Unknown	14	25.0	gradient anion	gradient anion	Finished
19	E124405-05	Unknown	15	25.0	gradient anion	gradient anion	Finished
20	E124405-06	Unknown	16	25.0	gradient anion	gradient anion	Finished
21	E124405-07	Unknown	17	25.0	gradient anion	gradient anion	Finished
22	E124405-08	Unknown	18	25.0	gradient anion	gradient anion	Finished
23	E124405-09	Unknown	19	25.0	gradient anion	gradient anion	Finished
24	E124405-10	Unknown	20	25.0	gradient anion	gradient anion	Finished
25	1211086-MS1	Unknown	21	25.0	gradient anion	gradient anion	Finished
26	1211086-MSD1	Unknown	22	25.0	gradient anion	gradient anion	Finished
27	Rinse Water	Unknown	100	25.0	gradient anion	gradient anion	Finished
28	1211086-BLK4	Unknown	5	25.0	gradient anion	gradient anion	Finished
29	1211086-CCV2	Unknown	7	25.0	gradient anion	gradient anion	Finished
30	E124405-11	Unknown	23	25.0	gradient anion	gradient anion	Finished
31	E124405-12	Unknown	24	25.0	gradient anion	gradient anion	Finished
32	E124405-13	Unknown	25	25.0	gradient anion	gradient anion	Finished
33	E124405-14	Unknown	26	25.0	gradient anion	gradient anion	Finished
34	E124405-15	Unknown	27	25.0	gradient anion	gradient anion	Finished
35	E124405-16	Unknown	28	25.0	gradient anion	gradient anion	Finished
36	E124405-17	Unknown	29	25.0	gradient anion	gradient anion	Finished
37	E124405-18	Unknown	30	25.0	gradient anion	gradient anion	Finished
38	E124405-19	Unknown	31	25.0	gradient anion	gradient anion	Finished
39	E124405-20	Unknown	32	25.0	gradient anion	gradient anion	Finished
40	1211086-MS2	Unknown	33	25.0	gradient anion	gradient anion	Finished
41	1211086-MSD2	Unknown	34	25.0	gradient anion	gradient anion	Finished
42	Rinse Water	Unknown	100	25.0	gradient anion	gradient anion	Finished

Title: TEST_1
Datasource: D9Y4FJN1_local
Location: ICS-5000\My Sequences
Timebase: ICS-5000
#Samples: 60
Created: 11/20/2012 2:32:29 PM by US Environmental Pro
Last Update: 11/26/2012 3:03:47 PM by US Environmental Pro

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
43	1211086-BLK5	Unknown	5	25.0	gradient anion	gradient anion	Finished
44	1211086-CCV3	Unknown	7	25.0	gradient anion	gradient anion	Finished
45	E124405-21	Unknown	35	25.0	gradient anion	gradient anion	Finished
46	E124405-22	Unknown	36	25.0	gradient anion	gradient anion	Finished
47	E124405-23	Unknown	37	25.0	gradient anion	gradient anion	Finished
48	E124405-24	Unknown	38	25.0	gradient anion	gradient anion	Finished
49	E124405-25	Unknown	39	25.0	gradient anion	gradient anion	Finished
50	E124405-26	Unknown	40	25.0	gradient anion	gradient anion	Finished
51	E124405-27	Unknown	41	25.0	gradient anion	gradient anion	Finished
52	E124405-28	Unknown	42	25.0	gradient anion	gradient anion	Finished
53	1211086-MS3	Unknown	43	25.0	gradient anion	gradient anion	Finished
54	1211086-MSD3	Unknown	44	25.0	gradient anion	gradient anion	Finished
55	Rinse Water	Unknown	100	25.0	gradient anion	gradient anion	Finished
56	1211086-BLK6	Unknown	5	25.0	gradient anion	gradient anion	Finished
57	1211086-CCV4	Unknown	7	25.0	gradient anion	gradient anion	Finished
58	1000 ppm CL Line. CK.	Unknown	45	25.0	gradient anion	gradient anion	Finished
59	1000 ppm SO4 Line. CK.	Unknown	46	25.0	gradient anion	gradient anion	Finished
60	Shutdown	Blank	1	25.0	Shut Down	gradient anion	Interrupted

Title: TEST_1
Datasource: D9Y4FJN1_local
Location: ICS-5000\My Sequences
Timebase: ICS-5000
#Samples: 60
Created: 11/20/2012 2:32:29 PM by US Environmental Pro
Last Update: 11/26/2012 3:03:47 PM by US Environmental Pro

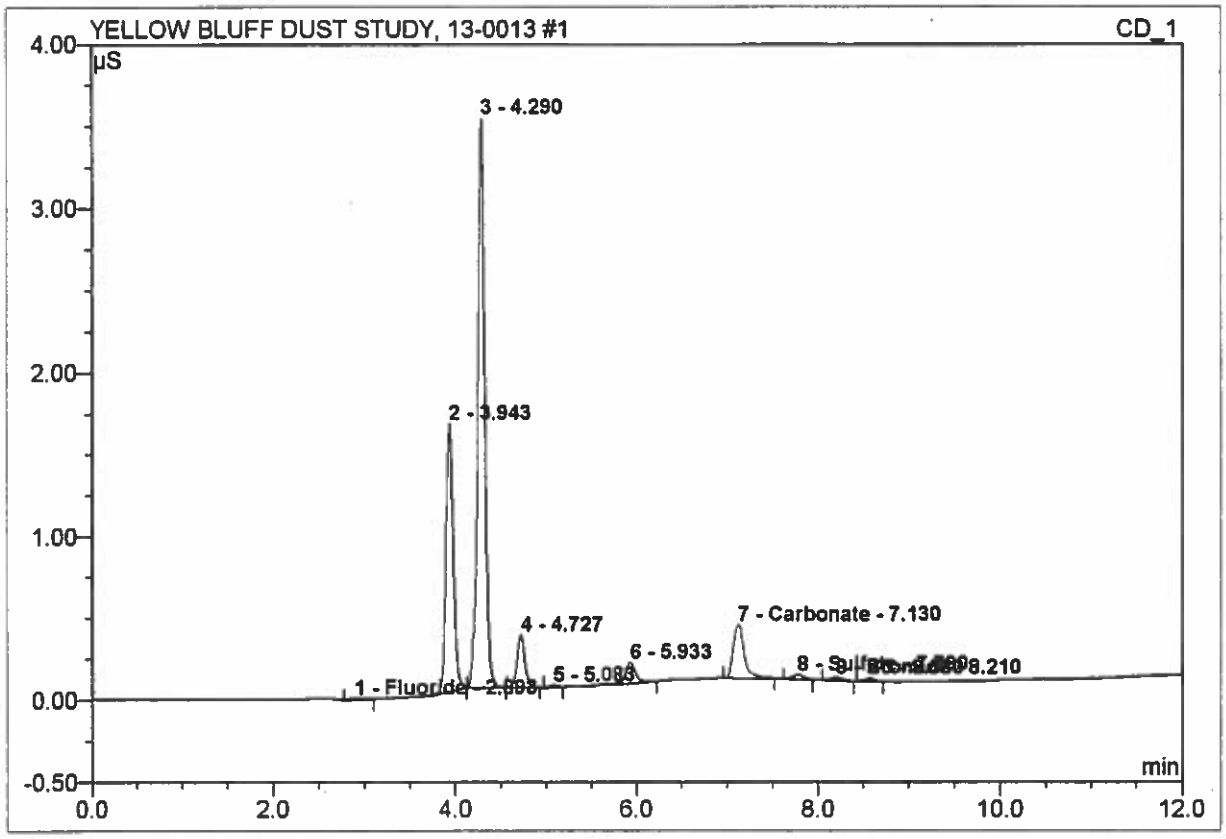
No.	Name	Inj. Date/Time	Weight	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	Rinse Water	11/26/2012 3:15:53 PM	1.0000	1.0000	1.0000		06	
2	Rinse Water	11/26/2012 3:37:06 PM	1.0000	1.0000	1.0000		06	
3	STD 1	11/26/2012 3:58:19 PM	1.0000	1.0000	1.0000		06	
4	STD 2	11/26/2012 4:19:32 PM	1.0000	1.0000	1.0000		06	
5	STD 3	11/26/2012 4:40:45 PM	1.0000	1.0000	1.0000		06	
6	STD 4	11/26/2012 5:01:58 PM	1.0000	1.0000	1.0000		06	
7	Rinse Water	11/26/2012 5:23:10 PM	1.0000	1.0000	1.0000		06	
8	1211086-BLK1	11/26/2012 5:44:23 PM	1.0000	1.0000	1.0000		06	
9	1211086-PS1	11/26/2012 6:05:36 PM	1.0000	1.0000	1.0000		06	
10	1211086-CCV1	11/26/2012 6:26:49 PM	1.0000	1.0000	1.0000		06	
11	1211086-BS1	11/26/2012 6:48:02 PM	1.0000	1.0000	1.0000		06	
12	Rinse water	11/26/2012 7:09:15 PM	1.0000	1.0000	1.0000		06	
13	1211086-BLK2	11/26/2012 7:30:28 PM	1.0000	1.0000	1.0000		06	
14	1211086-BLK3	11/26/2012 7:51:41 PM	1.0000	1.0000	1.0000		06	
15	E124405-01	11/26/2012 8:12:54 PM	1.0000	1.0000	1.0000		06	
16	E124405-02	11/26/2012 8:34:07 PM	1.0000	1.0000	1.0000		06	
17	E124405-03	11/26/2012 8:55:20 PM	1.0000	1.0000	1.0000		06	
18	E124405-04	11/26/2012 9:16:33 PM	1.0000	1.0000	1.0000		06	
19	E124405-05	11/26/2012 9:37:45 PM	1.0000	1.0000	1.0000		06	
20	E124405-06	11/26/2012 9:58:58 PM	1.0000	1.0000	1.0000		06	
21	E124405-07	11/26/2012 10:20:11 PM	1.0000	1.0000	1.0000		06	
22	E124405-08	11/26/2012 10:41:24 PM	1.0000	1.0000	1.0000		06	
23	E124405-09	11/26/2012 11:02:37 PM	1.0000	1.0000	1.0000		06	
24	E124405-10	11/26/2012 11:23:50 PM	1.0000	1.0000	1.0000		06	
25	1211086-MS1	11/26/2012 11:45:03 PM	1.0000	1.0000	1.0000		06	
26	1211086-MSD1	11/27/2012 12:06:16 AM	1.0000	1.0000	1.0000		06	
27	Rinse Water	11/27/2012 12:27:29 AM	1.0000	1.0000	1.0000		06	
28	1211086-BLK4	11/27/2012 12:48:41 AM	1.0000	1.0000	1.0000		06	
29	1211086-CCV2	11/27/2012 1:09:54 AM	1.0000	1.0000	1.0000		06	
30	E124405-11	11/27/2012 1:31:07 AM	1.0000	1.0000	1.0000		06	
31	E124405-12	11/27/2012 1:52:20 AM	1.0000	1.0000	1.0000		06	
32	E124405-13	11/27/2012 2:13:33 AM	1.0000	1.0000	1.0000		06	
33	E124405-14	11/27/2012 2:34:46 AM	1.0000	1.0000	1.0000		06	
34	E124405-15	11/27/2012 2:55:59 AM	1.0000	1.0000	1.0000		06	
35	E124405-16	11/27/2012 3:17:12 AM	1.0000	1.0000	1.0000		06	
36	E124405-17	11/27/2012 3:38:25 AM	1.0000	1.0000	1.0000		06	
37	E124405-18	11/27/2012 3:59:37 AM	1.0000	1.0000	1.0000		06	
38	E124405-19	11/27/2012 4:20:51 AM	1.0000	1.0000	1.0000		06	
39	E124405-20	11/27/2012 4:42:04 AM	1.0000	1.0000	1.0000		06	
40	1211086-MS2	11/27/2012 5:03:16 AM	1.0000	1.0000	1.0000		06	
41	1211086-MSD2	11/27/2012 5:24:29 AM	1.0000	1.0000	1.0000		06	
42	Rinse Water	11/27/2012 5:45:42 AM	1.0000	1.0000	1.0000		06	

Title: TEST_1
Datasource: D9Y4FJN1_local
Location: ICS-5000\My Sequences
Timebase: ICS-5000
#Samples: 60
Created: 11/20/2012 2:32:29 PM by US Environmental Pro
Last Update: 11/26/2012 3:03:47 PM by US Environmental Pro

No.	Name	Inj. Date/Time	Weight	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
43	1211086-BLK5	11/27/2012 6:06:55 AM	1.0000	1.0000	1.0000		06	
44	1211086-CCV3	11/27/2012 6:28:08 AM	1.0000	1.0000	1.0000		06	
45	E124405-21	11/27/2012 6:49:21 AM	1.0000	1.0000	1.0000		06	
46	E124405-22	11/27/2012 7:10:34 AM	1.0000	1.0000	1.0000		06	
47	E124405-23	11/27/2012 7:31:47 AM	1.0000	1.0000	1.0000		06	
48	E124405-24	11/27/2012 7:53:01 AM	1.0000	1.0000	1.0000		06	
49	E124405-25	11/27/2012 8:14:13 AM	1.0000	1.0000	1.0000		06	
50	E124405-26	11/27/2012 8:35:27 AM	1.0000	1.0000	1.0000		06	
51	E124405-27	11/27/2012 8:56:40 AM	1.0000	1.0000	1.0000		06	
52	E124405-28	11/27/2012 9:17:53 AM	1.0000	1.0000	1.0000		06	
53	1211086-MS3	11/27/2012 9:39:05 AM	1.0000	1.0000	1.0000		06	
54	1211086-MSD3	11/27/2012 10:00:18 AM	1.0000	1.0000	1.0000		06	
55	Rinse Water	11/27/2012 10:21:31 AM	1.0000	1.0000	1.0000		06	
56	1211086-BLK6	11/27/2012 10:42:44 AM	1.0000	1.0000	1.0000		06	
57	1211086-CCV4	11/27/2012 11:03:57 AM	1.0000	1.0000	1.0000		06	
58	1000 ppm CL Line. CK.	11/27/2012 11:25:11 AM	1.0000	1.0000	1.0000		06	
59	1000 ppm SO4 Line. CK.	11/27/2012 11:46:24 AM	1.0000	1.0000	1.0000		06	
60	Shutdown	11/27/2012 11:58:30 AM	1.0000	1.0000	1.0000		06	

1 Rinse Water

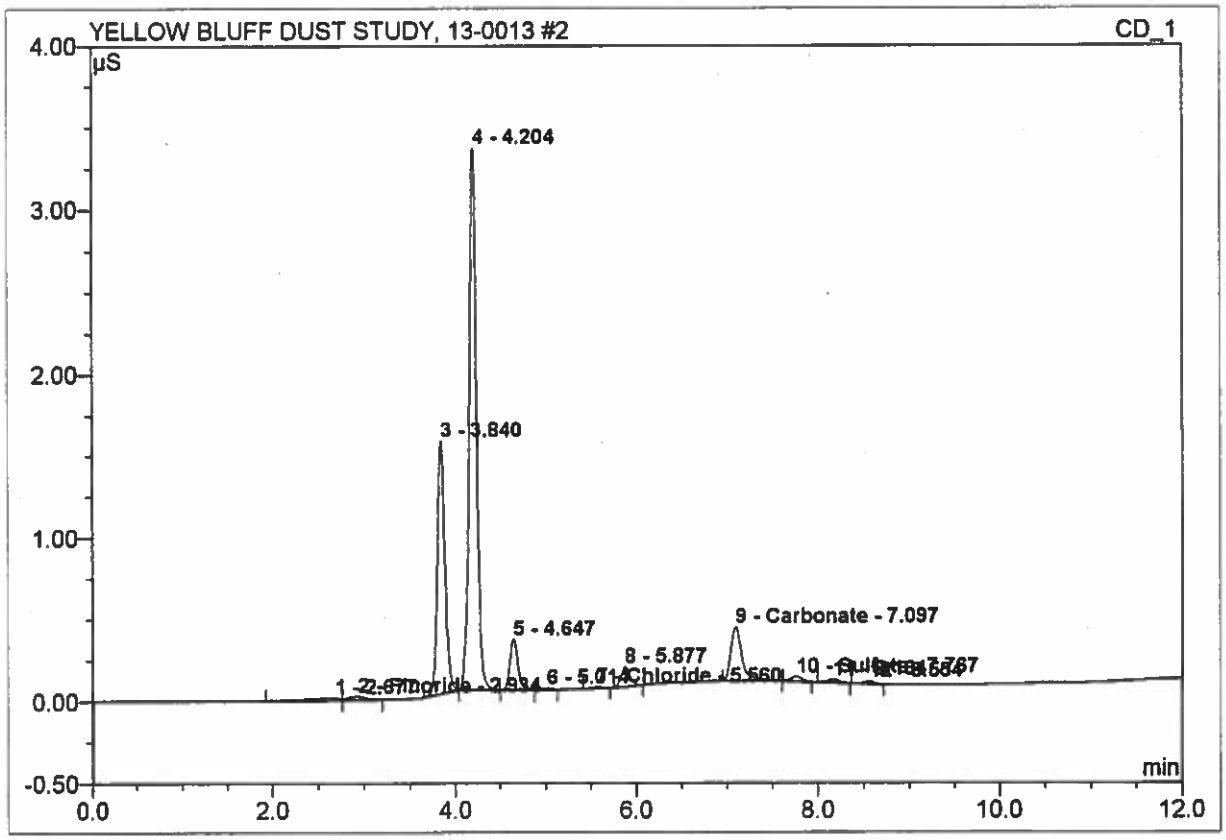
Sample Name:	**Rinse Water**	*Injection Volume:*	**25.0**
Vial Number:	**100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 15:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.89	Fluoride	0.010	0.002	0.28	0.286	BMB
2	3.94	n.a.	1.641	0.151	26.87	n.a.	BMb
3	4.29	n.a.	3.474	0.307	54.73	n.a.	bMB
4	4.73	n.a.	0.323	0.032	5.62	n.a.	BMB
5	5.08	n.a.	0.011	0.001	0.18	n.a.	BMB
6	5.93	n.a.	0.126	0.015	2.72	n.a.	BMB
7	7.13	Carbonate	0.328	0.045	8.03	n.a.	BMB
8	7.79	Sulfate	0.031	0.004	0.72	0.017	BMB
9	8.21	Bromide	0.019	0.003	0.51	n.a.	BMB
10	8.58	n.a.	0.018	0.002	0.35	n.a.	BMB
Total:			5.980	0.562	100.00	0.303	

2 Rinse Water

Sample Name:	**Rinse Water**	*Injection Volume:*	**25.0**
Vial Number:	**100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 15:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

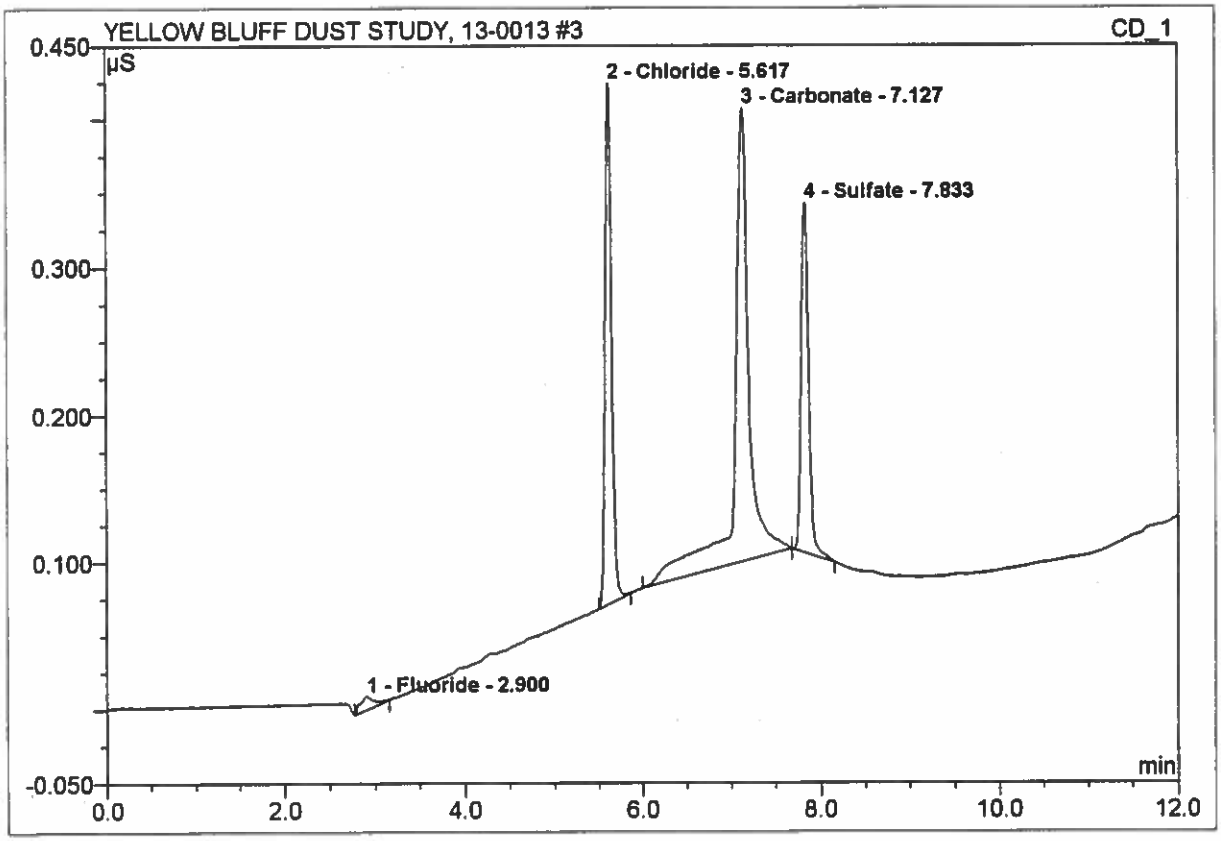


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.014	0.005	0.92	n.a.	BMB
2	2.93	Fluoride	0.020	0.005	0.80	0.833	BMB
3	3.84	n.a.	1.548	0.152	26.49	n.a.	BMB
4	4.20	n.a.	3.305	0.308	53.63	n.a.	bMB
5	4.65	n.a.	0.310	0.032	5.49	n.a.	BMB
6	5.01	n.a.	0.011	0.001	0.19	n.a.	BMB
7	5.56	Chloride	0.010	0.001	0.18	0.003	BMB
8	5.88	n.a.	0.121	0.014	2.39	n.a.	BMB
9	7.10	Carbonate	0.330	0.047	8.23	n.a.	BMB
10	7.77	Sulfate	0.030	0.004	0.72	0.017	BMB
11	8.16	n.a.	0.021	0.003	0.58	n.a.	BMB

12	8.55	n.a.	0.018	0.002	0.38	n.a.	BMB
Total:			5.738	0.574	100.00	0.854	

3 STD 1

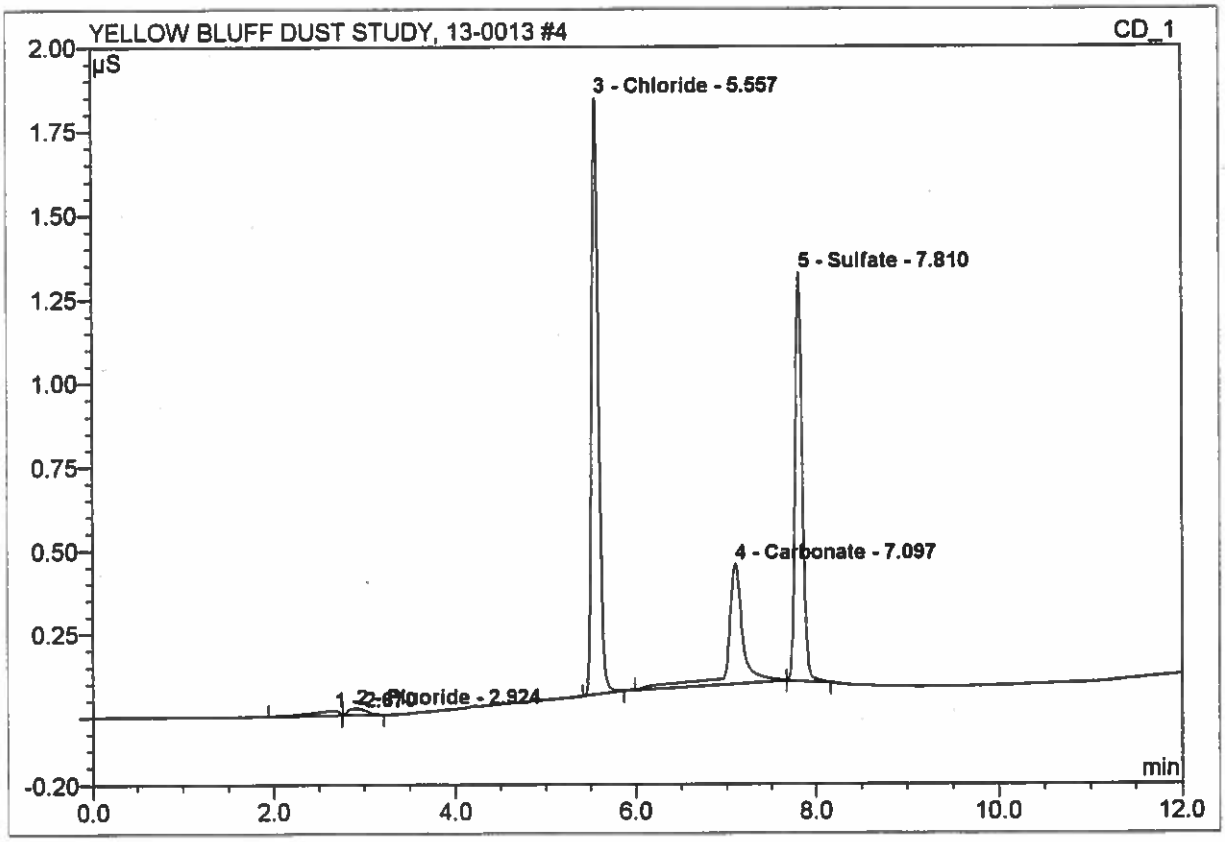
Sample Name:	**STD 1**	*Injection Volume:*	**25.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 15:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.90	Fluoride	0.009	0.002	1.45	0.298	BMB
2	5.62	Chloride	0.353	0.030	26.43	0.094	BMB
3	7.13	Carbonate	0.307	0.059	51.93	n.a.	BMB
4	7.83	Sulfate	0.237	0.023	20.19	0.097	bMB
Total:			0.906	0.114	100.00	0.489	

4 STD 2

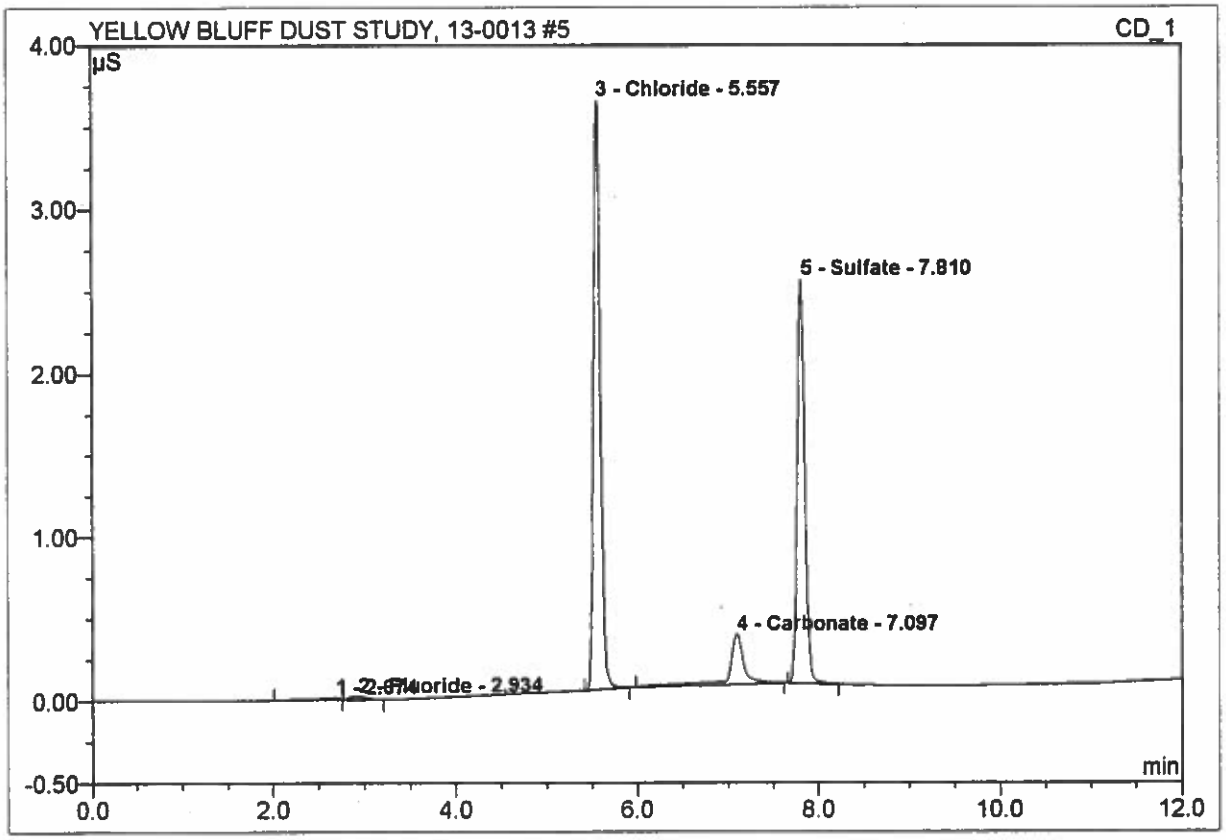
Sample Name:	STD 2	*Injection Volume:*	25.0
Vial Number:	2	*Channel:*	CD_1
Sample Type:	standard	*Wavelength:*	n.a.
Control Program:	gradient anion	*Bandwidth:*	n.a.
Quantif. Method:	gradient anion	*Dilution Factor:*	1.0000
Recording Time:	11/26/2012 16:19	*Sample Weight:*	1.0000
Run Time (min):	12.00	*Sample Amount:*	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.013	0.005	1.45	n.a.	BMB
2	2.92	Fluoride	0.020	0.005	1.30	0.822	BMB
3	5.56	Chloride	1.781	0.156	44.76	0.490	BMB
4	7.10	Carbonate	0.359	0.067	19.22	n.a.	BMb
5	7.81	Sulfate	1.221	0.116	33.26	0.491	bMB
Total:			3.393	0.349	100.00	1.804	

5 STD 3

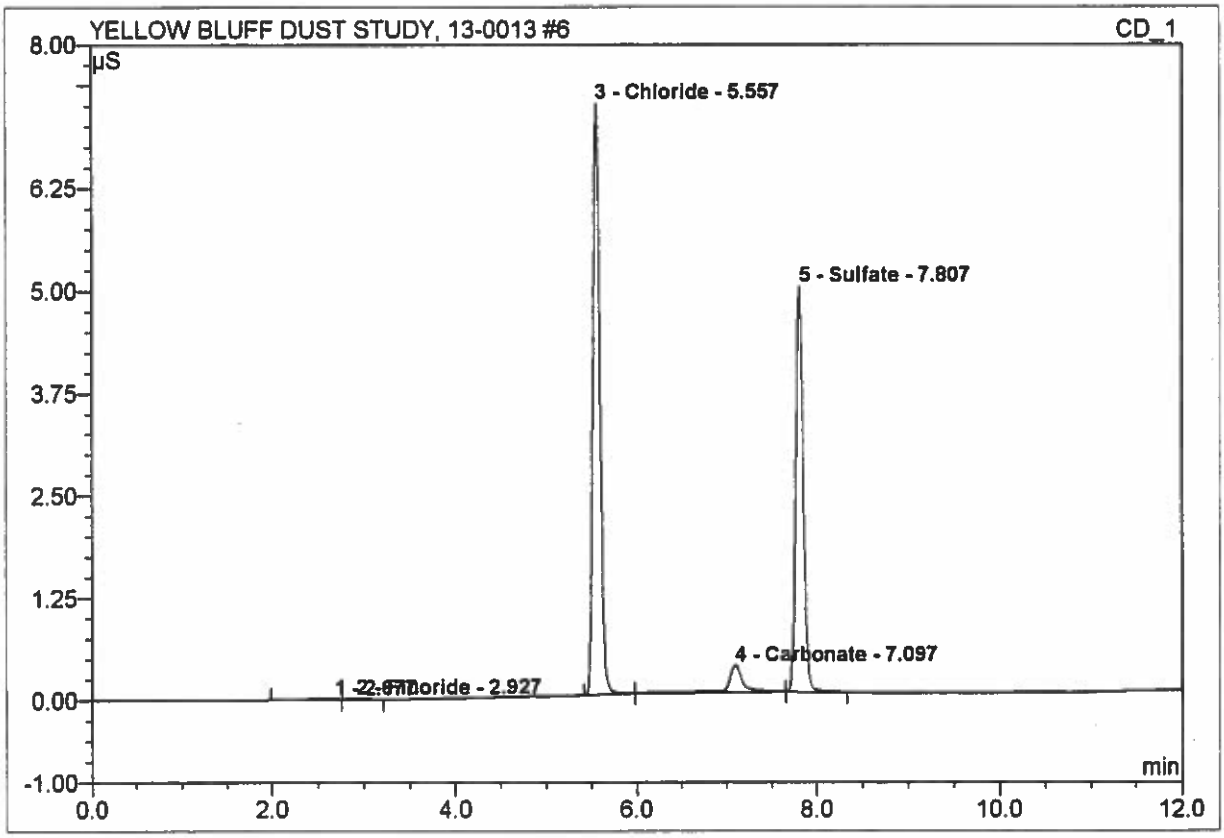
Sample Name:	**STD 3**	*Injection Volume:*	**25.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 16:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.013	0.005	0.75	n.a.	BMB
2	2.93	Fluoride	0.019	0.004	0.71	0.795	BMB
3	5.56	Chloride	3.595	0.317	51.30	0.993	BMB
4	7.10	Carbonate	0.307	0.057	9.21	n.a.	BMB
5	7.81	Sulfate	2.467	0.235	38.03	0.995	BMB
Total:			6.401	0.617	100.00	2.783	

6 STD 4

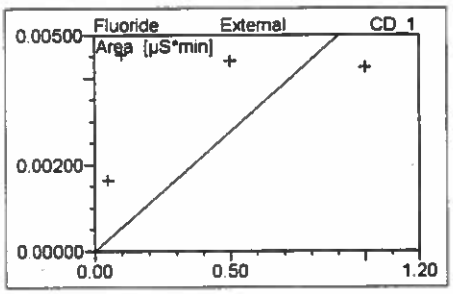
Sample Name:	**STD 4**	*Injection Volume:*	**25.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 17:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

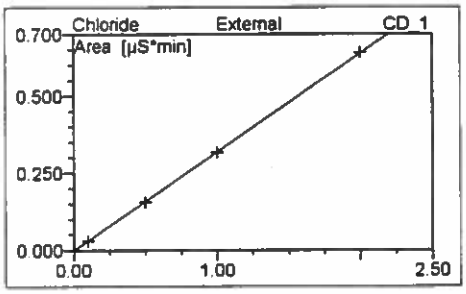


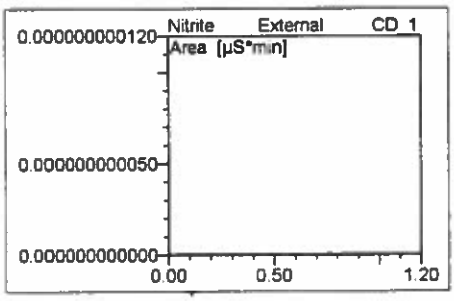
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.012	0.004	0.37	n.a.	BMB
2	2.93	Fluoride	0.018	0.004	0.36	0.768	BMB
3	5.56	Chloride	7.213	0.639	54.09	2.006	BMB
4	7.10	Carbonate	0.330	0.061	5.14	n.a.	bMb
5	7.81	Sulfate	4.953	0.473	40.04	2.005	bMB
Total:			12.527	1.182	100.00	4.779	

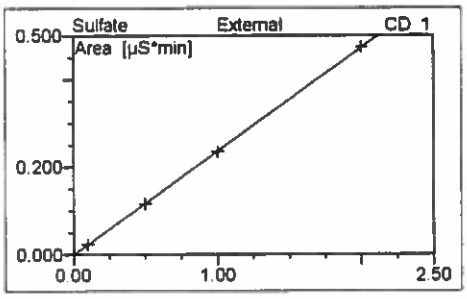
6 STD 4

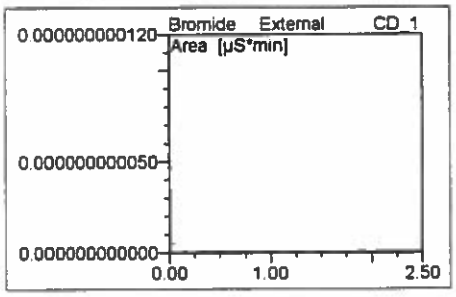
Sample Name:	STD 4	*Injection Volume:*	25.0
Vial Number:	4	*Channel:*	CD_1
Sample Type:	standard	*Wavelength:*	n.a.
Control Program:	gradient anion	*Bandwidth:*	n.a.
Quantif. Method:	gradient anion	*Dilution Factor:*	1.0000
Recording Time:	################	*Sample Weight:*	1.0000
Run Time (min):	12.00	*Sample Amount:*	1.0000

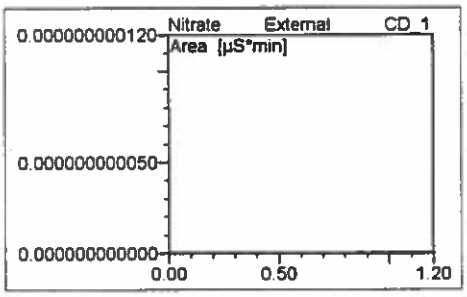


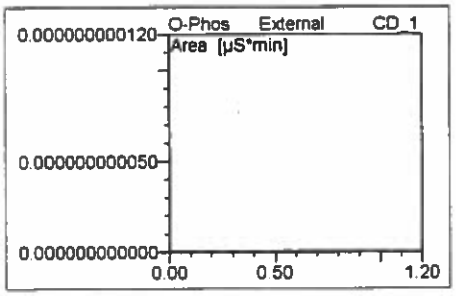








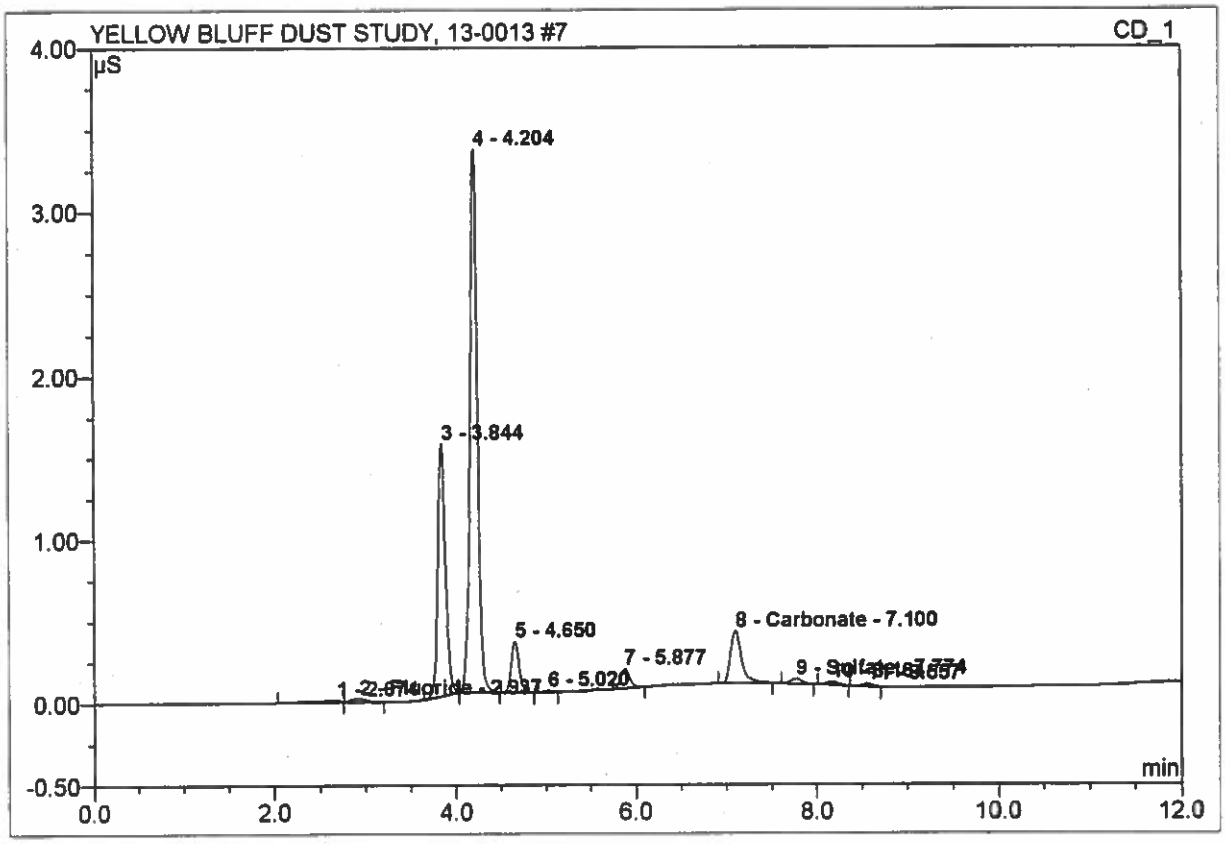




No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.68	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.93	Fluoride	Lin	4	-287.1000	0.0000	0.0055	0.0000
3	5.56	Chloride	Lin	4	99.9895	0.0000	0.3187	0.0000
4	7.10	Carbonate	Lin	4	n.a.	0.0000	0.0000	0.0000
5	7.81	Sulfate	Lin	4	99.9933	0.0000	0.2360	0.0000
Average:					-29.0391	0.0000	0.1400	0.0000

7 Rinse Water

Sample Name:	**Rinse Water**	*Injection Volume:*	**25.0**
Vial Number:	**100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 17:23**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

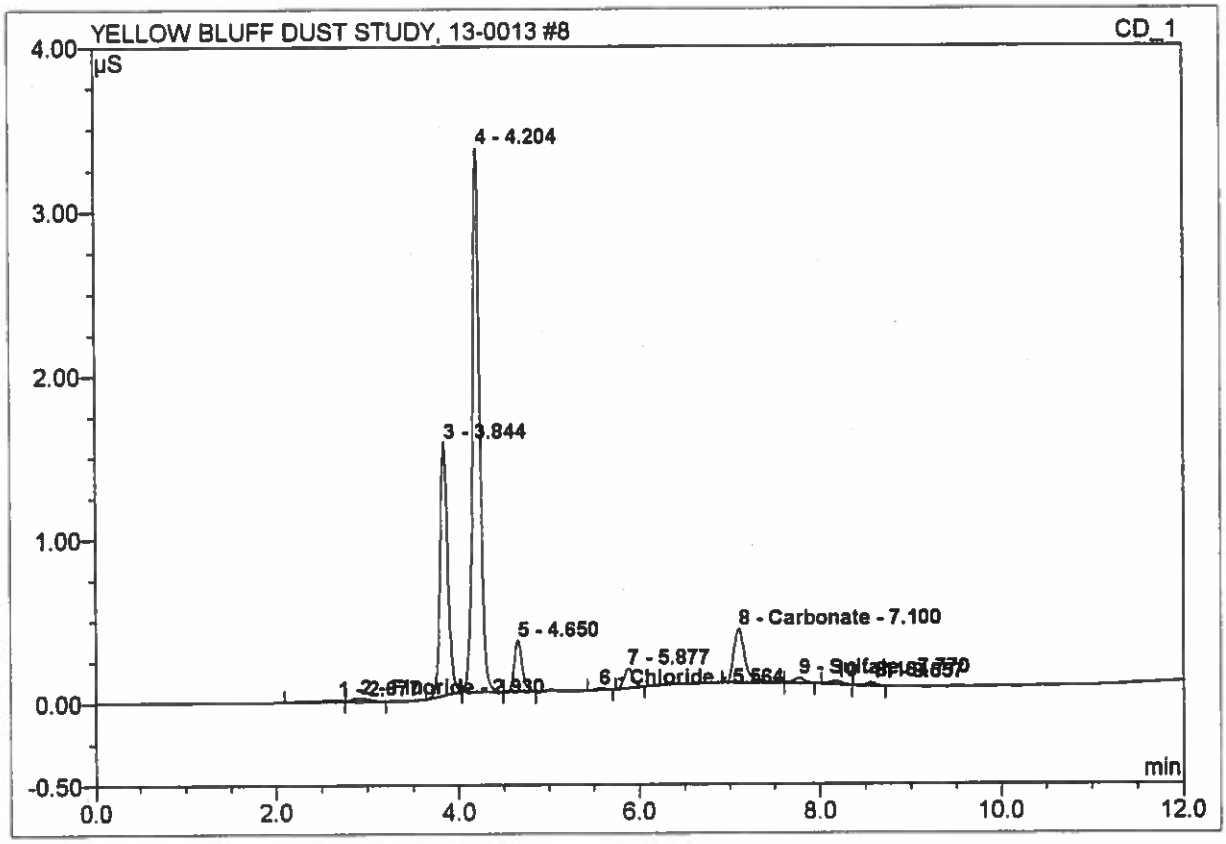


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.013	0.004	0.76	n.a.	BMB
2	2.94	Fluoride	0.018	0.004	0.74	0.761	BMB
3	3.84	n.a.	1.546	0.152	26.75	n.a.	BMb
4	4.20	n.a.	3.313	0.308	54.11	n.a.	bMB
5	4.65	n.a.	0.312	0.032	5.55	n.a.	BMB
6	5.02	n.a.	0.011	0.001	0.18	n.a.	BMB
7	5.88	n.a.	0.121	0.014	2.40	n.a.	BMB
8	7.10	Carbonate	0.320	0.045	7.88	n.a.	BMB
9	7.77	Sulfate	0.031	0.004	0.74	0.018	BMB
10	8.16	n.a.	0.019	0.003	0.51	n.a.	BMB
11	8.56	n.a.	0.018	0.002	0.38	n.a.	BMB

Total:		5.722	0.570	100.00	0.778

8 1211086-BLK1

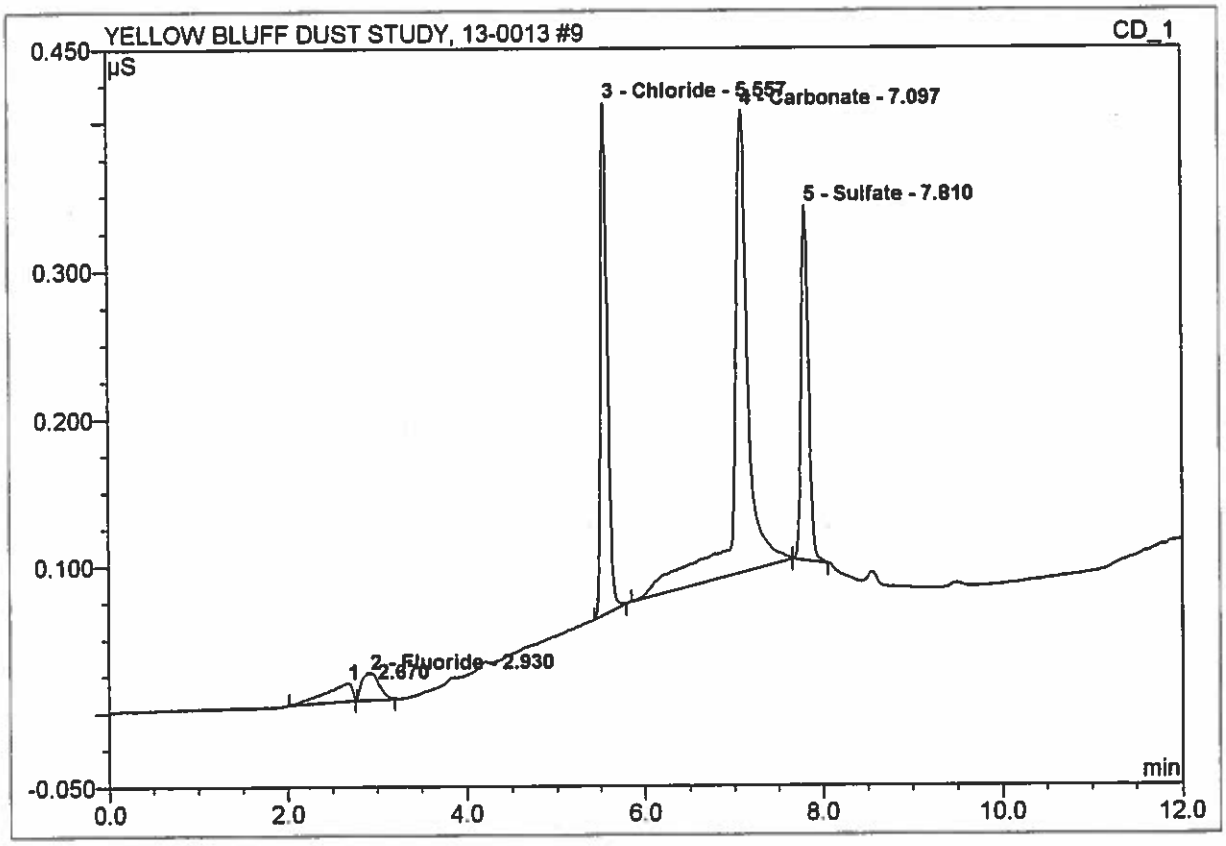
Sample Name:	**1211086-BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 17:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.012	0.004	0.70	n.a.	BMB
2	2.93	Fluoride	0.018	0.004	0.73	0.760	BMB
3	3.84	n.a.	1.547	0.152	26.62	n.a.	BMb
4	4.20	n.a.	3.316	0.309	53.93	n.a.	bMB
5	4.65	n.a.	0.312	0.031	5.50	n.a.	BMB
6	5.56	Chloride	0.011	0.001	0.19	0.003	BMB
7	5.88	n.a.	0.121	0.014	2.39	n.a.	BMB
8	7.10	Carbonate	0.327	0.047	8.22	n.a.	BMB
9	7.77	Sulfate	0.031	0.004	0.75	0.018	BMB
10	8.16	n.a.	0.020	0.003	0.54	n.a.	BMB
11	8.56	n.a.	0.020	0.002	0.42	n.a.	BMB

9 1211086-PS1

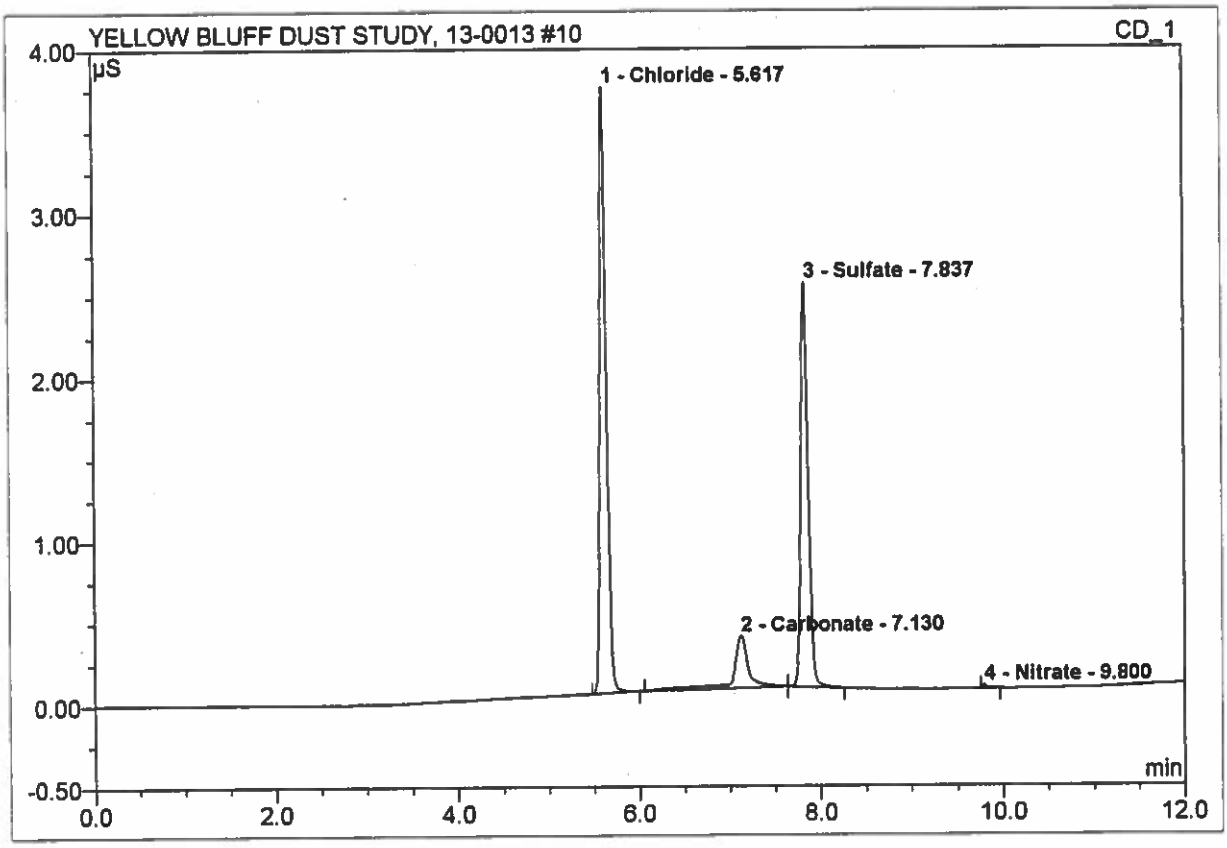
Sample Name:	**1211086-PS1**	*Injection Volume:*	**25.0**
Vial Number:	**6**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 18:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.012	0.004	3.55	n.a.	BMB
2	2.93	Fluoride	0.018	0.004	3.39	0.751	BMB
3	5.56	Chloride	0.346	0.030	24.68	0.095	BMB
4	7.10	Carbonate	0.313	0.061	49.73	n.a.	BMB
5	7.81	Sulfate	0.240	0.023	18.65	0.097	bMB
Total:			0.930	0.123	100.00	0.943	

10 1211086-CCV1

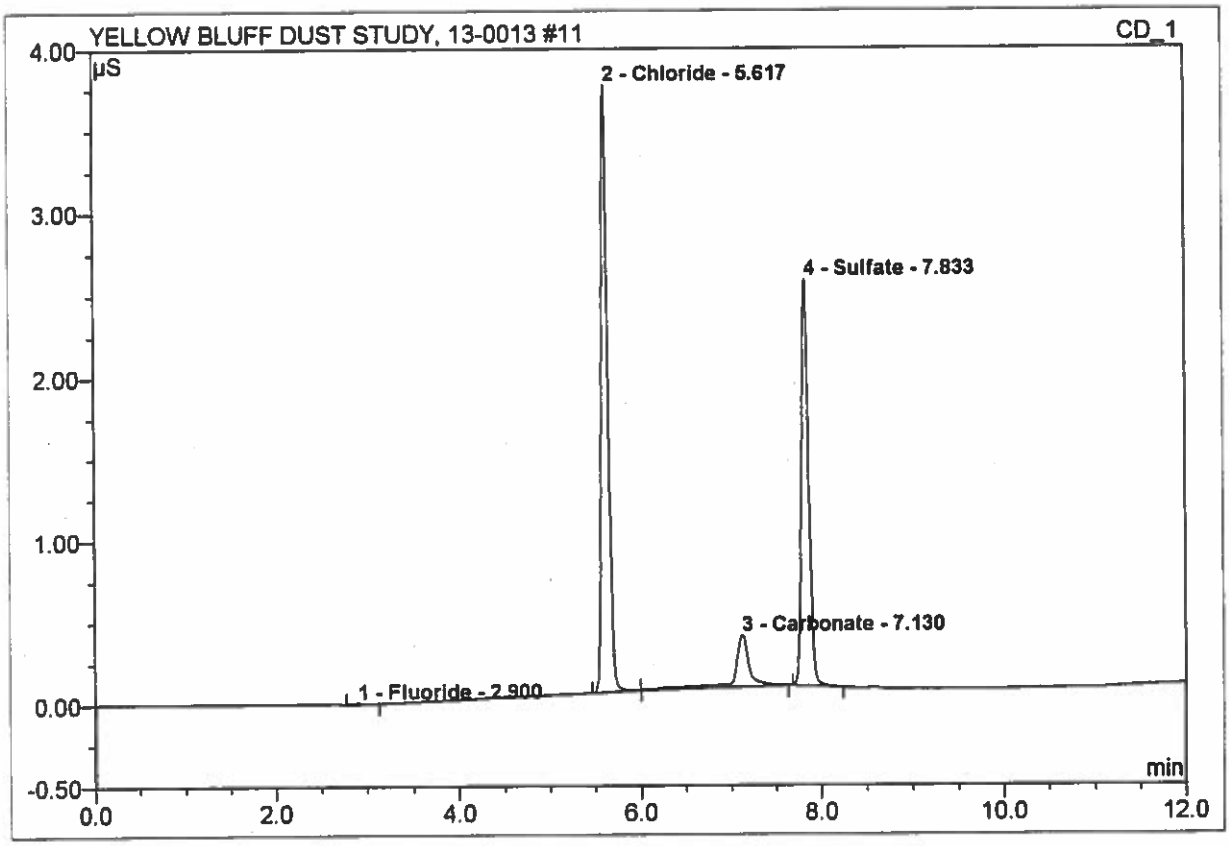
Sample Name:	**1211086-CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 18:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	5.62	Chloride	3.696	0.316	51.75	0.993	BMB
2	7.13	Carbonate	0.319	0.059	9.67	n.a.	BMb
3	7.84	Sulfate	2.470	0.235	38.38	0.995	bMB
4	9.80	Nitrate	0.026	0.001	0.21	n.a.	BMB
Total:			6.511	0.612	100.00	1.988	

11 1211086-BS1

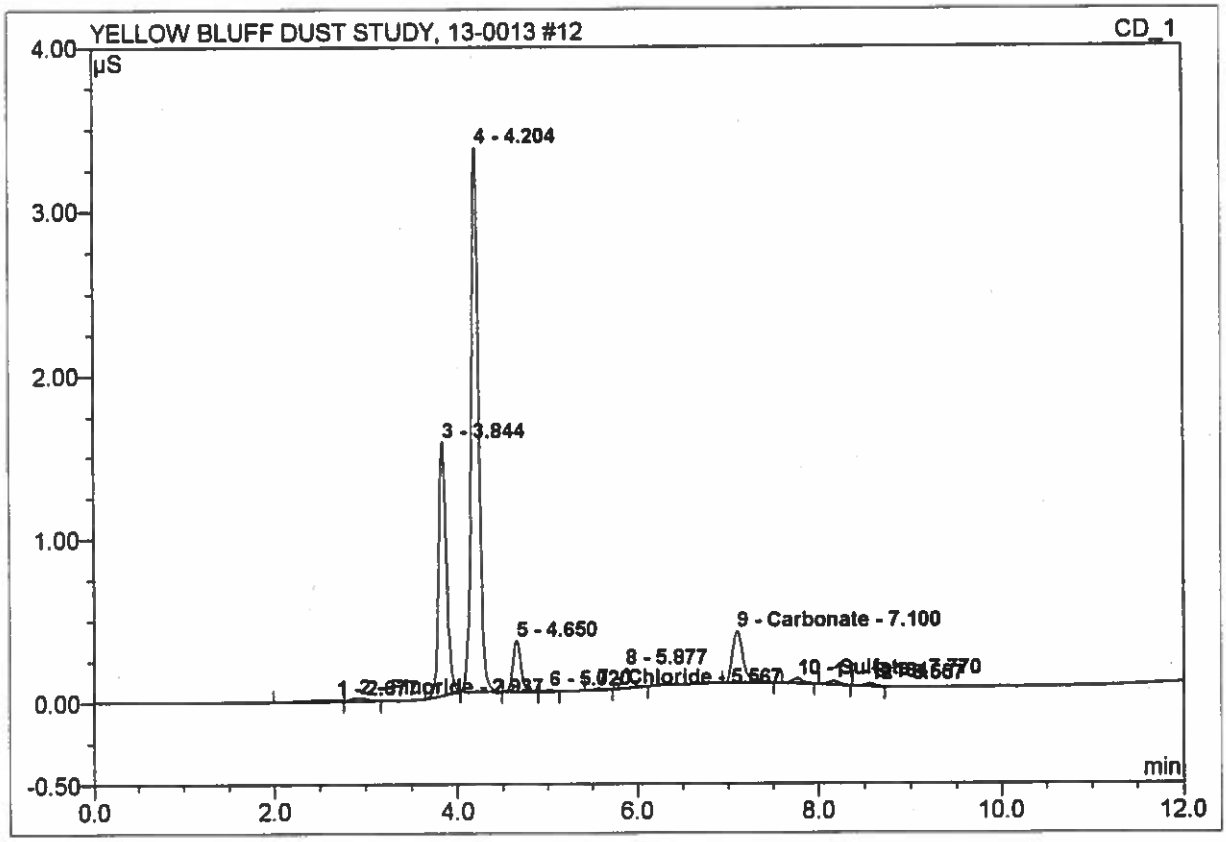
Sample Name:	**1211086-BS1**	*Injection Volume:*	**25.0**
Vial Number:	**8**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 18:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.90	Fluoride	0.008	0.001	0.23	0.249	BMB
2	5.62	Chloride	3.704	0.317	51.83	0.995	BMb
3	7.13	Carbonate	0.318	0.058	9.52	n.a.	bMB
4	7.83	Sulfate	2.480	0.235	38.42	0.996	BMB
Total:			6.510	0.612	100.00	2.240	

12 Rinse water

Sample Name:	**Rinse water**	*Injection Volume:*	**25.0**
Vial Number:	**100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 19:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

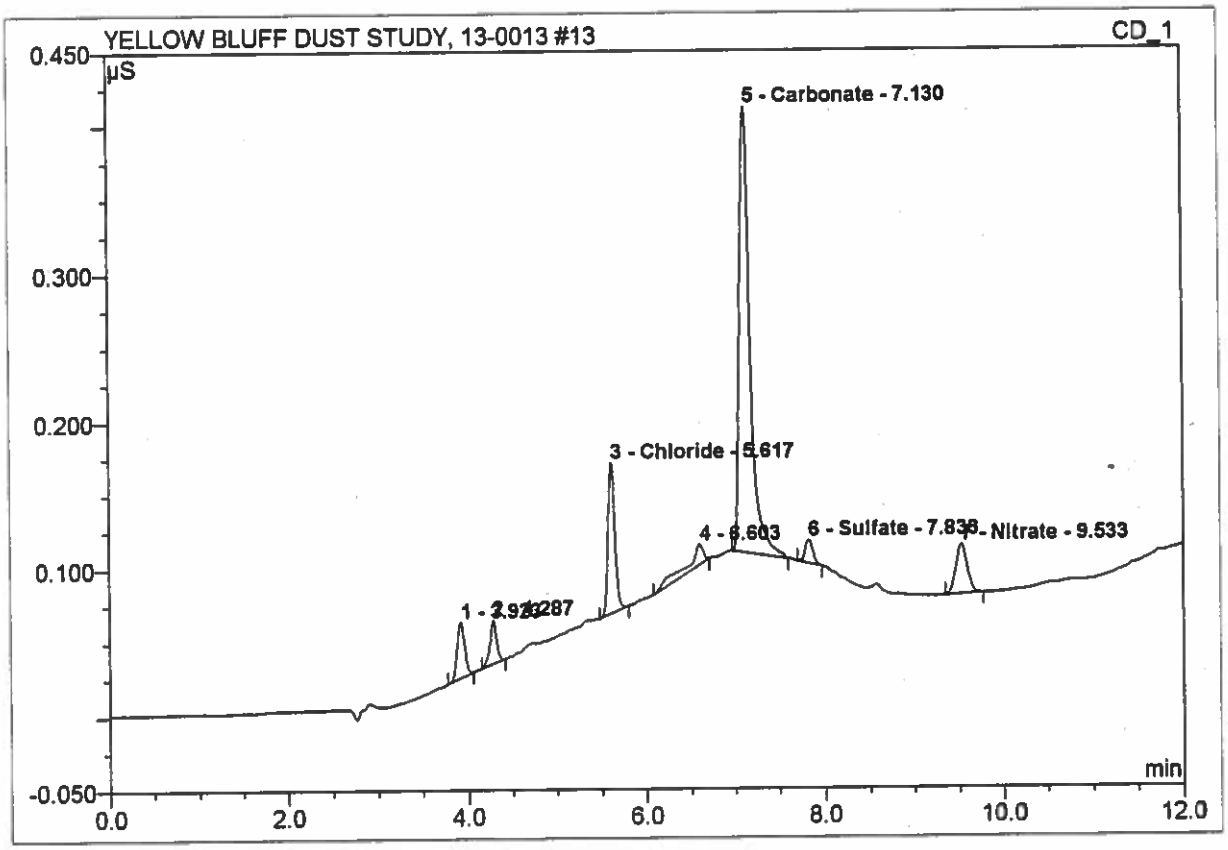


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.012	0.004	0.76	n.a.	BMB
2	2.94	Fluoride	0.018	0.004	0.71	0.735	BMB
3	3.84	n.a.	1.551	0.153	26.75	n.a.	BMB
4	4.20	n.a.	3.321	0.309	54.09	n.a.	bMB
5	4.65	n.a.	0.313	0.032	5.54	n.a.	BMB
6	5.02	n.a.	0.011	0.001	0.18	n.a.	BMB
7	5.57	Chloride	0.010	0.001	0.18	0.003	BMB
8	5.88	n.a.	0.121	0.014	2.44	n.a.	BMB
9	7.10	Carbonate	0.317	0.044	7.74	n.a.	BMB
10	7.77	Sulfate	0.030	0.004	0.69	0.017	BMB
11	8.16	n.a.	0.020	0.003	0.53	n.a.	BMB

12	8.56	n.a.	0.018	0.002	0.39	n.a.	BMB
Total:			5.743	0.572	100.00	0.755	

13 1211086-BLK2

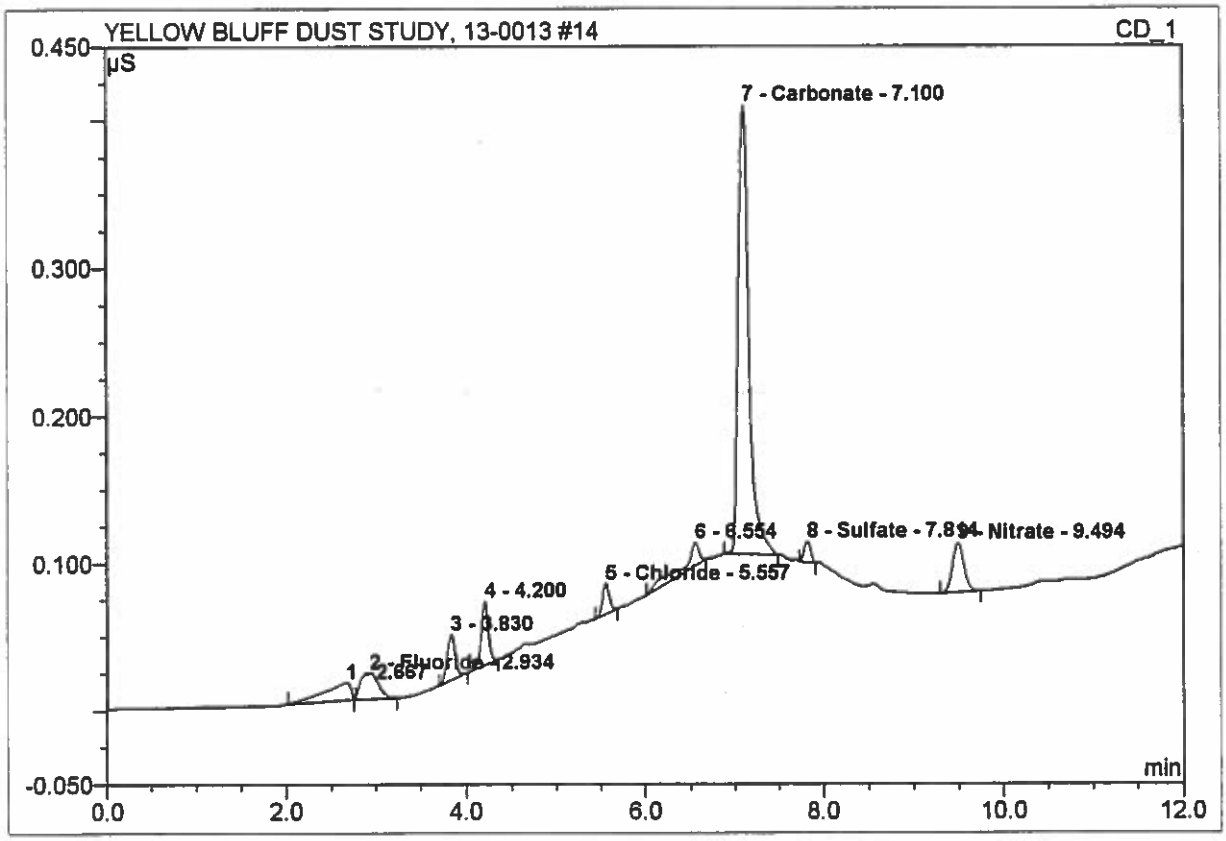
Sample Name:	**1211086-BLK2**	*Injection Volume:*	**25.0**
Vial Number:	**9**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 19:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.92	n.a.	0.038	0.004	5.58	n.a.	BMB
2	4.29	n.a.	0.030	0.003	3.84	n.a.	BMB
3	5.62	Chloride	0.103	0.009	13.16	0.028	BMB
4	6.60	n.a.	0.014	0.003	4.72	n.a.	BMB
5	7.13	Carbonate	0.302	0.042	62.89	n.a.	BMB
6	7.83	Sulfate	0.016	0.002	2.37	0.007	BMB
7	9.53	Nitrate	0.034	0.005	7.43	n.a.	BMB
Total:			0.536	0.067	100.00	0.034	

14 1211086-BLK3

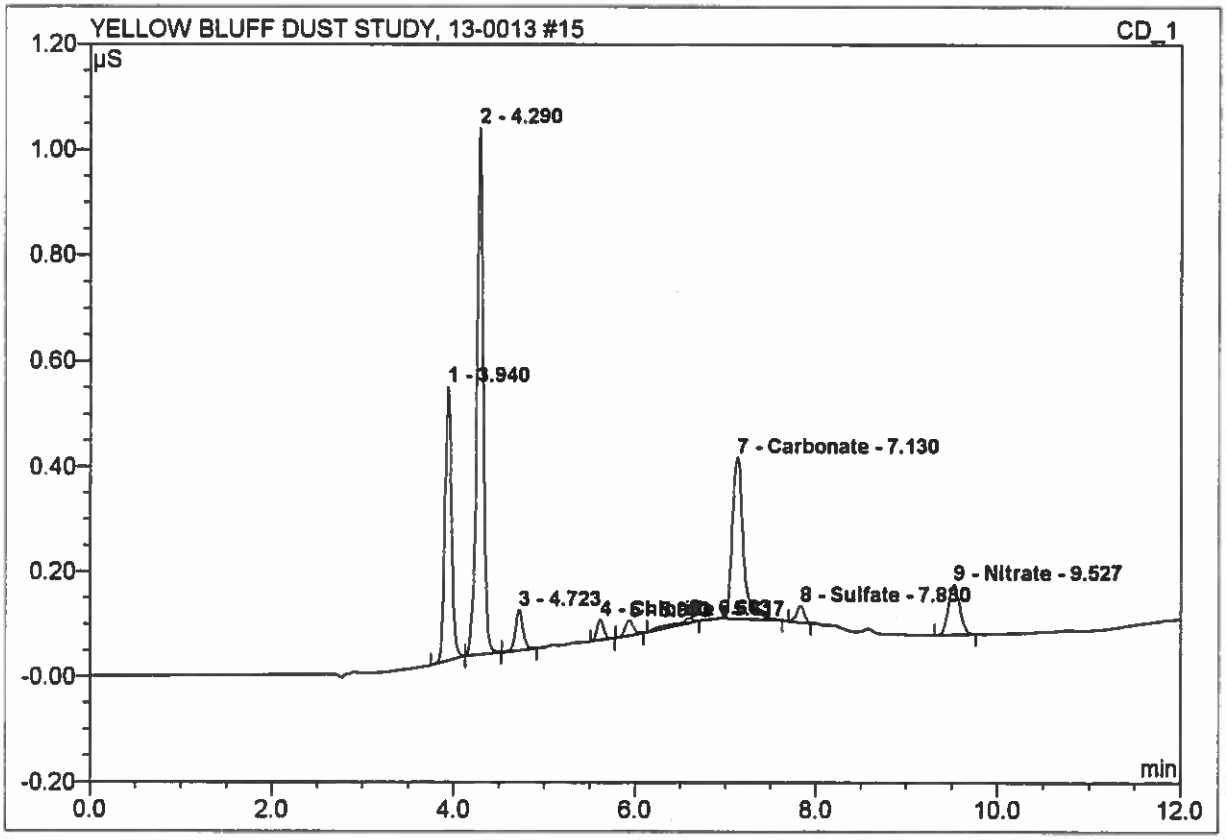
Sample Name:	**1211086-BLK3**	*Injection Volume:*	**25.0**
Vial Number:	**10**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 19:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.012	0.004	5.96	n.a.	BMB
2	2.93	Fluoride	0.018	0.004	5.95	0.734	BMB
3	3.83	n.a.	0.031	0.003	4.53	n.a.	BMB
4	4.20	n.a.	0.044	0.004	5.58	n.a.	BMB
5	5.56	Chloride	0.021	0.002	2.64	0.006	BMB
6	6.55	n.a.	0.016	0.003	4.85	n.a.	BMB
7	7.10	Carbonate	0.304	0.042	61.47	n.a.	BMB
8	7.81	Sulfate	0.014	0.001	1.75	0.005	BMB
9	9.49	Nitrate	0.034	0.005	7.27	n.a.	BMB
Total:			0.491	0.068	100.00	0.744	

15 E124405-01

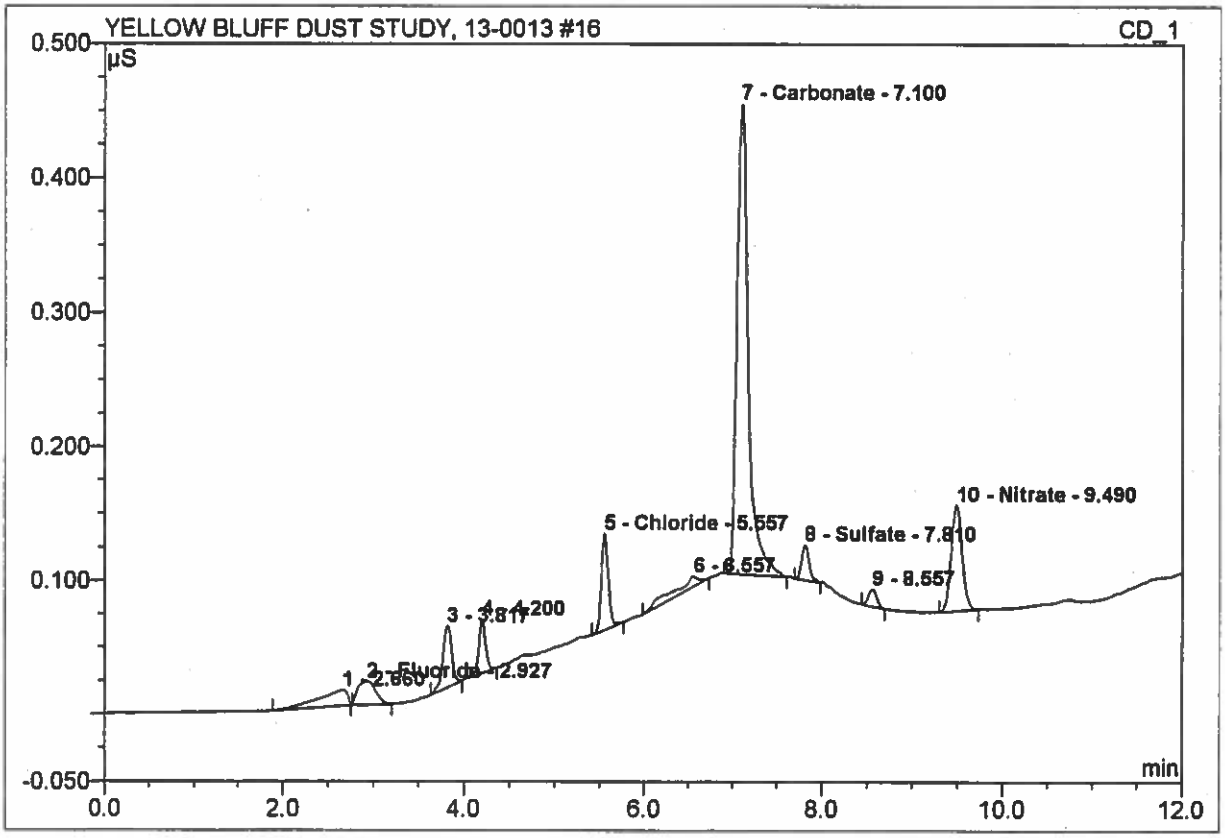
Sample Name:	**E124405-01**	*Injection Volume:*	**25.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 20:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.94	n.a.	0.521	0.044	21.32	n.a.	BMB
2	4.29	n.a.	0.998	0.085	41.44	n.a.	bMB
3	4.72	n.a.	0.077	0.007	3.62	n.a.	BMB
4	5.62	Chloride	0.039	0.003	1.68	0.011	BMB
5	5.93	n.a.	0.028	0.003	1.51	n.a.	BMB
6	6.60	n.a.	0.009	0.002	1.18	n.a.	BMB
7	7.13	Carbonate	0.307	0.043	20.95	n.a.	BMB
8	7.83	Sulfate	0.031	0.003	1.47	0.013	BMB
9	9.53	Nitrate	0.095	0.014	6.82	n.a.	BMB
Total:			2.106	0.205	100.00	0.024	

16 E124405-02

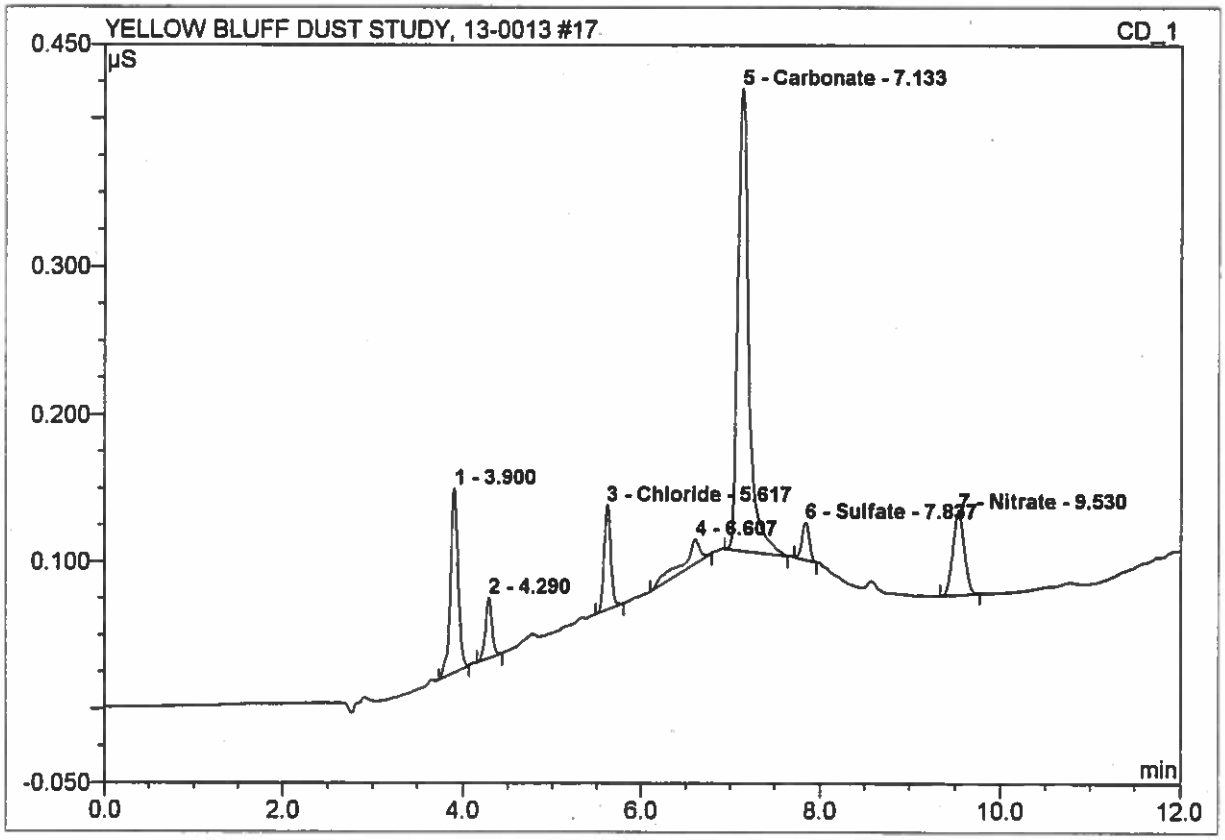
Sample Name:	**E124405-02**	*Injection Volume:*	**25.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 20:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.66	n.a.	0.012	0.004	4.72	n.a.	BMB
2	2.93	Fluoride	0.017	0.004	4.22	0.714	BMB
3	3.82	n.a.	0.046	0.005	5.63	n.a.	BMB
4	4.20	n.a.	0.041	0.004	3.79	n.a.	BMB
5	5.56	Chloride	0.072	0.006	6.90	0.020	BMB
6	6.56	n.a.	0.008	0.003	3.15	n.a.	BMB
7	7.10	Carbonate	0.350	0.052	55.11	n.a.	BMB
8	7.81	Sulfate	0.026	0.003	2.69	0.011	BMB
9	8.56	n.a.	0.013	0.001	1.47	n.a.	BMB
10	9.49	Nitrate	0.079	0.012	12.33	n.a.	BMB
Total:			0.662	0.094	100.00	0.745	

17 E124405-03

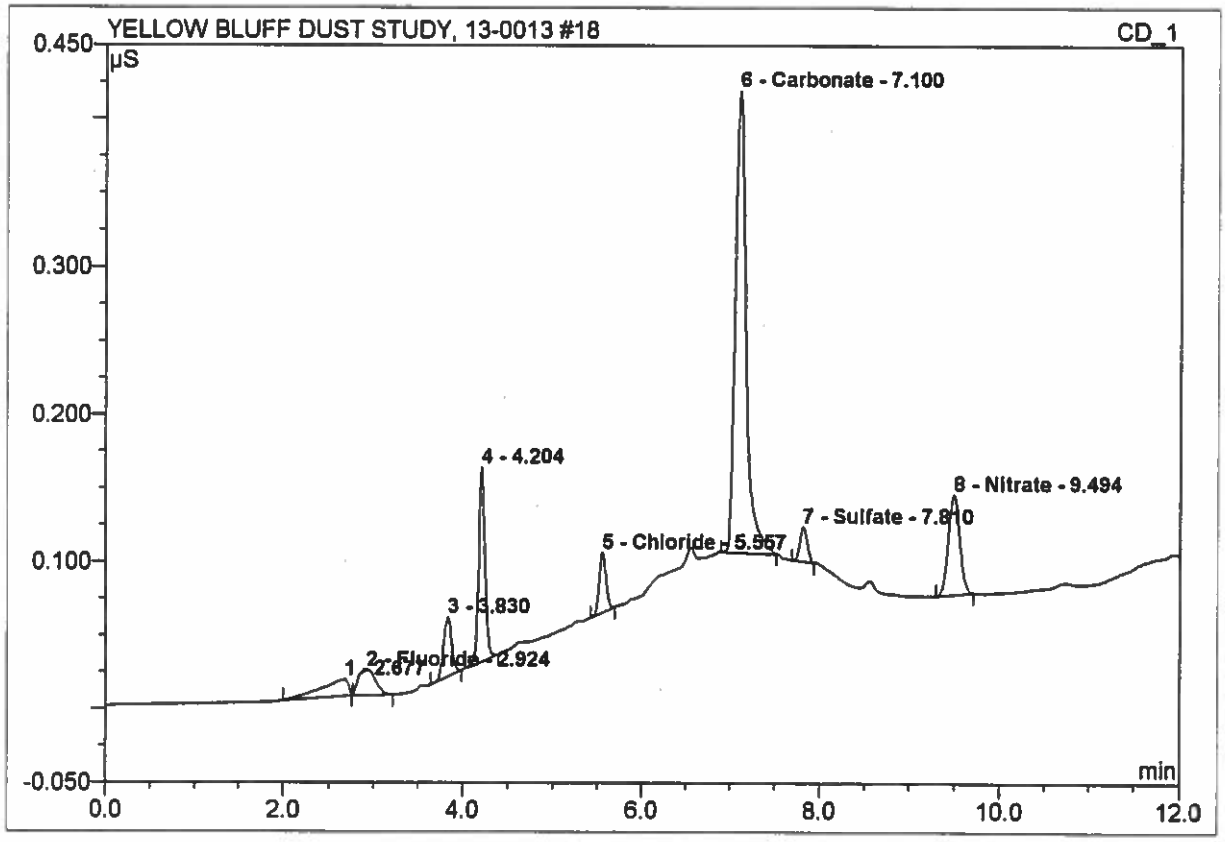
Sample Name:	**E124405-03**	*Injection Volume:*	**25.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 20:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.90	n.a.	0.125	0.012	15.12	n.a.	BMB
2	4.29	n.a.	0.041	0.003	4.27	n.a.	BMB
3	5.62	Chloride	0.071	0.006	7.62	0.019	BMB
4	6.61	n.a.	0.016	0.004	4.67	n.a.	BMB
5	7.13	Carbonate	0.312	0.045	55.11	n.a.	BMB
6	7.84	Sulfate	0.026	0.002	3.03	0.010	BMB
7	9.53	Nitrate	0.056	0.008	10.17	n.a.	BMB
Total:			0.649	0.081	100.00	0.030	

18 E124405-04

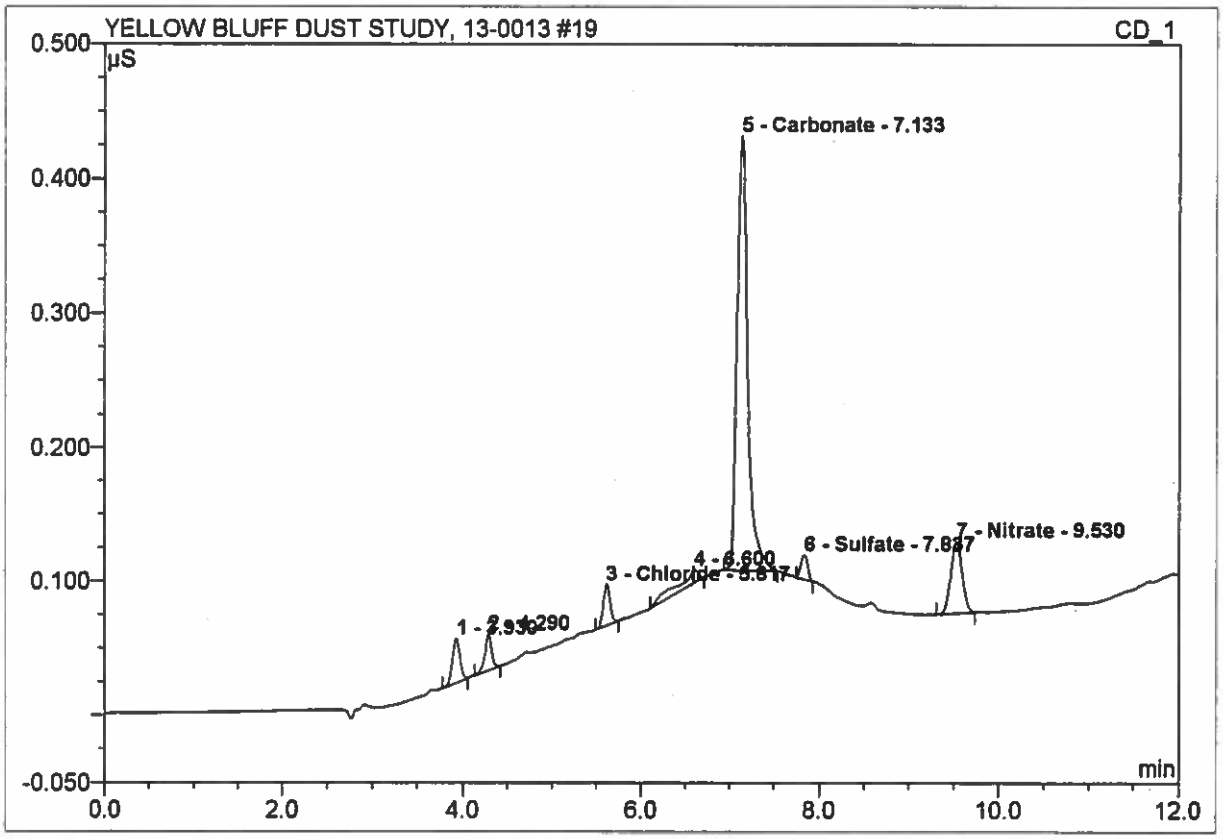
Sample Name:	E124405-04	*Injection Volume:*	25.0
Vial Number:	14	*Channel:*	CD_1
Sample Type:	unknown	*Wavelength:*	n.a.
Control Program:	gradient anion	*Bandwidth:*	n.a.
Quantif. Method:	gradient anion	*Dilution Factor:*	1.0000
Recording Time:	11/26/2012 21:16	*Sample Weight:*	1.0000
Run Time (min):	12.00	*Sample Amount:*	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.011	0.004	4.82	n.a.	BMB
2	2.92	Fluoride	0.017	0.004	4.69	0.700	BMB
3	3.83	n.a.	0.040	0.004	5.11	n.a.	BMB
4	4.20	n.a.	0.132	0.011	13.35	n.a.	BMB
5	5.56	Chloride	0.041	0.004	4.33	0.011	BMB
6	7.10	Carbonate	0.313	0.044	53.03	n.a.	BMB
7	7.81	Sulfate	0.024	0.002	2.72	0.010	BMB
8	9.49	Nitrate	0.068	0.010	11.96	n.a.	BMB
Total:			0.646	0.083	100.00	0.721	

19 E124405-05

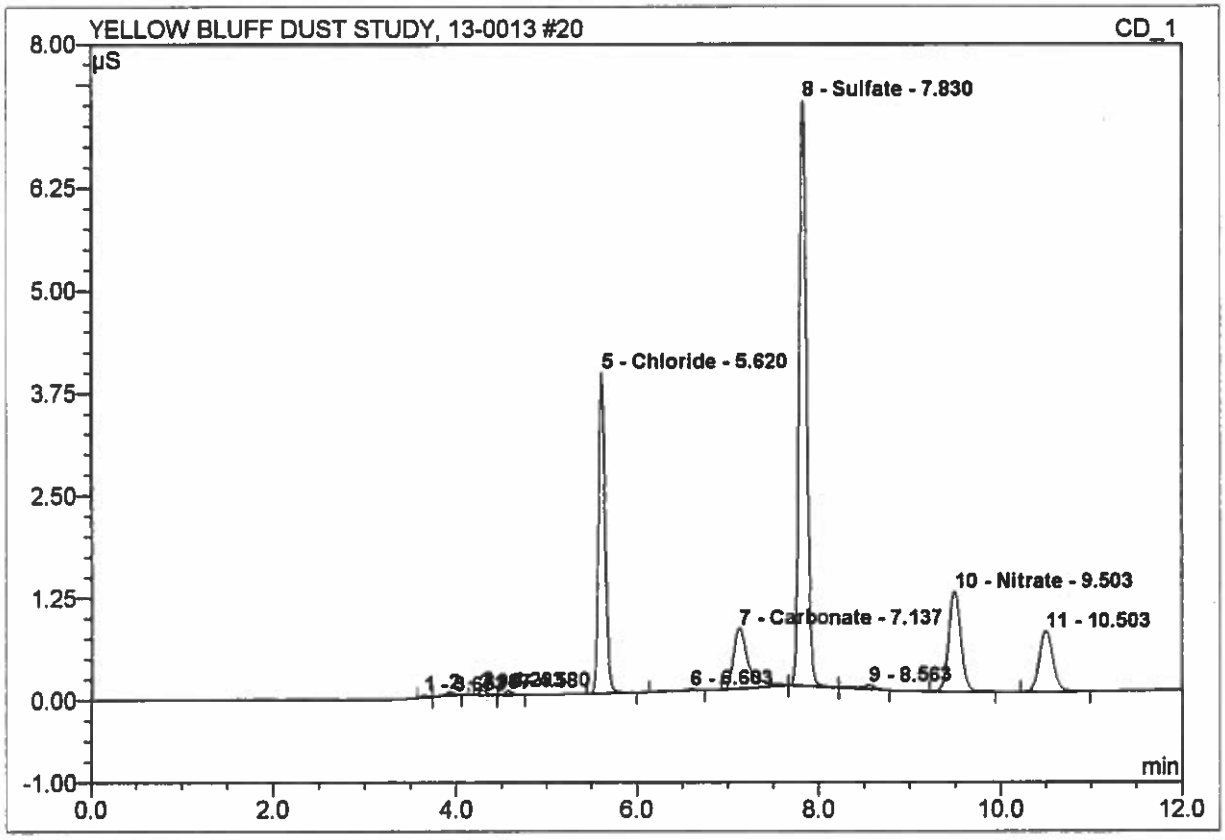
Sample Name:	**E124405-05**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 21:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.033	0.003	4.80	n.a.	BMB
2	4.29	n.a.	0.027	0.002	3.58	n.a.	BMB
3	5.62	Chloride	0.030	0.003	4.02	0.008	BMB
4	6.60	n.a.	0.010	0.003	4.33	n.a.	BMB
5	7.13	Carbonate	0.323	0.045	68.88	n.a.	BMB
6	7.84	Sulfate	0.018	0.002	2.43	0.007	BMB
7	9.53	Nitrate	0.054	0.008	11.98	n.a.	BMB
Total:			0.495	0.066	100.00	0.015	

20 E124405-06

Sample Name:	**E124405-06**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 21:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

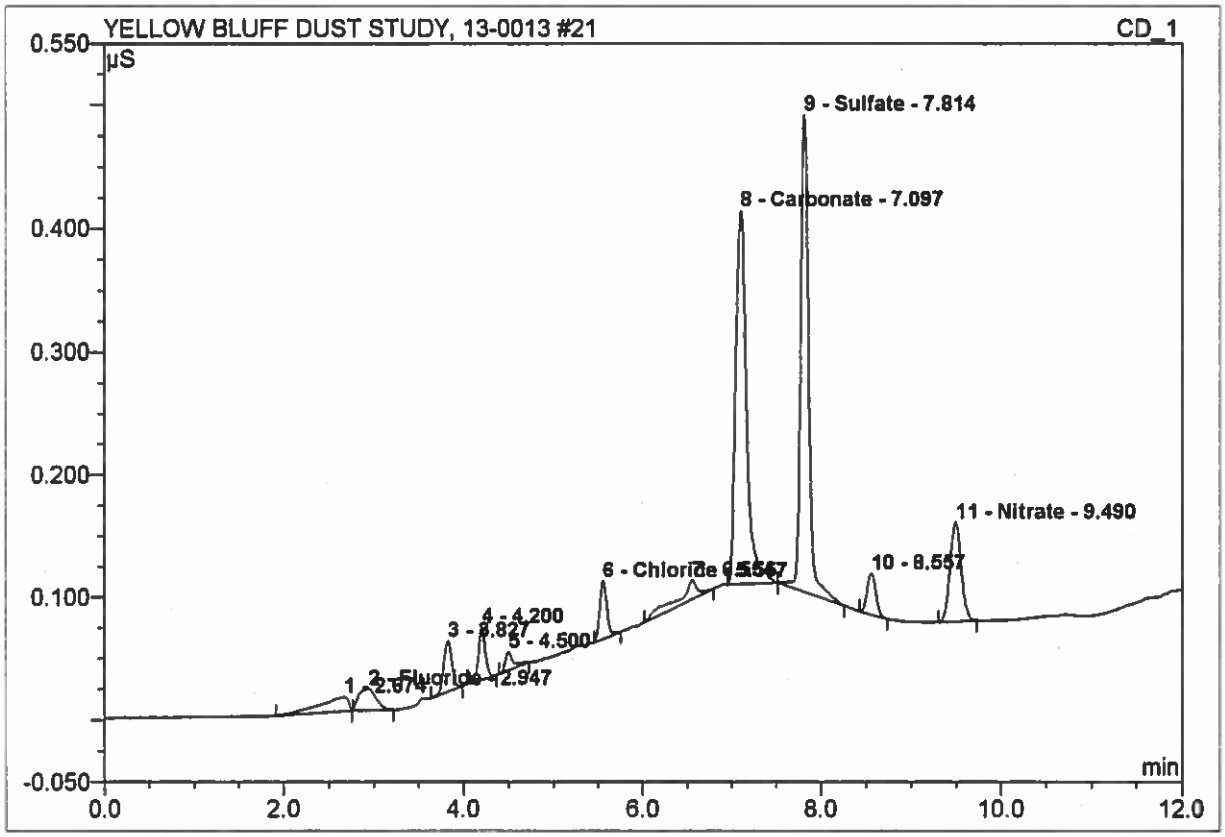


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.65	n.a.	0.033	0.002	0.15	n.a.	BMb
2	3.94	n.a.	0.044	0.005	0.33	n.a.	bMB
3	4.29	n.a.	0.059	0.005	0.35	n.a.	BMB
4	4.58	n.a.	0.051	0.004	0.29	n.a.	BMB
5	5.62	Chloride	3.918	0.336	22.44	1.056	BMB
6	6.60	n.a.	0.021	0.003	0.22	n.a.	BMB
7	7.14	Carbonate	0.739	0.136	9.06	n.a.	BMb
8	7.83	Sulfate	7.144	0.678	45.22	2.874	bMB
9	8.56	n.a.	0.049	0.009	0.59	n.a.	BMB
10	9.50	Nitrate	1.223	0.188	12.55	n.a.	BMB
11	10.50	n.a.	0.741	0.132	8.80	n.a.	BMB

Total:		14.022	1.500	100.00	3.930

21 E124405-07

Sample Name:	**E124405-07**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 22:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

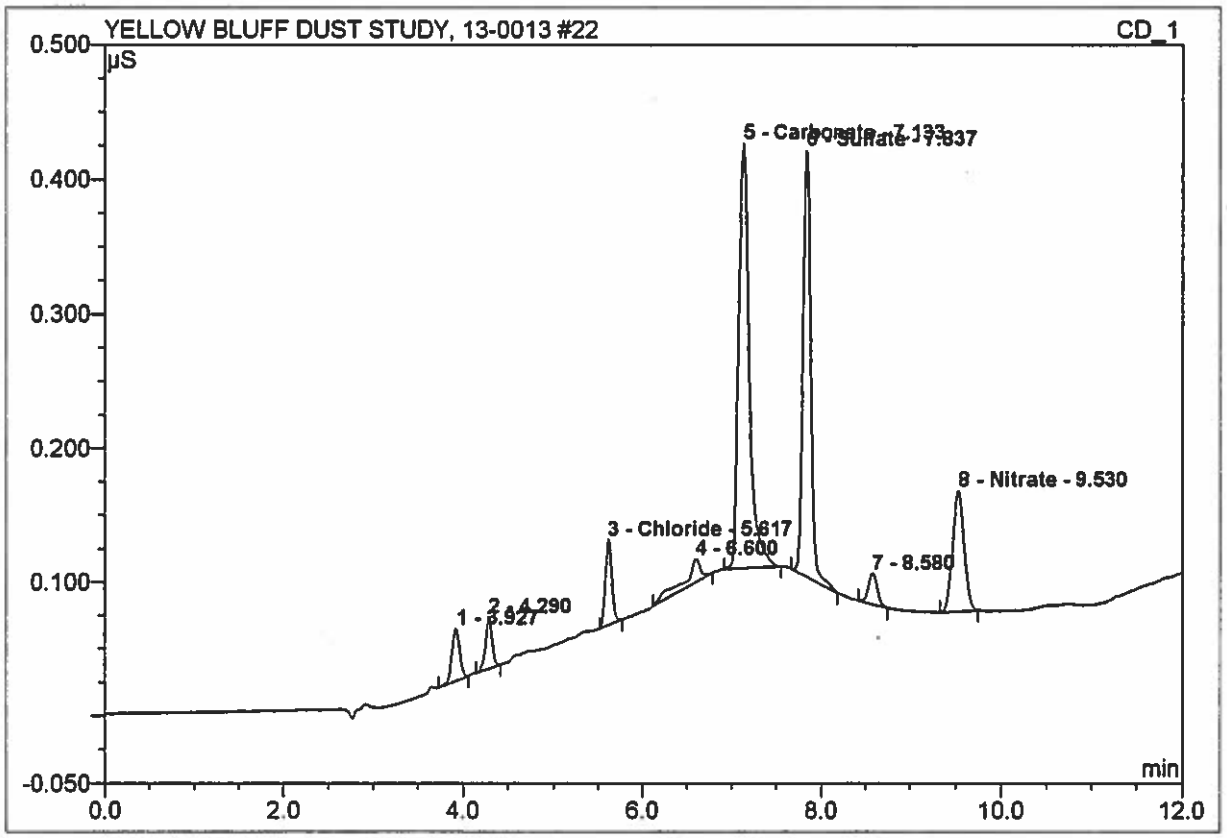


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.012	0.004	3.56	n.a.	BMB
2	2.95	Fluoride	0.017	0.004	3.18	0.711	BMB
3	3.83	n.a.	0.041	0.004	3.50	n.a.	BMB
4	4.20	n.a.	0.043	0.004	3.08	n.a.	BMB
5	4.50	n.a.	0.015	0.002	1.27	n.a.	BMB
6	5.56	Chloride	0.048	0.004	3.43	0.013	BMB
7	6.55	n.a.	0.015	0.004	3.17	n.a.	BMB
8	7.10	Carbonate	0.304	0.042	34.01	n.a.	BMb
9	7.81	Sulfate	0.387	0.040	32.13	0.169	bMB
10	8.56	n.a.	0.034	0.004	3.01	n.a.	BMB
11	9.49	Nitrate	0.081	0.012	9.64	n.a.	BMB

Total:		0.997	0.124	100.00	0.893	

22 E124405-08

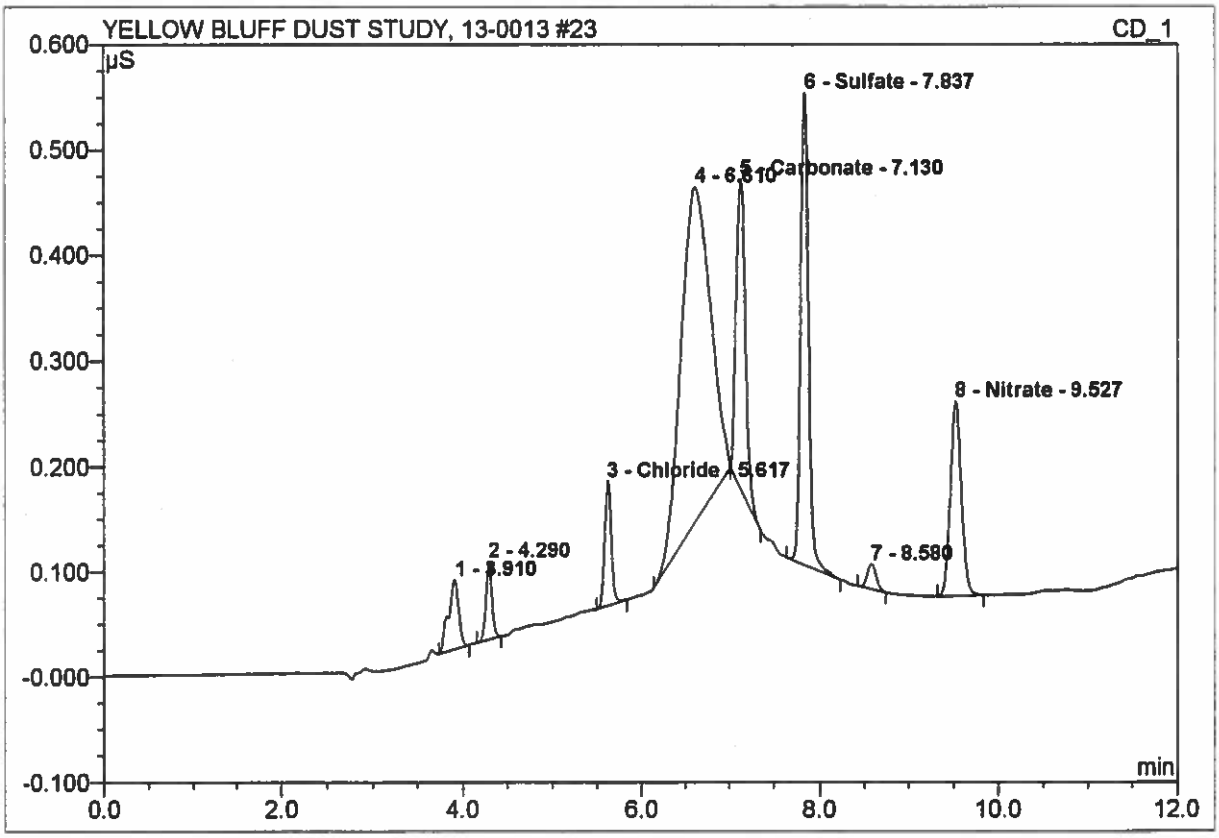
Sample Name:	**E124405-08**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 22:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.039	0.004	3.68	n.a.	BMB
2	4.29	n.a.	0.039	0.003	3.02	n.a.	BMB
3	5.62	Chloride	0.064	0.005	5.13	0.017	BMB
4	6.60	n.a.	0.017	0.004	3.39	n.a.	BMB
5	7.13	Carbonate	0.316	0.044	41.02	n.a.	BMB
6	7.84	Sulfate	0.317	0.031	28.97	0.132	BMB
7	8.58	n.a.	0.023	0.003	2.45	n.a.	BMB
8	9.53	Nitrate	0.090	0.013	12.33	n.a.	BMB
Total:			0.906	0.107	100.00	0.149	

23 E124405-09

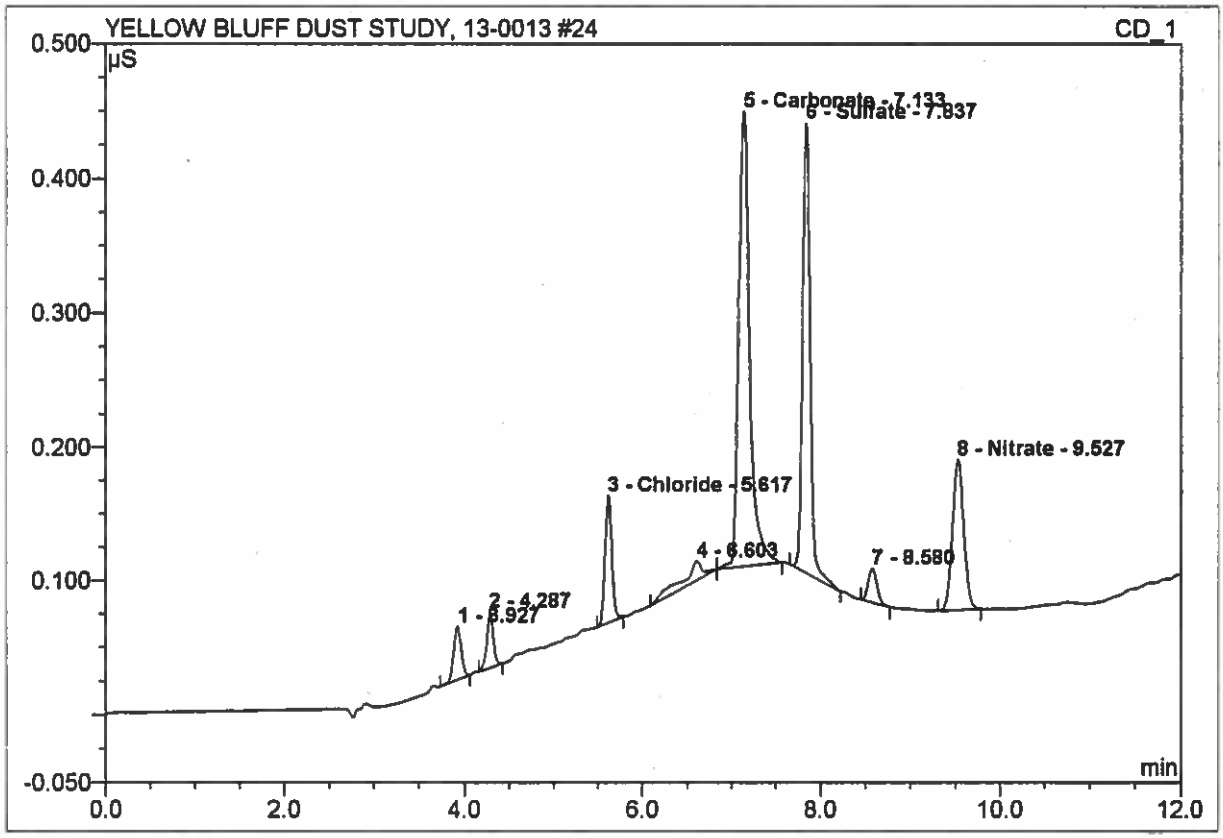
Sample Name:	**E124405-09**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 23:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.91	n.a.	0.066	0.009	3.49	n.a.	BMB
2	4.29	n.a.	0.074	0.006	2.28	n.a.	BMB
3	5.62	Chloride	0.119	0.010	3.98	0.032	BMB
4	6.61	n.a.	0.318	0.124	47.96	n.a.	BMb
5	7.13	Carbonate	0.294	0.035	13.77	n.a.	bMB
6	7.84	Sulfate	0.448	0.044	16.92	0.185	BMB
7	8.58	n.a.	0.024	0.003	1.06	n.a.	BMB
8	9.53	Nitrate	0.185	0.027	10.56	n.a.	BMB
Total:			1.528	0.258	100.00	0.217	

24 E124405-10

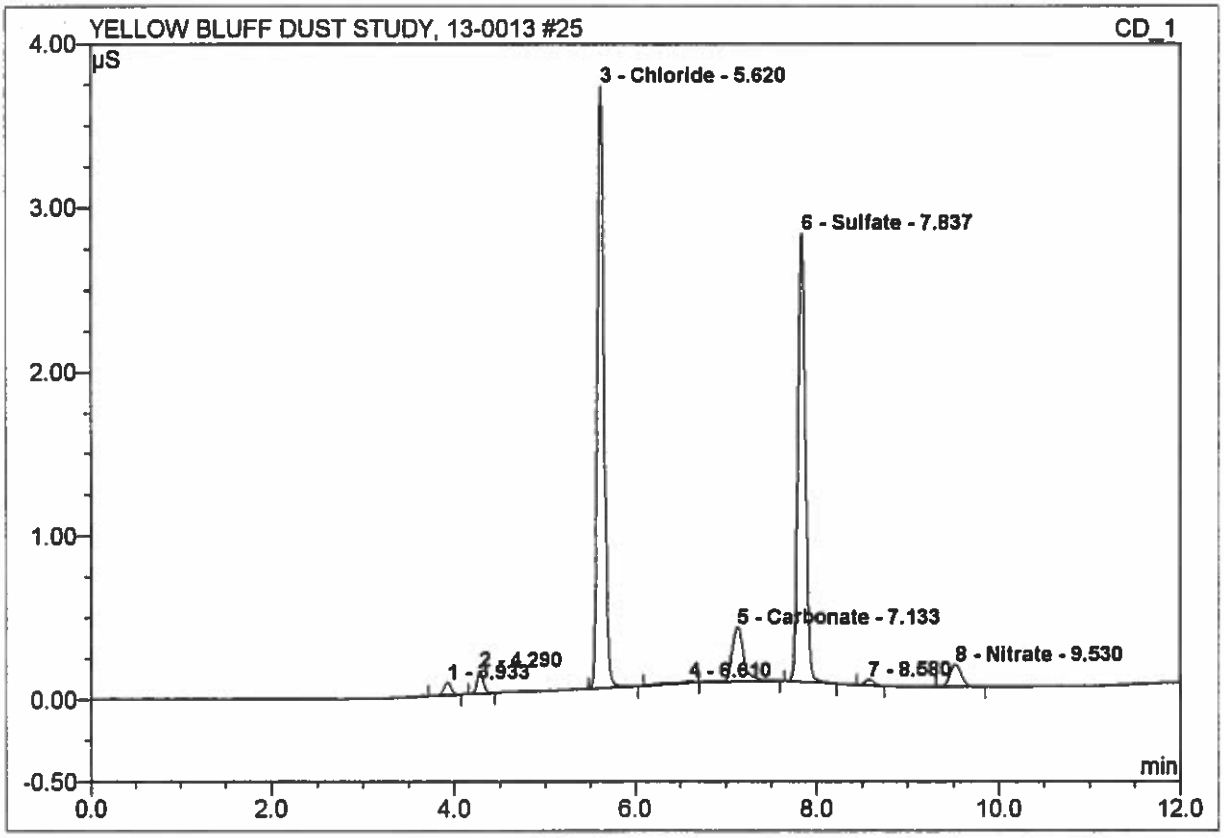
Sample Name:	**E124405-10**	*Injection Volume:*	**25.0**
Vial Number:	**20**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 23:23**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.040	0.004	3.28	n.a.	BMB
2	4.29	n.a.	0.042	0.003	2.86	n.a.	BMB
3	5.62	Chloride	0.095	0.008	6.77	0.026	BMB
4	6.60	n.a.	0.014	0.004	3.20	n.a.	BMB
5	7.13	Carbonate	0.339	0.049	40.34	n.a.	bMB
6	7.84	Sulfate	0.335	0.033	27.44	0.140	BMB
7	8.58	n.a.	0.025	0.003	2.37	n.a.	BMB
8	9.53	Nitrate	0.113	0.017	13.74	n.a.	BMB
Total:			1.003	0.120	100.00	0.166	

25 1211086-MS1

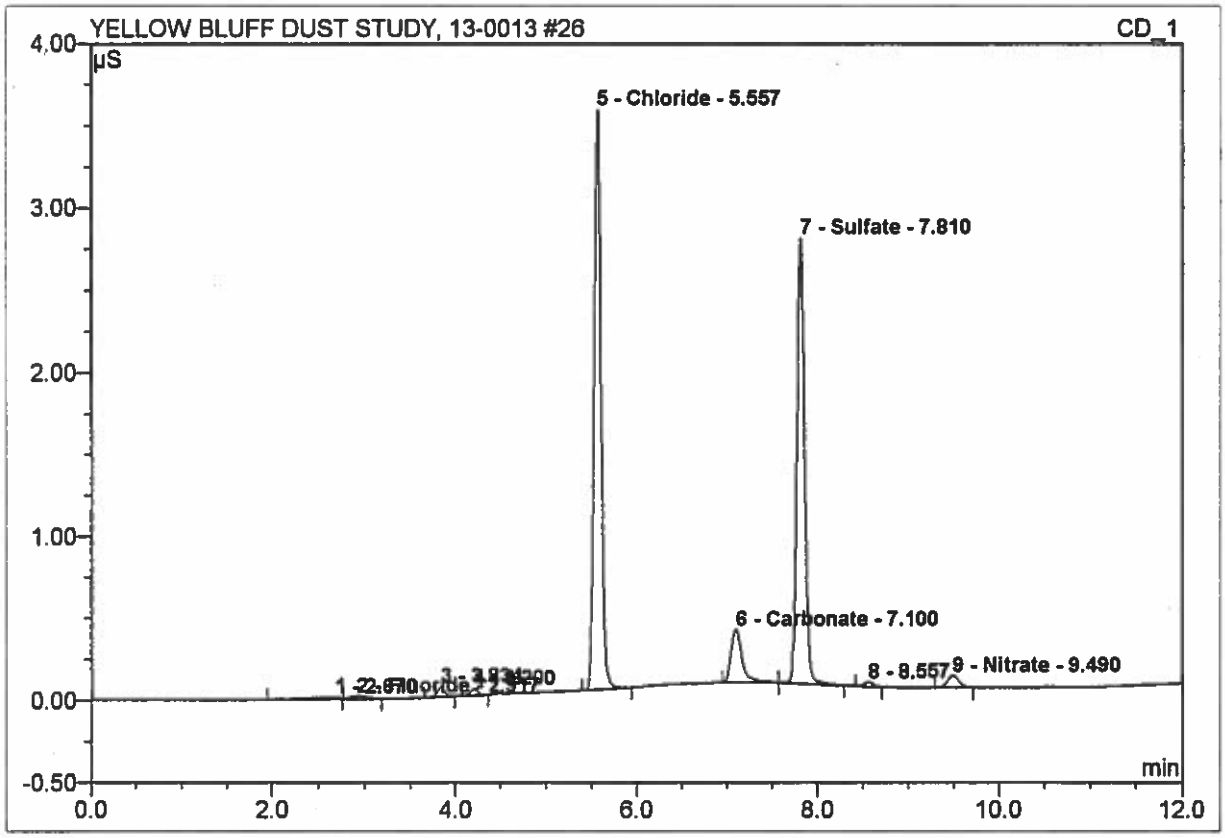
Sample Name:	**1211086-MS1**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/26/2012 23:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.078	0.007	1.05	n.a.	BMB
2	4.29	n.a.	0.142	0.011	1.68	n.a.	BMB
3	5.62	Chloride	3.670	0.314	47.04	0.987	BMB
4	6.61	n.a.	0.010	0.003	0.41	n.a.	BMB
5	7.13	Carbonate	0.333	0.049	7.28	n.a.	bMB
6	7.84	Sulfate	2.736	0.260	38.91	1.102	BMB
7	8.58	n.a.	0.036	0.004	0.60	n.a.	BMB
8	9.53	Nitrate	0.137	0.020	3.03	n.a.	BMB
Total:			7.141	0.668	100.00	2.089	

26 1211086-MSD1

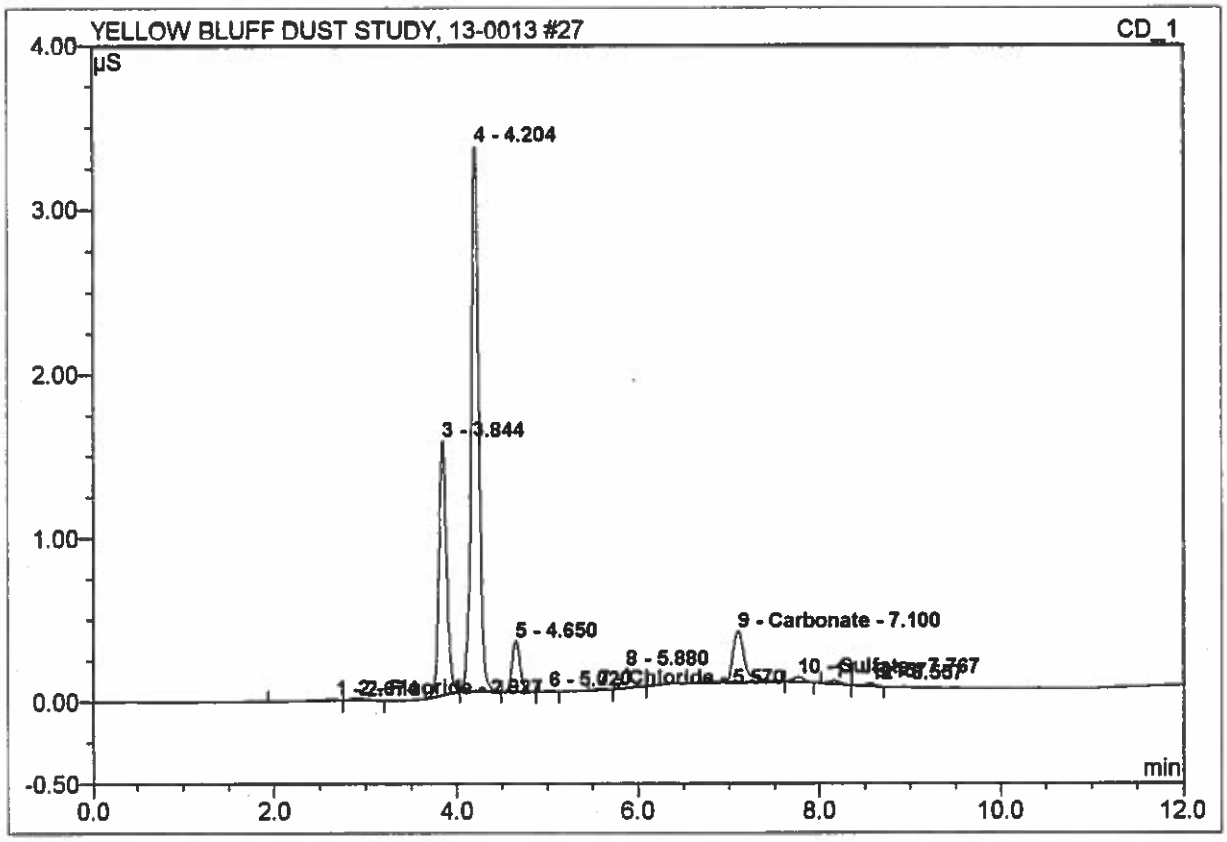
Sample Name:	**1211086-MSD1**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 0:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.011	0.004	0.62	n.a.	BMB
2	2.92	Fluoride	0.016	0.004	0.57	0.663	BMB
3	3.83	n.a.	0.059	0.006	0.87	n.a.	BMB
4	4.20	n.a.	0.039	0.004	0.54	n.a.	BMB
5	5.56	Chloride	3.535	0.312	48.09	0.979	BMB
6	7.10	Carbonate	0.323	0.046	7.06	n.a.	BMb
7	7.81	Sulfate	2.716	0.260	40.14	1.103	bMB
8	8.56	n.a.	0.028	0.003	0.47	n.a.	BMB
9	9.49	Nitrate	0.073	0.011	1.64	n.a.	BMB
Total:			6.801	0.648	100.00	2.745	

27 Rinse Water

Sample Name:	**Rinse Water**	*Injection Volume:*	**25.0**
Vial Number:	**100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 0:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

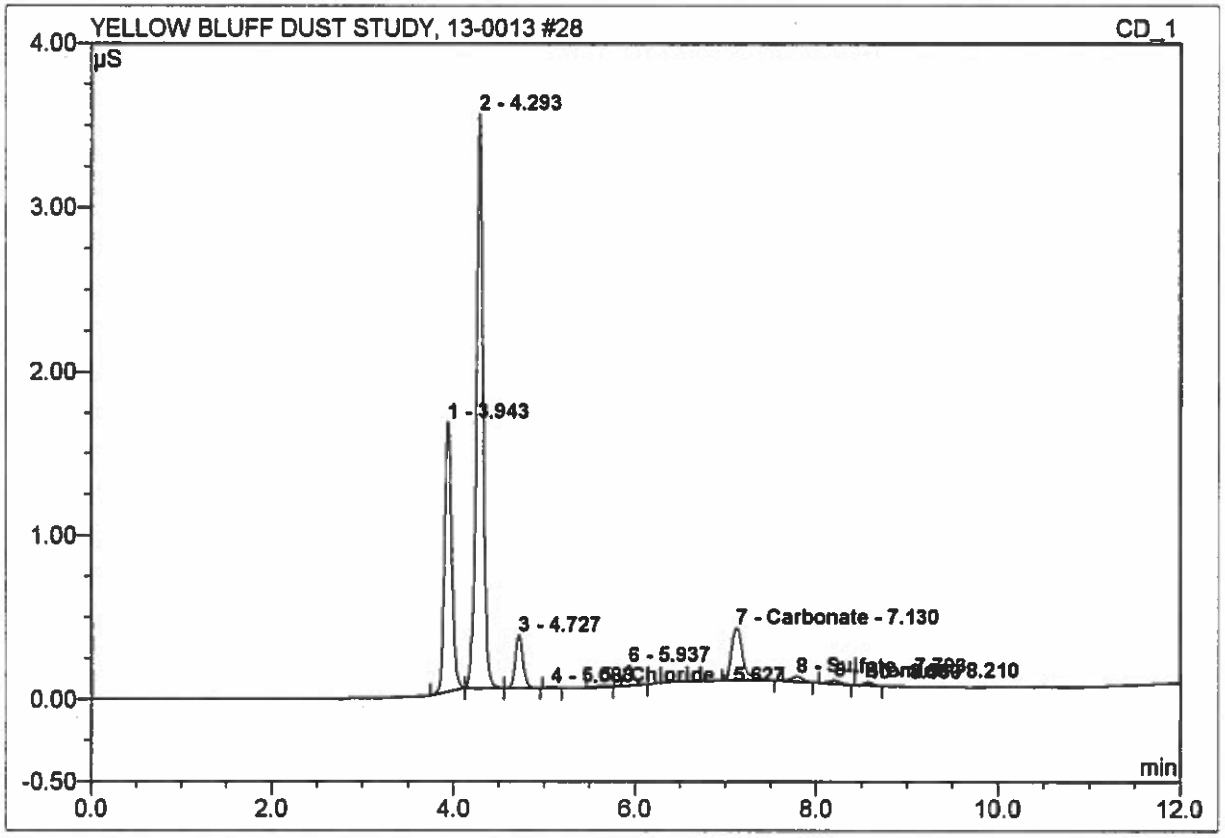


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.011	0.004	0.70	n.a.	BMB
2	2.93	Fluoride	0.017	0.004	0.64	0.670	BMB
3	3.84	n.a.	1.557	0.154	26.58	n.a.	BMB
4	4.20	n.a.	3.327	0.311	53.72	n.a.	bMB
5	4.65	n.a.	0.314	0.032	5.50	n.a.	BMB
6	5.02	n.a.	0.010	0.001	0.17	n.a.	BMB
7	5.57	Chloride	0.010	0.001	0.18	0.003	BMB
8	5.88	n.a.	0.121	0.014	2.39	n.a.	BMB
9	7.10	Carbonate	0.316	0.049	8.42	n.a.	BMb
10	7.77	Sulfate	0.033	0.005	0.79	0.019	bMB
11	8.16	n.a.	0.020	0.003	0.53	n.a.	BMB

12	8.56	n.a.	0.020	0.002	0.39	n.a.	BMB
Total:			5.755	0.579	100.00	0.692	

28 1211086-BLK4

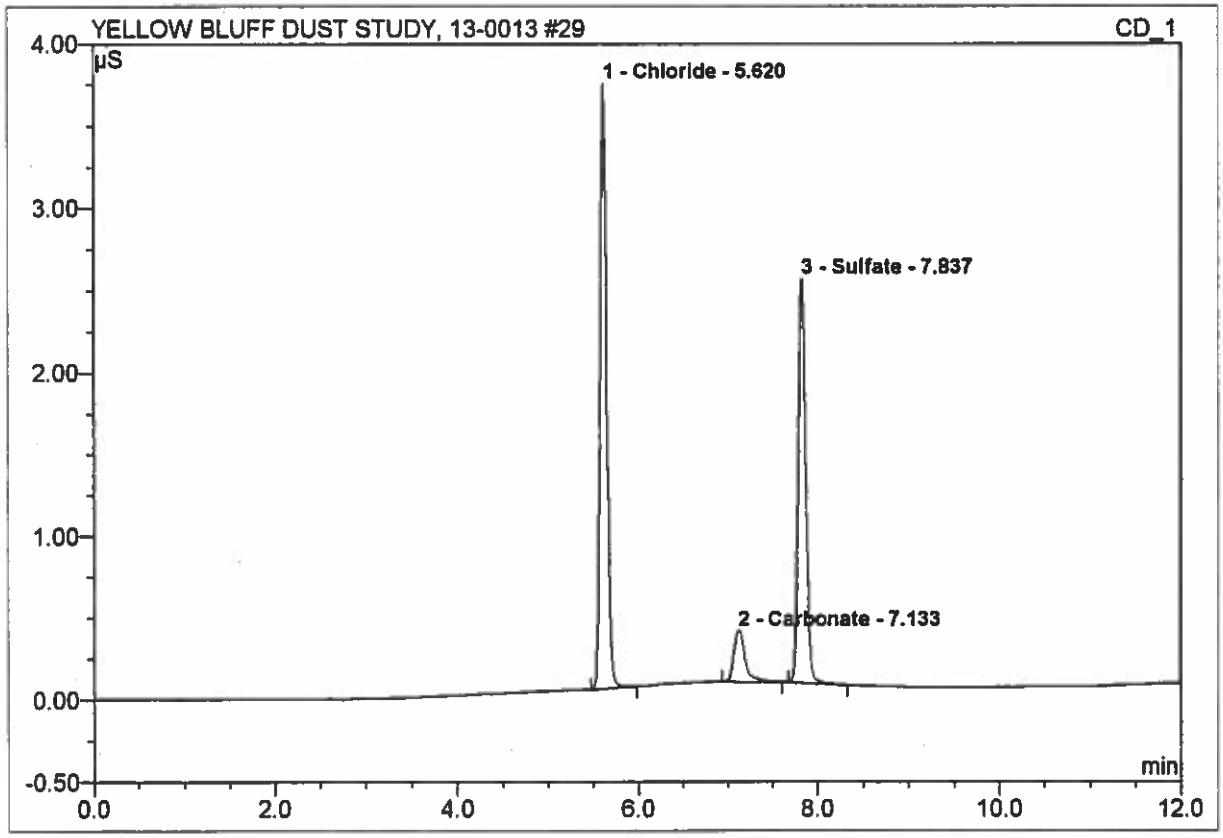
Sample Name:	**1211086-BLK4**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 0:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.94	n.a.	1.651	0.152	26.96	n.a.	BMb
2	4.29	n.a.	3.503	0.310	54.84	n.a.	bMB
3	4.73	n.a.	0.326	0.032	5.64	n.a.	BMB
4	5.08	n.a.	0.011	0.001	0.18	n.a.	BMB
5	5.63	Chloride	0.010	0.001	0.19	0.003	BMB
6	5.94	n.a.	0.125	0.014	2.52	n.a.	BMB
7	7.13	Carbonate	0.323	0.045	7.98	n.a.	BMB
8	7.79	Sulfate	0.032	0.004	0.76	0.018	BMB
9	8.21	Bromide	0.019	0.003	0.50	n.a.	BMB
10	8.58	n.a.	0.022	0.002	0.44	n.a.	BMB
Total:			6.022	0.566	100.00	0.021	

29 1211086-CCV2

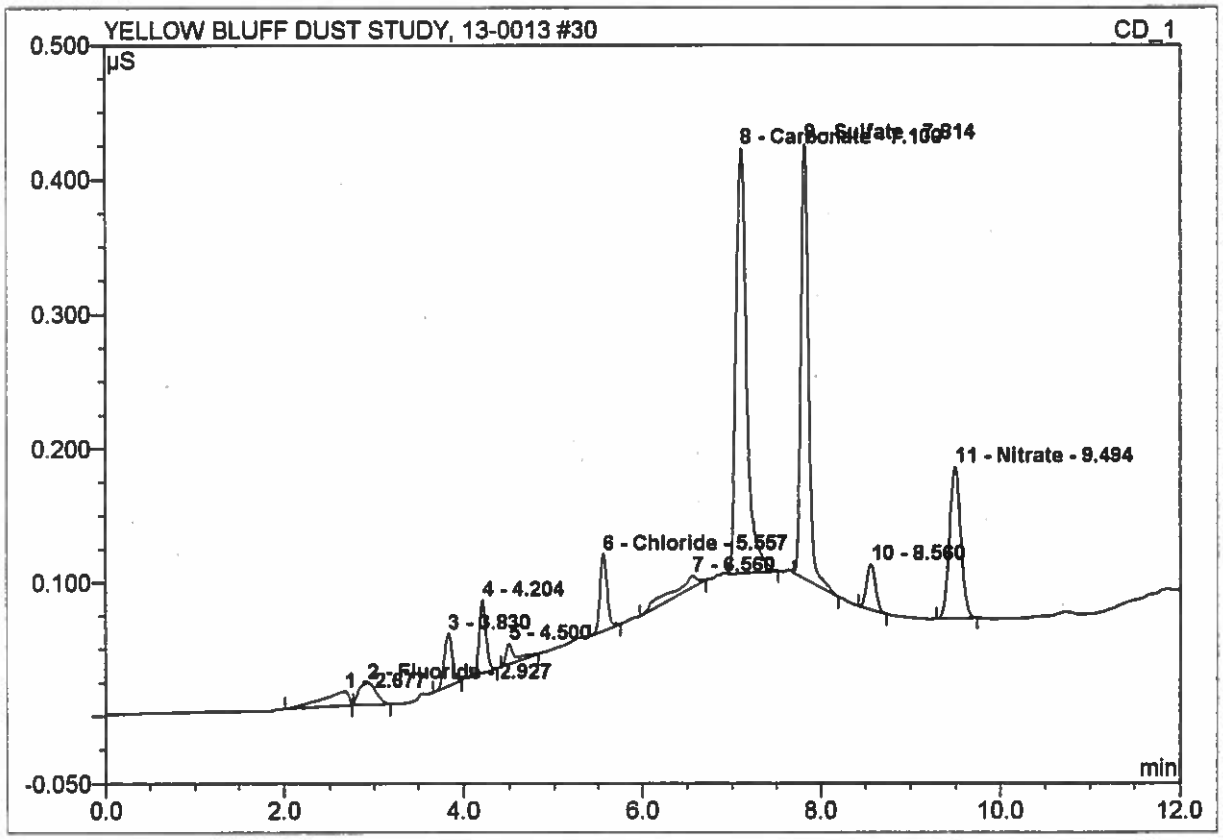
Sample Name:	**1211086-CCV2**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 1:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	5.62	Chloride	3.692	0.317	53.13	0.994	BMB
2	7.13	Carbonate	0.314	0.044	7.45	n.a.	BMB
3	7.84	Sulfate	2.473	0.235	39.42	0.996	BMB
Total:			6.479	0.596	100.00	1.991	

30 E124405-11

Sample Name:	**E124405-11**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 1:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

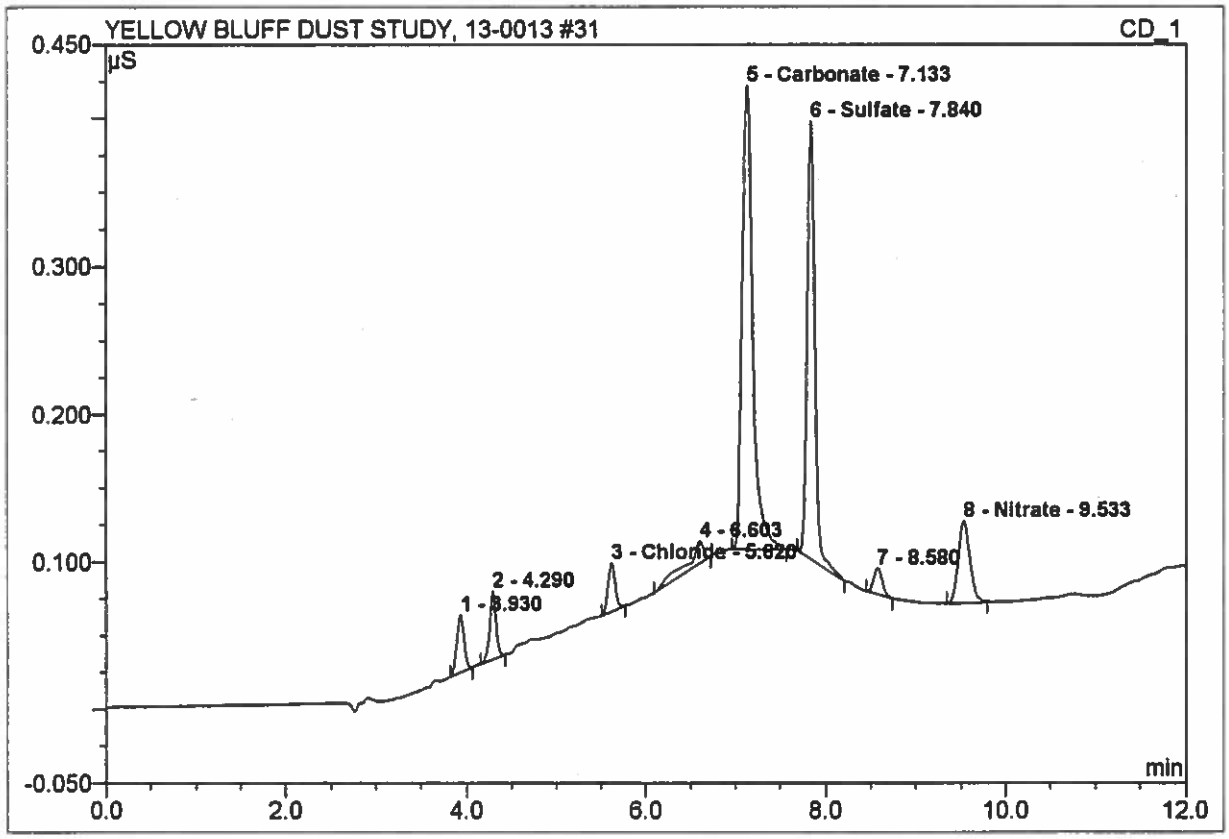


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.010	0.004	2.98	n.a.	BMB
2	2.93	Fluoride	0.016	0.004	2.97	0.659	BMB
3	3.83	n.a.	0.039	0.004	3.33	n.a.	BMB
4	4.20	n.a.	0.055	0.005	3.85	n.a.	BMB
5	4.50	n.a.	0.015	0.002	1.49	n.a.	BMB
6	5.56	Chloride	0.058	0.005	4.33	0.017	BMB
7	6.56	n.a.	0.008	0.003	2.60	n.a.	BMB
8	7.10	Carbonate	0.316	0.044	35.84	n.a.	BMB
9	7.81	Sulfate	0.324	0.032	25.99	0.135	BMB
10	8.56	n.a.	0.034	0.004	3.07	n.a.	BMB
11	9.49	Nitrate	0.113	0.017	13.54	n.a.	BMB

Total:		0.989	0.123	100.00	0.811

31 E124405-12

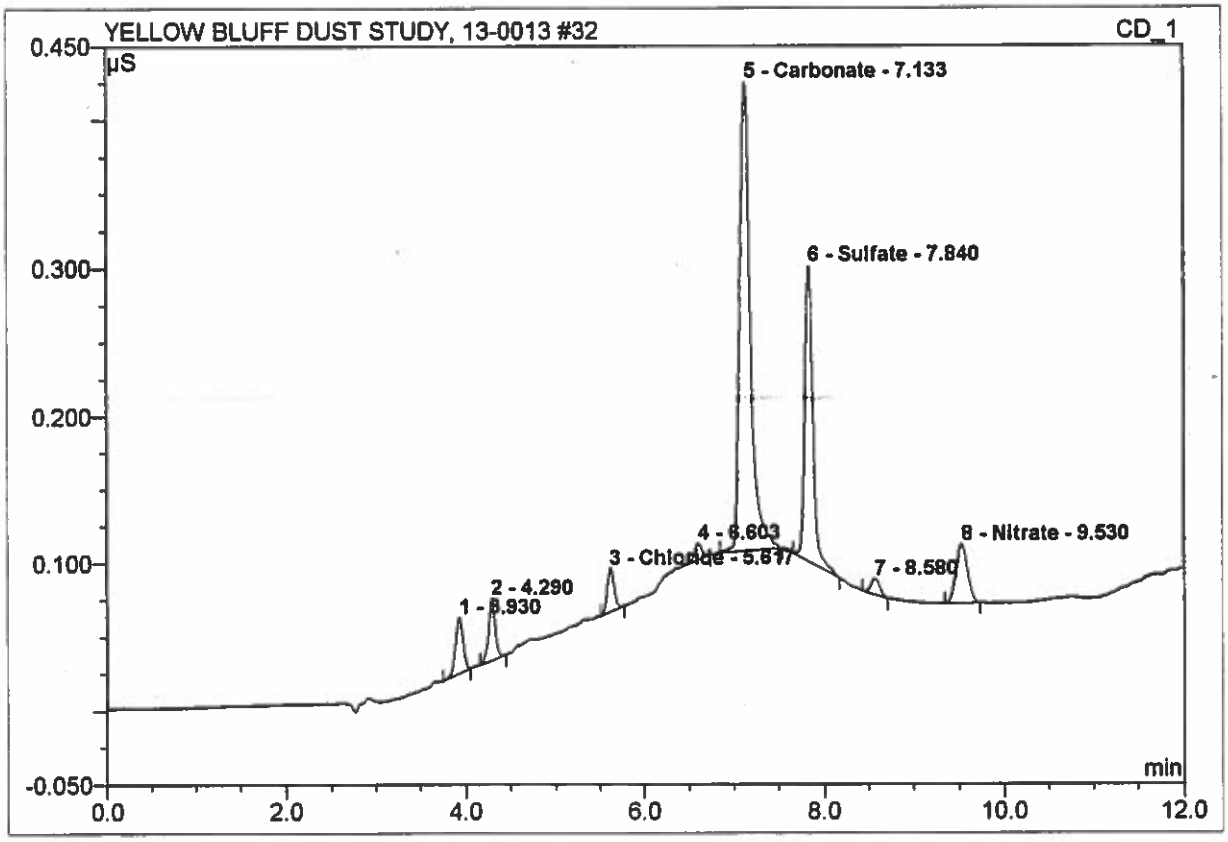
Sample Name:	**E124405-12**	*Injection Volume:*	**25.0**
Vial Number:	**24**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 1:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.039	0.004	3.79	n.a.	BMB
2	4.29	n.a.	0.046	0.004	3.95	n.a.	BMB
3	5.62	Chloride	0.033	0.003	2.99	0.009	BMB
4	6.60	n.a.	0.015	0.003	3.36	n.a.	BMB
5	7.13	Carbonate	0.313	0.043	45.20	n.a.	BMB
6	7.84	Sulfate	0.296	0.029	29.96	0.122	BMB
7	8.58	n.a.	0.018	0.002	2.03	n.a.	BMB
8	9.53	Nitrate	0.055	0.008	8.73	n.a.	BMB
Total:			0.815	0.096	100.00	0.131	

32 E124405-13

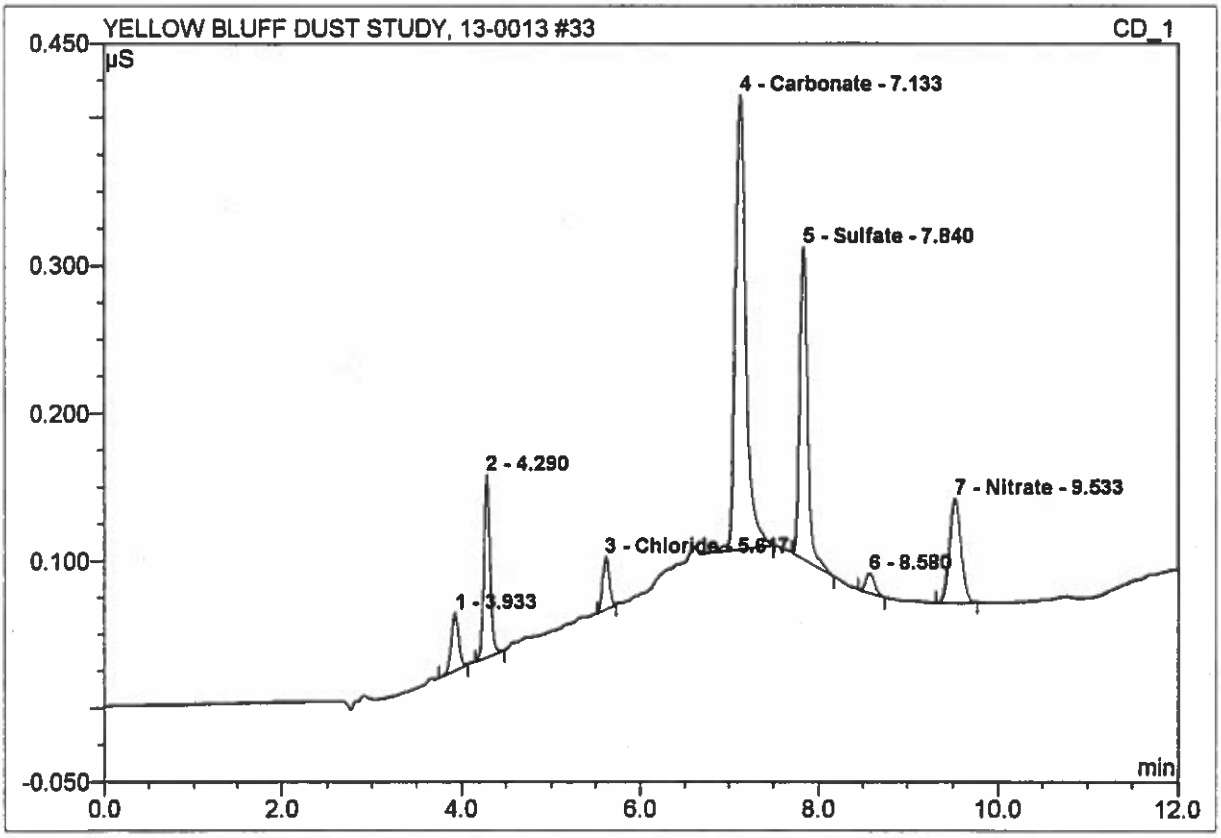
Sample Name:	**E124405-13**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 2:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.038	0.004	4.48	n.a.	BMB
2	4.29	n.a.	0.042	0.004	4.26	n.a.	BMB
3	5.62	Chloride	0.029	0.003	3.06	0.008	BMB
4	6.60	n.a.	0.011	0.001	1.29	n.a.	BMB
5	7.13	Carbonate	0.317	0.044	53.64	n.a.	BMB
6	7.84	Sulfate	0.201	0.020	24.60	0.086	BMB
7	8.58	n.a.	0.011	0.001	1.50	n.a.	BMB
8	9.53	Nitrate	0.040	0.006	7.17	n.a.	BMB
Total:			0.689	0.082	100.00	0.094	

33 E124405-14

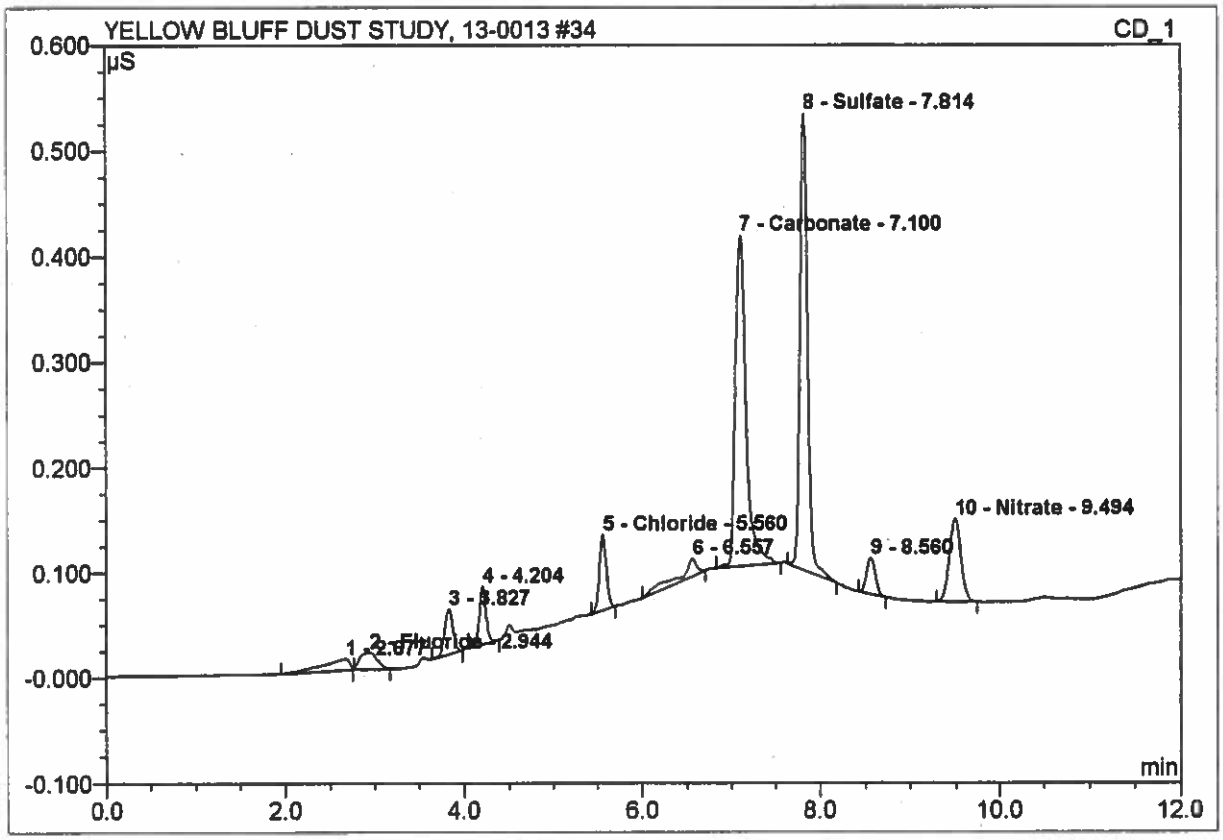
Sample Name:	**E124405-14**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 2:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.039	0.004	4.02	n.a.	BMB
2	4.29	n.a.	0.124	0.010	10.65	n.a.	BMB
3	5.62	Chloride	0.036	0.003	3.25	0.009	BMB
4	7.13	Carbonate	0.307	0.043	46.31	n.a.	BMB
5	7.84	Sulfate	0.211	0.021	22.87	0.089	BMB
6	8.58	n.a.	0.013	0.001	1.62	n.a.	BMB
7	9.53	Nitrate	0.071	0.010	11.28	n.a.	BMB
Total:			0.802	0.092	100.00	0.099	

34 E124405-15

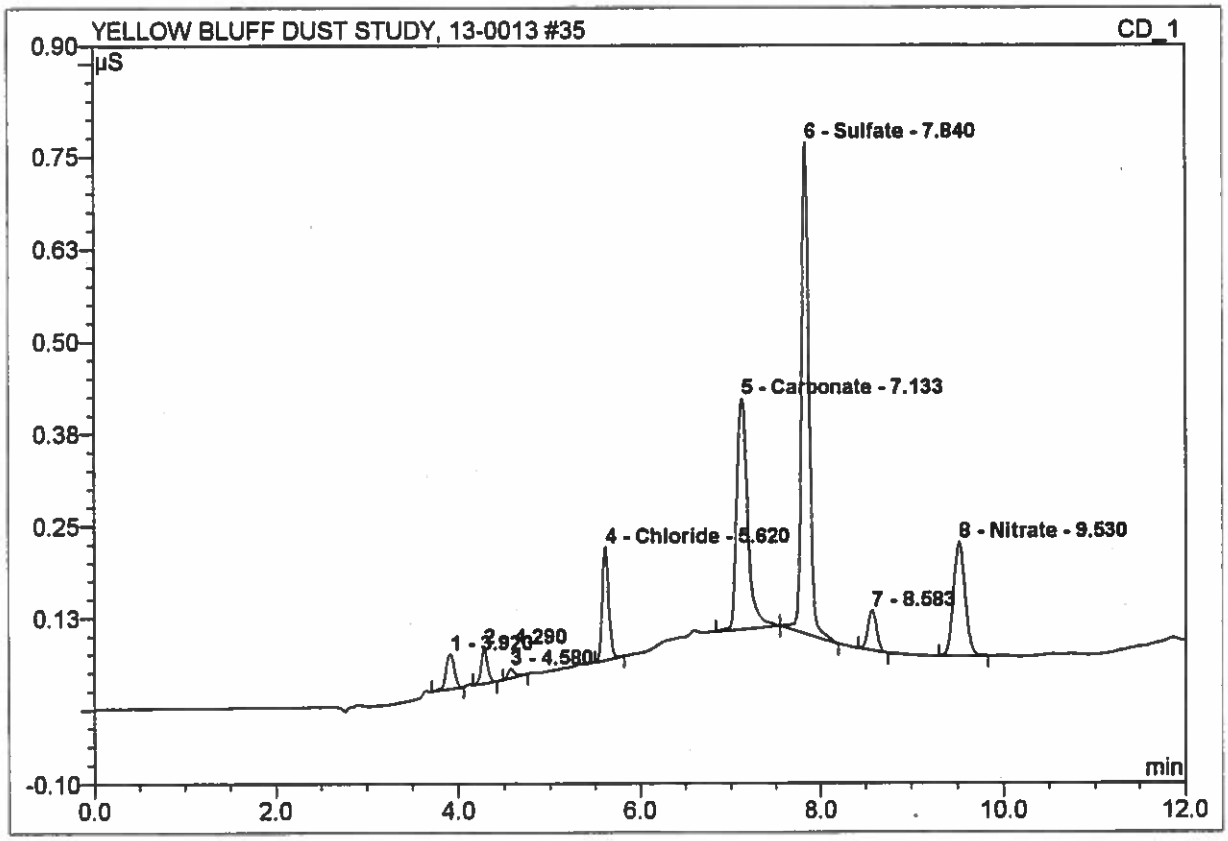
Sample Name:	**E124405-15**	*Injection Volume:*	**25.0**
Vial Number:	**27**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 2:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.011	0.004	2.99	n.a.	BMB
2	2.94	Fluoride	0.016	0.004	2.74	0.642	BMB
3	3.83	n.a.	0.043	0.005	3.53	n.a.	BMB
4	4.20	n.a.	0.055	0.005	3.69	n.a.	BMB
5	5.56	Chloride	0.072	0.006	4.87	0.020	BMB
6	6.56	n.a.	0.017	0.004	2.99	n.a.	BMB
7	7.10	Carbonate	0.314	0.044	34.13	n.a.	BMB
8	7.81	Sulfate	0.433	0.043	33.00	0.182	BMB
9	8.56	n.a.	0.035	0.004	3.01	n.a.	BMB
10	9.49	Nitrate	0.079	0.012	9.05	n.a.	BMB
Total:			1.073	0.130	100.00	0.843	

35 E124405-16

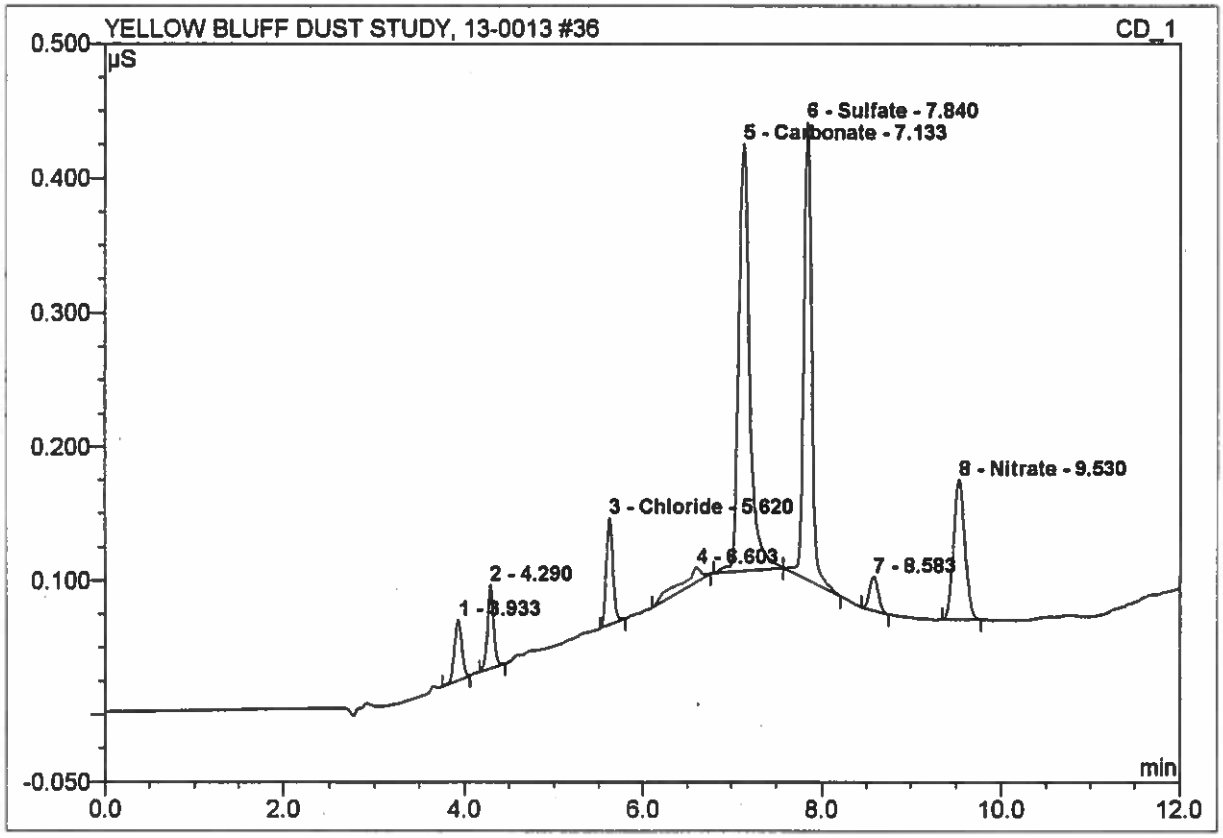
Sample Name:	**E124405-16**	*Injection Volume:*	**25.0**
Vial Number:	**28**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 3:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.92	n.a.	0.047	0.005	3.05	n.a.	BMB
2	4.29	n.a.	0.048	0.004	2.40	n.a.	BMB
3	4.58	n.a.	0.013	0.001	0.68	n.a.	BMB
4	5.62	Chloride	0.154	0.013	8.11	0.041	BMB
5	7.13	Carbonate	0.313	0.044	27.11	n.a.	BMb
6	7.84	Sulfate	0.666	0.066	40.69	0.279	bMB
7	8.58	n.a.	0.055	0.006	3.79	n.a.	BMB
8	9.53	Nitrate	0.155	0.023	14.16	n.a.	BMB
Total:			1.451	0.162	100.00	0.320	

36 E124405-17

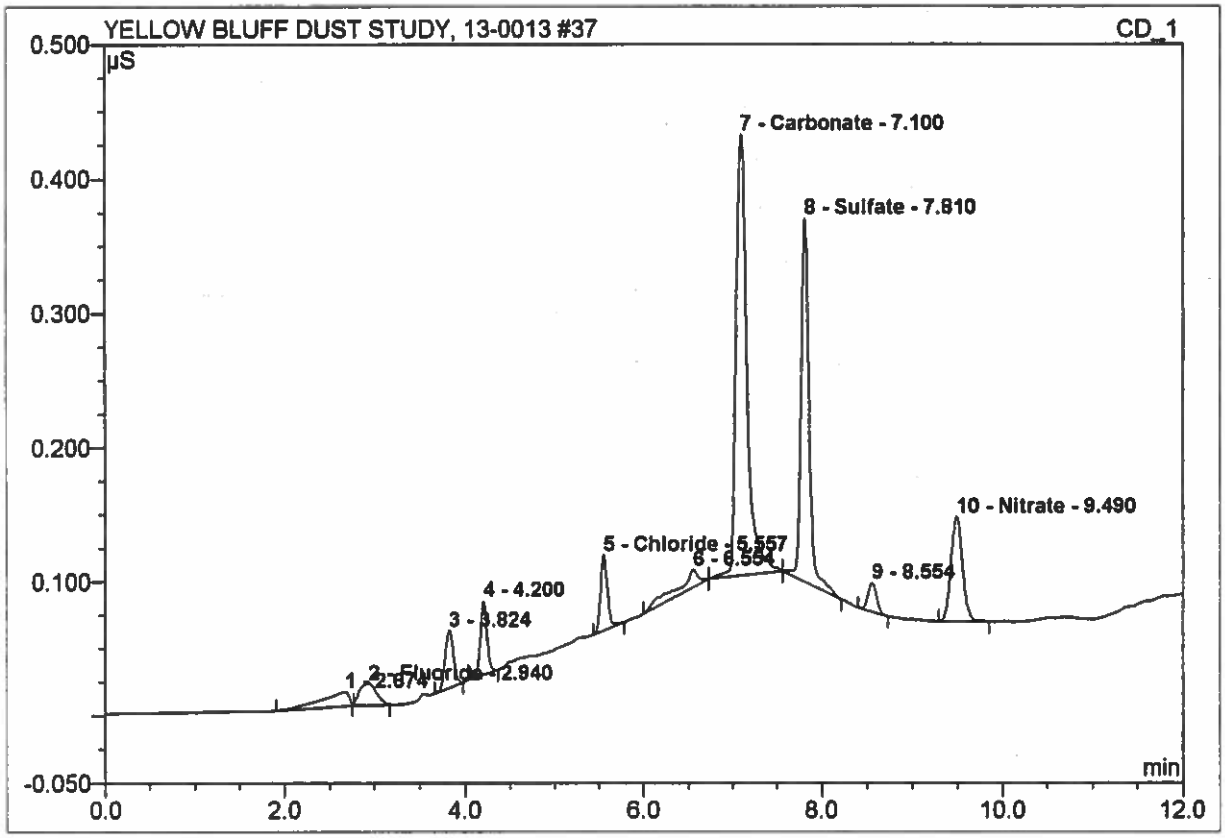
Sample Name:	**E124405-17**	*Injection Volume:*	**25.0**
Vial Number:	**29**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 3:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.045	0.004	3.63	n.a.	BMB
2	4.29	n.a.	0.062	0.005	4.28	n.a.	BMB
3	5.62	Chloride	0.080	0.007	5.81	0.021	BMB
4	6.60	n.a.	0.011	0.003	2.77	n.a.	BMB
5	7.13	Carbonate	0.318	0.045	38.66	n.a.	BMb
6	7.84	Sulfate	0.341	0.034	29.38	0.146	bMB
7	8.58	n.a.	0.025	0.003	2.45	n.a.	BMB
8	9.53	Nitrate	0.104	0.015	13.02	n.a.	BMB
Total:			0.986	0.117	100.00	0.167	

37 E124405-18

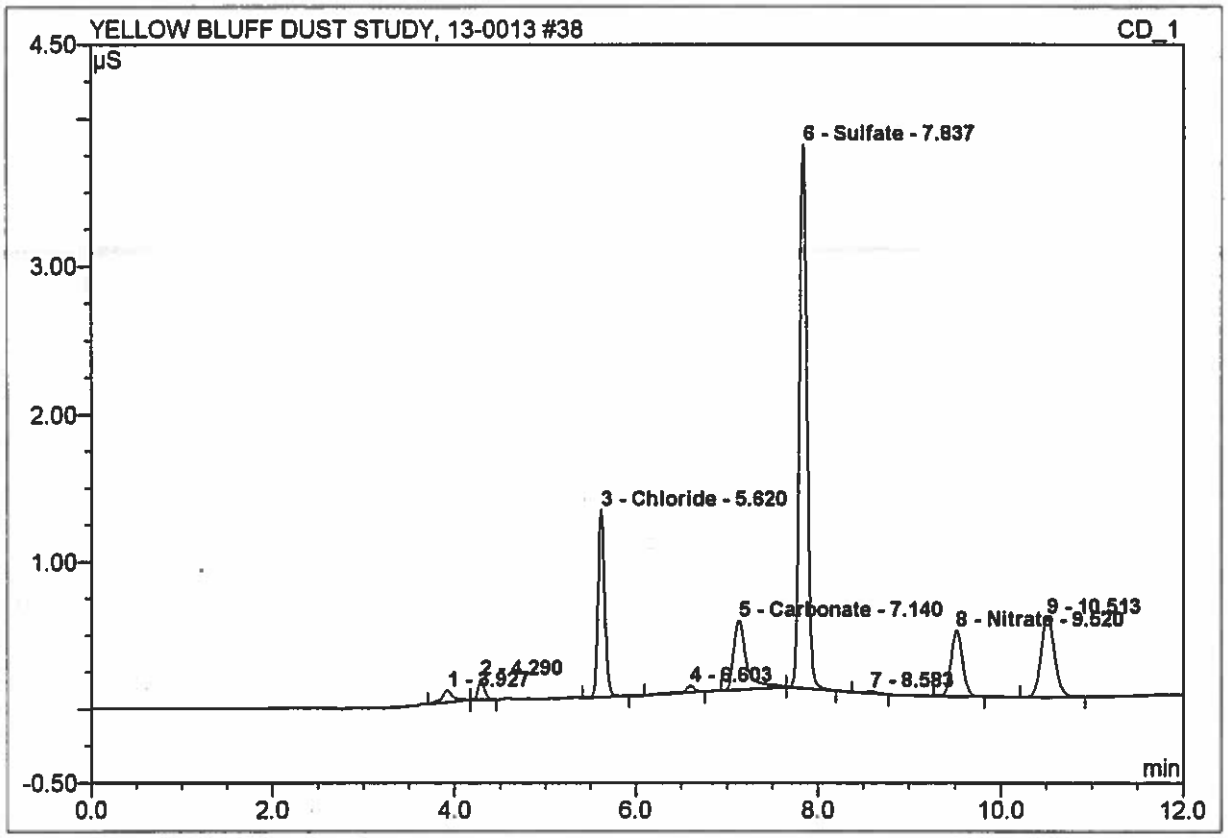
Sample Name:	**E124405-18**	*Injection Volume:*	**25.0**
Vial Number:	**30**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 3:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	3.36	n.a.	BMB
2	2.94	Fluoride	0.016	0.004	3.07	0.638	BMB
3	3.82	n.a.	0.043	0.005	3.99	n.a.	BMB
4	4.20	n.a.	0.055	0.005	4.12	n.a.	BMB
5	5.56	Chloride	0.056	0.005	4.45	0.016	BMB
6	6.55	n.a.	0.013	0.004	3.16	n.a.	BMB
7	7.10	Carbonate	0.328	0.047	41.27	n.a.	bMB
8	7.81	Sulfate	0.271	0.028	24.28	0.118	bMB
9	8.55	n.a.	0.021	0.002	2.07	n.a.	BMB
10	9.49	Nitrate	0.078	0.012	10.22	n.a.	BMB
Total:			0.892	0.115	100.00	0.773	

38 E124405-19

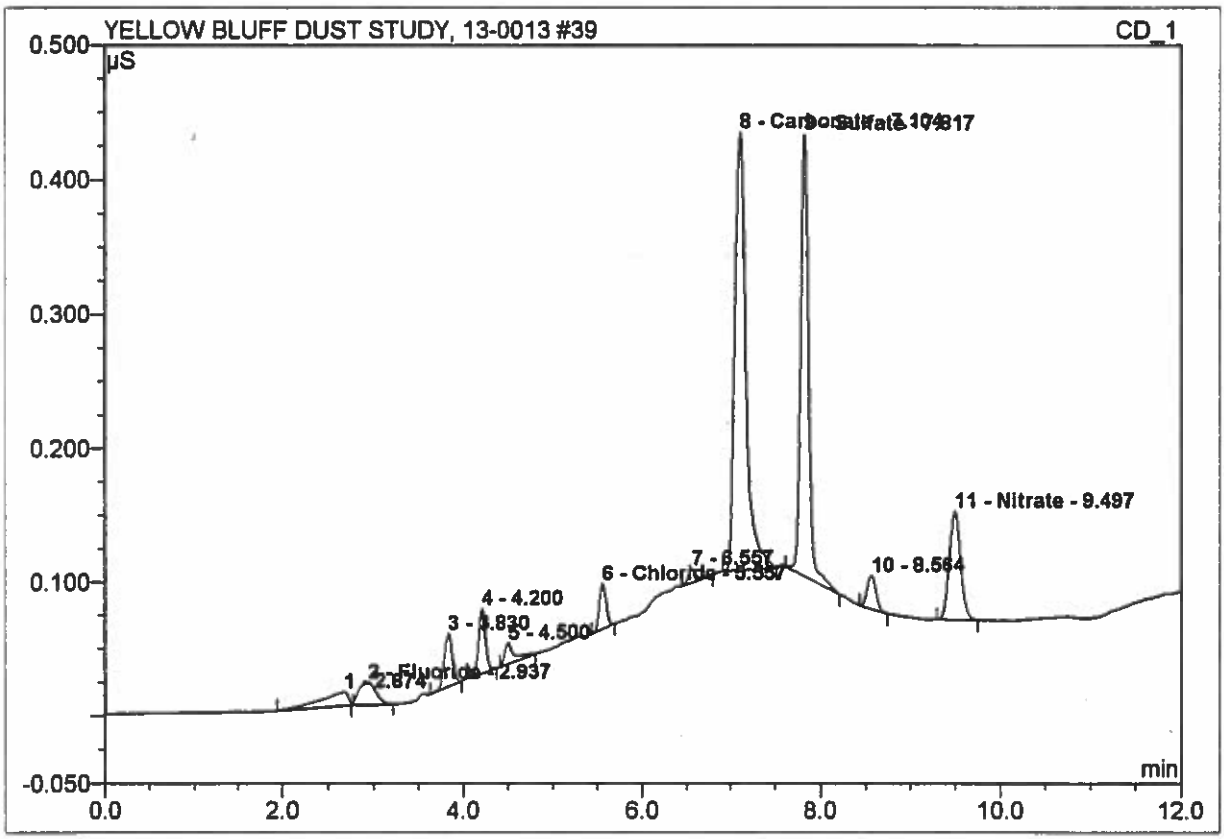
Sample Name:	**E124405-19**	*Injection Volume:*	**25.0**
Vial Number:	**31**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 4:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.079	0.012	1.58	n.a.	BMB
2	4.29	n.a.	0.139	0.011	1.57	n.a.	bMB
3	5.62	Chloride	1.270	0.108	14.88	0.340	BMB
4	6.60	n.a.	0.045	0.006	0.84	n.a.	BMB
5	7.14	Carbonate	0.466	0.076	10.39	n.a.	BMB
6	7.84	Sulfate	3.681	0.352	48.28	1.490	bMB
7	8.58	n.a.	0.016	0.002	0.30	n.a.	BMB
8	9.52	Nitrate	0.448	0.066	9.07	n.a.	BMB
9	10.51	n.a.	0.537	0.095	13.08	n.a.	BMB
Total:			6.681	0.728	100.00	1.830	

39 E124405-20

Sample Name:	**E124405-20**	*Injection Volume:*	**25.0**
Vial Number:	**32**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 4:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

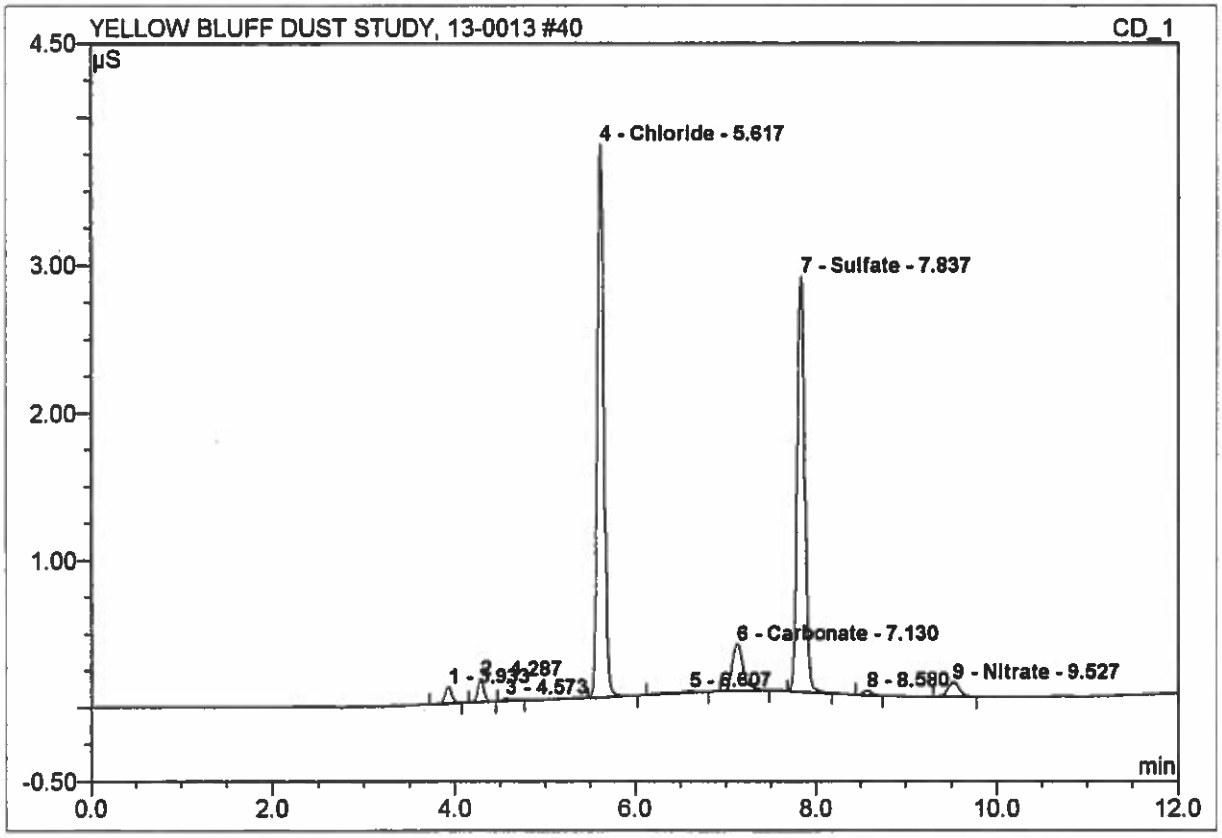


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	3.20	n.a.	BMB
2	2.94	Fluoride	0.016	0.004	3.14	0.658	BMB
3	3.83	n.a.	0.040	0.004	3.58	n.a.	BMB
4	4.20	n.a.	0.049	0.004	3.68	n.a.	BMB
5	4.50	n.a.	0.015	0.002	1.61	n.a.	BMB
6	5.56	Chloride	0.034	0.003	2.57	0.009	BMB
7	6.56	n.a.	0.010	0.001	0.99	n.a.	BMB
8	7.10	Carbonate	0.326	0.046	40.03	n.a.	BMB
9	7.82	Sulfate	0.329	0.033	28.46	0.140	BMB
10	8.56	n.a.	0.025	0.003	2.40	n.a.	BMB
11	9.50	Nitrate	0.081	0.012	10.33	n.a.	BMB

Total:		0.936	0.116	100.00	0.807

40 1211086-MS2

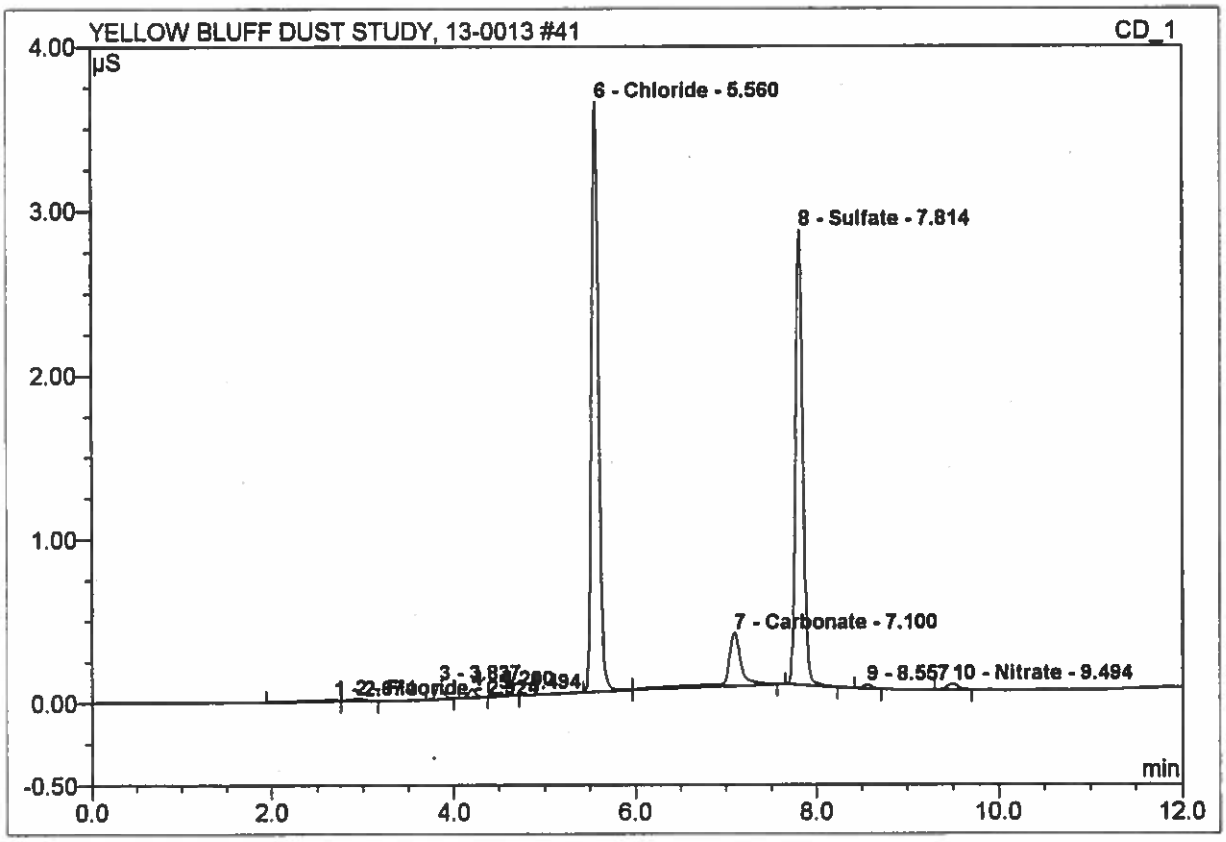
Sample Name:	**1211086-MS2**	*Injection Volume:*	**25.0**
Vial Number:	**33**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 5:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.112	0.010	1.42	n.a.	BMB
2	4.29	n.a.	0.154	0.012	1.81	n.a.	BMB
3	4.57	n.a.	0.020	0.002	0.28	n.a.	BMB
4	5.62	Chloride	3.745	0.322	47.41	1.010	BMB
5	6.61	n.a.	0.012	0.004	0.53	n.a.	BMB
6	7.13	Carbonate	0.320	0.044	6.50	n.a.	BMB
7	7.84	Sulfate	2.816	0.267	39.39	1.133	BMB
8	8.58	n.a.	0.031	0.004	0.52	n.a.	BMB
9	9.53	Nitrate	0.099	0.015	2.14	n.a.	BMB
Total:			7.310	0.679	100.00	2.143	

41 1211086-MSD2

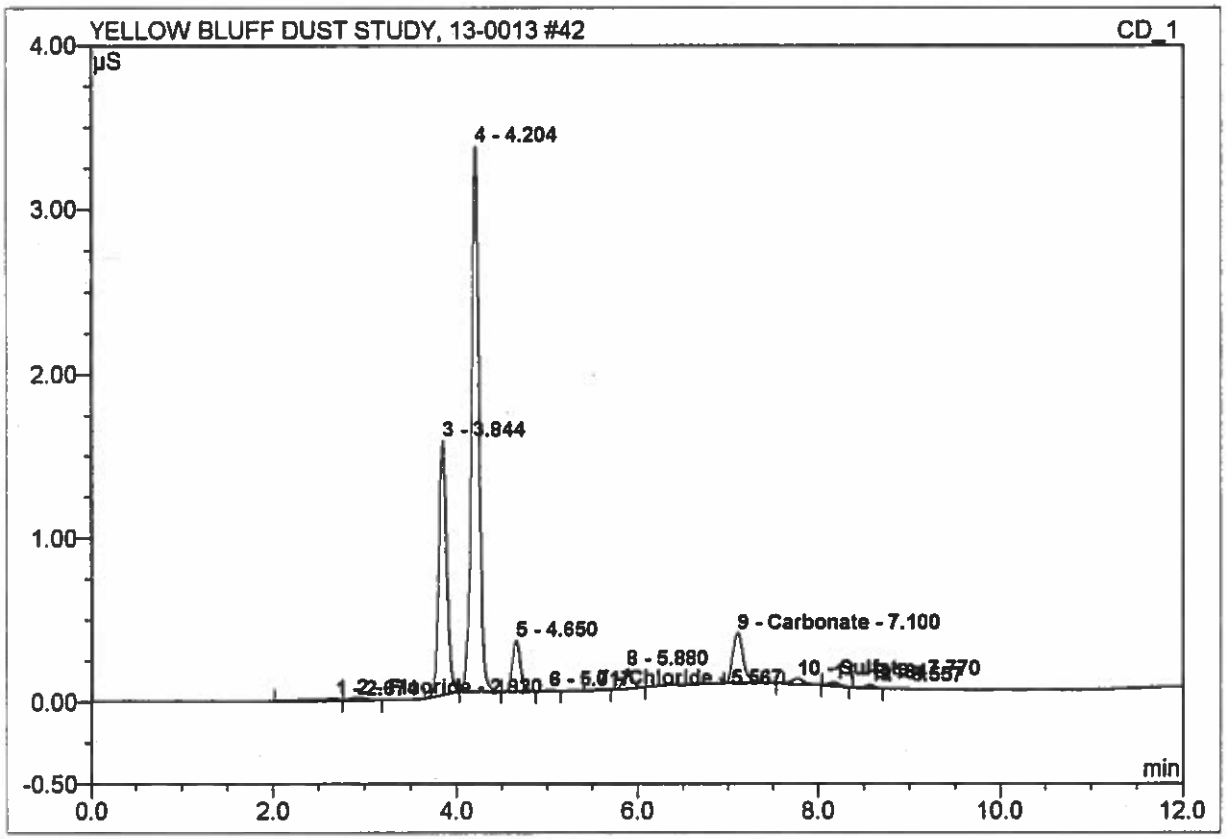
Sample Name:	**1211086-MSD2**	*Injection Volume:*	**25.0**
Vial Number:	**34**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 5:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	0.56	n.a.	BMB
2	2.92	Fluoride	0.016	0.003	0.52	0.626	BMB
3	3.84	n.a.	0.093	0.008	1.22	n.a.	BMB
4	4.20	n.a.	0.049	0.004	0.66	n.a.	BMB
5	4.49	n.a.	0.020	0.002	0.32	n.a.	BMB
6	5.56	Chloride	3.596	0.318	47.45	0.998	BMB
7	7.10	Carbonate	0.325	0.057	8.49	n.a.	bMB
8	7.81	Sulfate	2.777	0.265	39.56	1.124	BMB
9	8.56	n.a.	0.026	0.003	0.43	n.a.	BMB
10	9.49	Nitrate	0.037	0.005	0.80	n.a.	BMB
Total:			6.948	0.670	100.00	2.748	

42 Rinse Water

Sample Name:	**Rinse Water**	*Injection Volume:*	**25.0**
Vial Number:	**100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 5:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

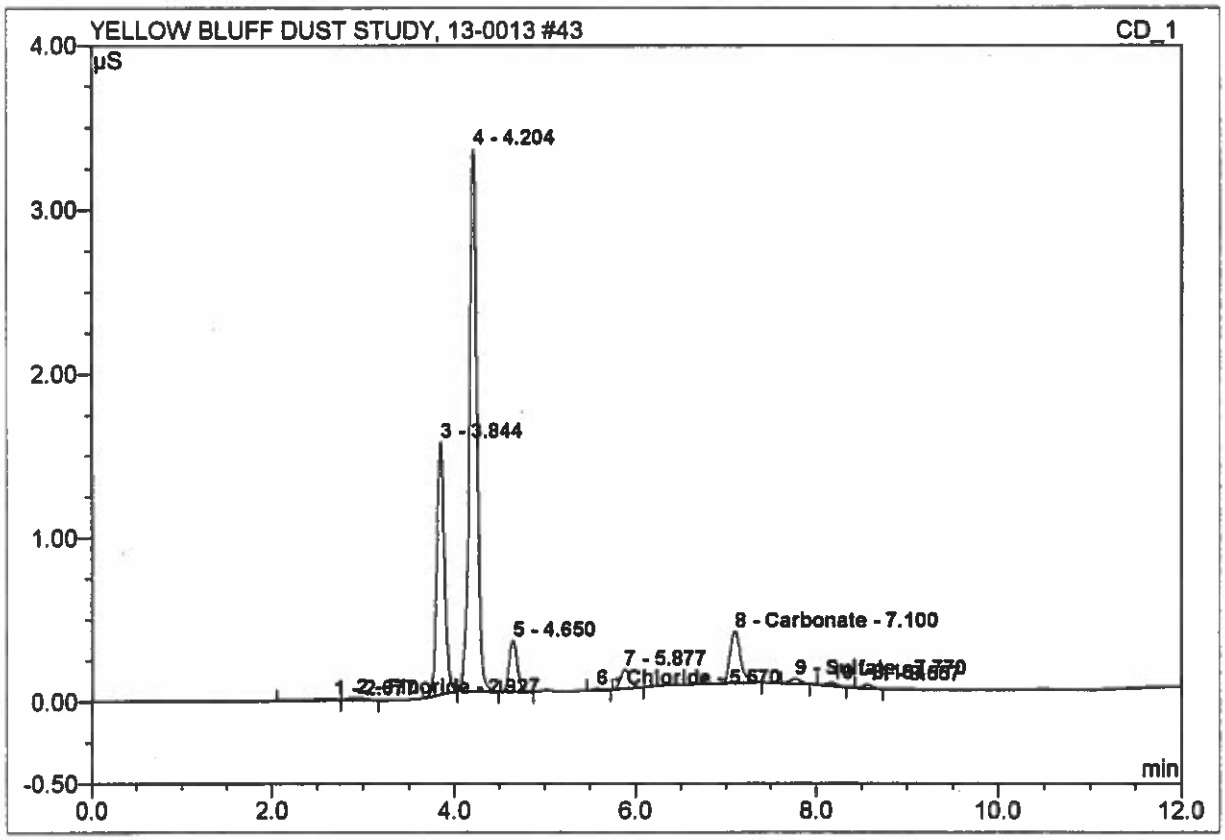


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	0.62	n.a.	BMB
2	2.92	Fluoride	0.016	0.003	0.61	0.630	BMB
3	3.84	n.a.	1.555	0.154	26.88	n.a.	BMB
4	4.20	n.a.	3.321	0.312	54.35	n.a.	bMB
5	4.65	n.a.	0.313	0.032	5.54	n.a.	BMB
6	5.02	n.a.	0.011	0.001	0.18	n.a.	BMB
7	5.57	Chloride	0.010	0.001	0.19	0.003	BMB
8	5.88	n.a.	0.120	0.014	2.39	n.a.	BMB
9	7.10	Carbonate	0.310	0.043	7.45	n.a.	BMB
10	7.77	Sulfate	0.033	0.005	0.86	0.021	BMB
11	8.16	n.a.	0.019	0.003	0.52	n.a.	BMB

12	8.56	n.a.	0.020	0.002	0.41	n.a.	BMB
Total:			5.739	0.573	100.00	0.654	

43 1211086-BLK5

Sample Name:	**1211086-BLK5**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 6:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

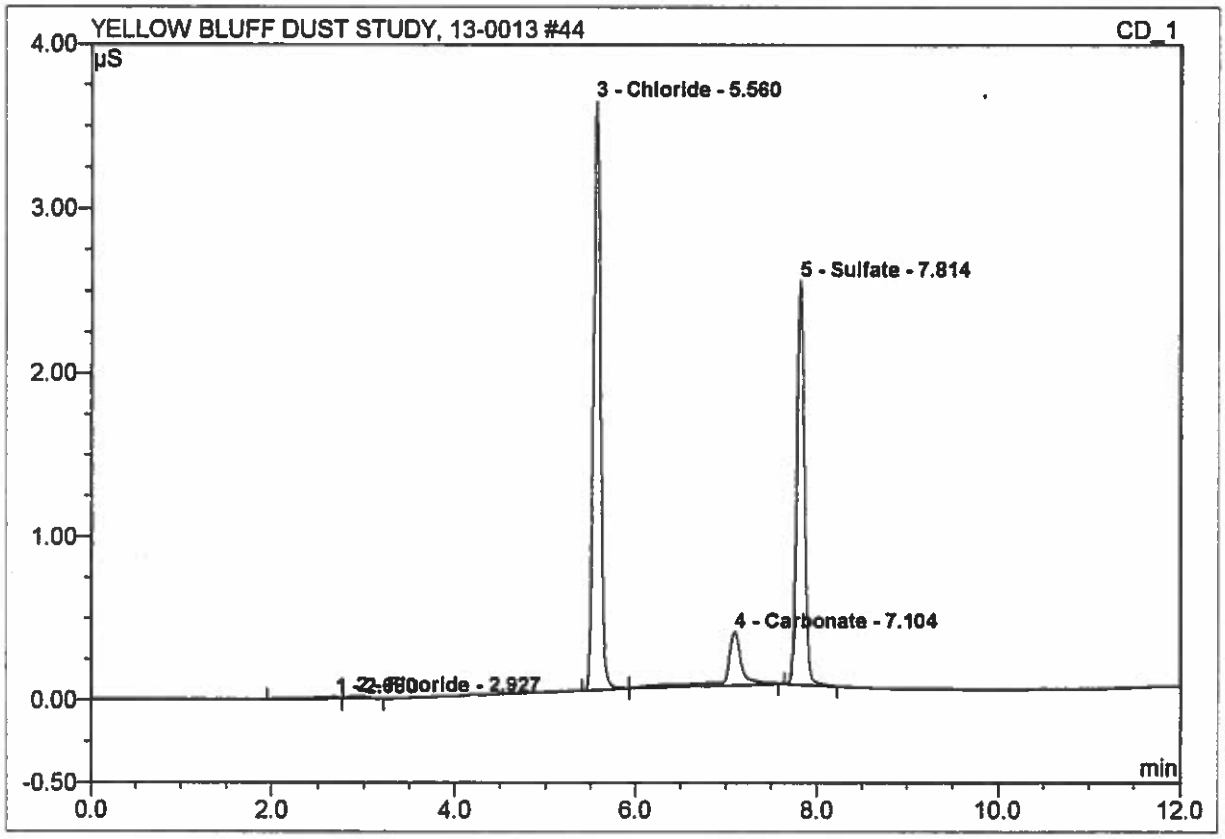


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.010	0.003	0.59	n.a.	BMB
2	2.93	Fluoride	0.016	0.003	0.61	0.624	BMB
3	3.84	n.a.	1.544	0.153	26.91	n.a.	BMb
4	4.20	n.a.	3.306	0.310	54.47	n.a.	bMB
5	4.65	n.a.	0.311	0.032	5.58	n.a.	BMB
6	5.57	Chloride	0.011	0.001	0.19	0.003	BMB
7	5.88	n.a.	0.120	0.014	2.40	n.a.	BMB
8	7.10	Carbonate	0.317	0.043	7.60	n.a.	BMB
9	7.77	Sulfate	0.031	0.004	0.74	0.018	BMB
10	8.16	n.a.	0.018	0.003	0.47	n.a.	BMB
11	8.56	n.a.	0.022	0.003	0.44	n.a.	BMB

Total:		5.706	0.569	100.00	0.645

44 1211086-CCV3

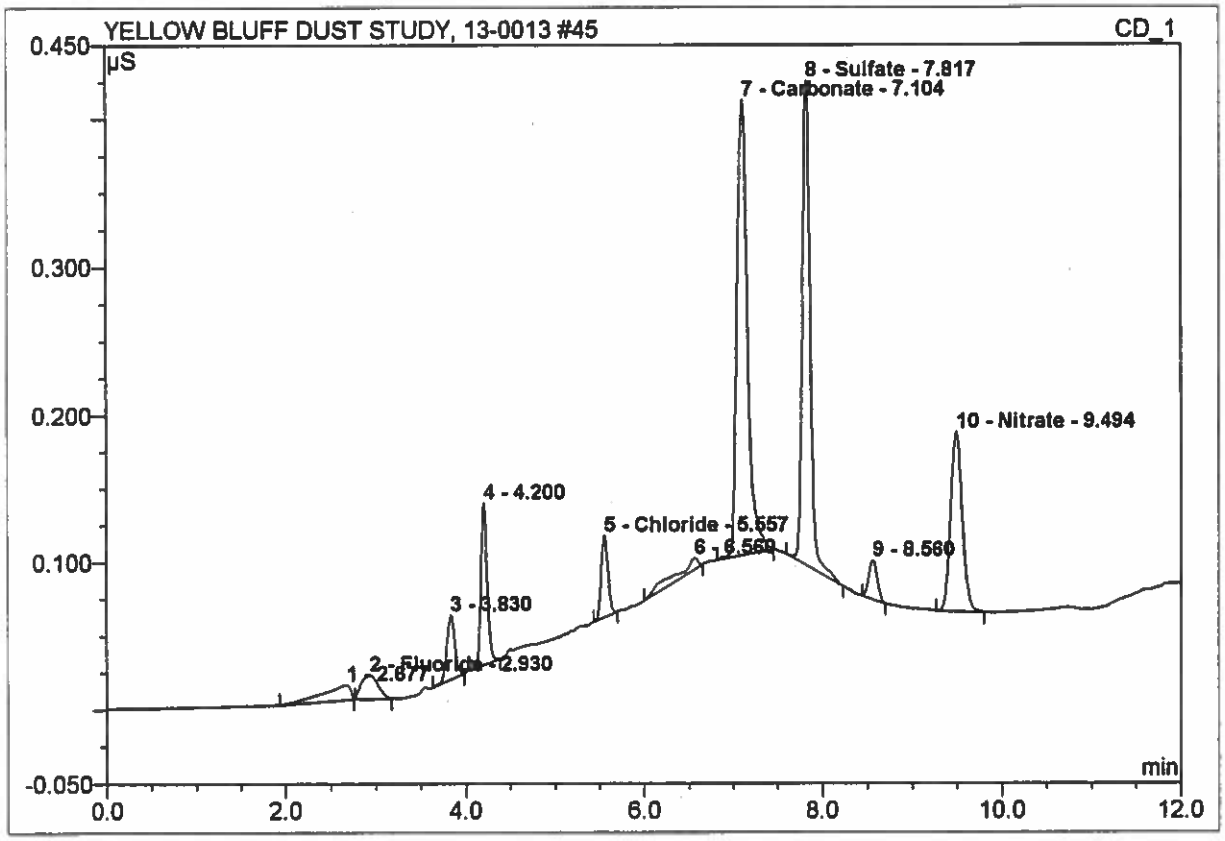
Sample Name:	**1211086-CCV3**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 6:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.010	0.004	0.59	n.a.	BMB
2	2.93	Fluoride	0.016	0.003	0.56	0.624	BMB
3	5.56	Chloride	3.588	0.317	51.24	0.996	BMb
4	7.10	Carbonate	0.326	0.059	9.56	n.a.	bMB
5	7.81	Sulfate	2.464	0.236	38.04	0.998	BMB
Total:			6.403	0.619	100.00	2.619	

45 E124405-21

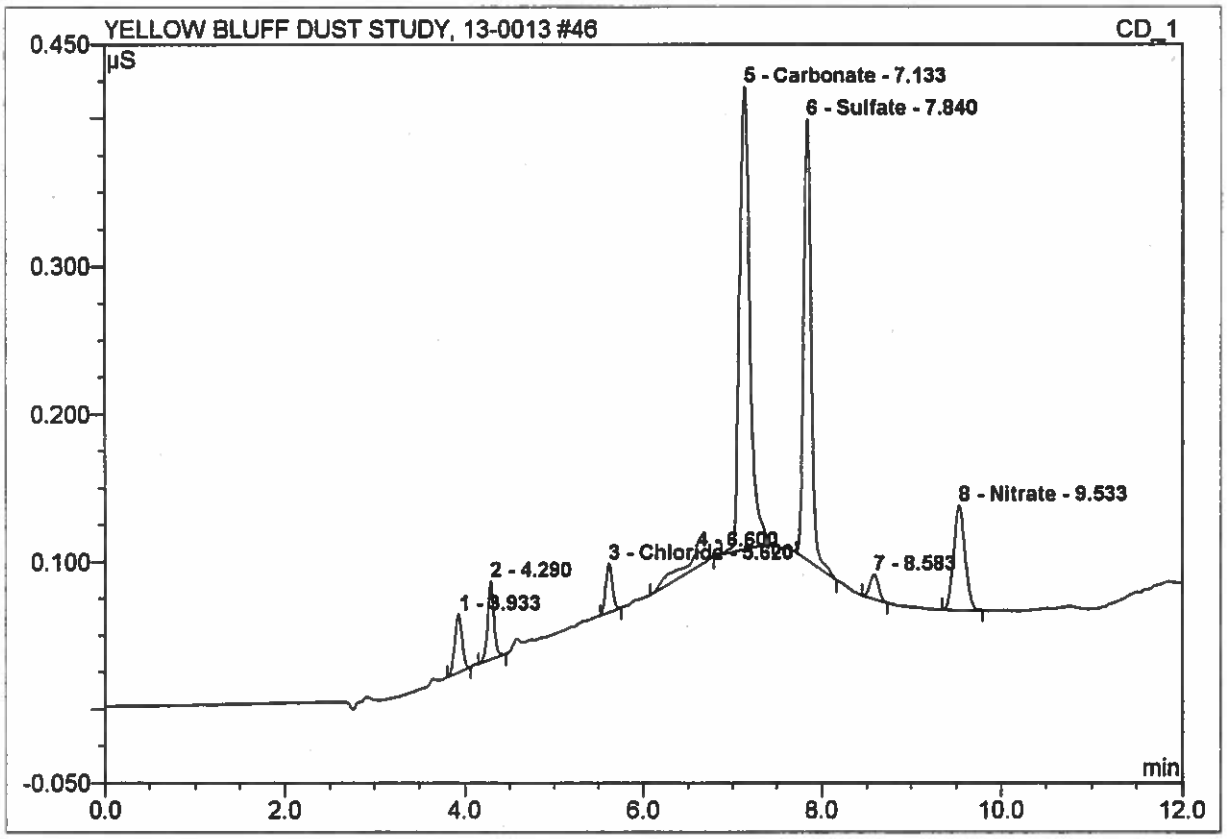
Sample Name:	**E124405-21**	*Injection Volume:*	**25.0**
Vial Number:	**35**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 6:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.68	n.a.	0.010	0.004	2.93	n.a.	BMB
2	2.93	Fluoride	0.016	0.003	2.76	0.622	BMB
3	3.83	n.a.	0.043	0.004	3.61	n.a.	BMB
4	4.20	n.a.	0.110	0.009	7.39	n.a.	BMB
5	5.56	Chloride	0.055	0.005	3.84	0.015	BMB
6	6.56	n.a.	0.008	0.003	2.14	n.a.	BMB
7	7.10	Carbonate	0.308	0.042	33.98	n.a.	BMB
8	7.82	Sulfate	0.328	0.033	26.40	0.139	BMB
9	8.56	n.a.	0.026	0.003	2.35	n.a.	BMB
10	9.49	Nitrate	0.122	0.018	14.60	n.a.	BMB
Total:			1.027	0.124	100.00	0.776	

46 E124405-22

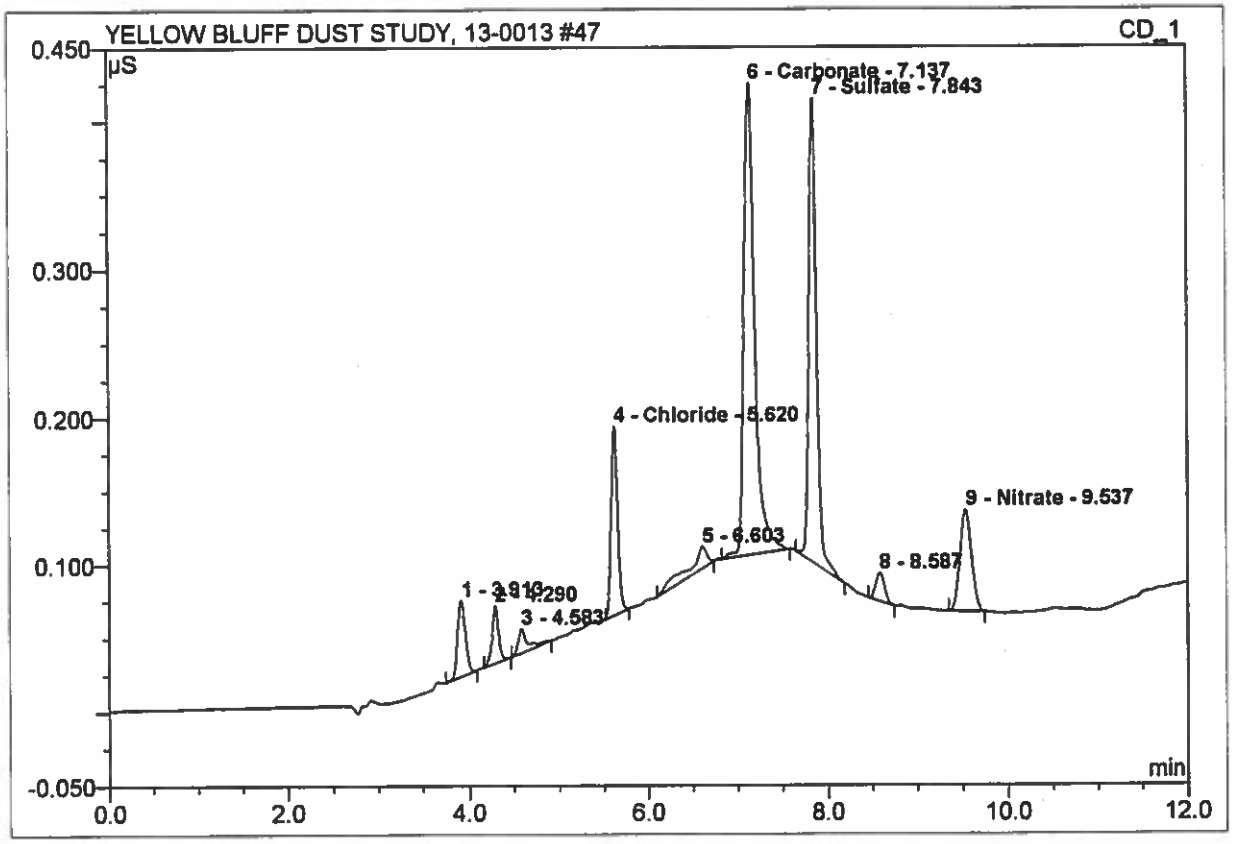
Sample Name:	**E124405-22**	*Injection Volume:*	**25.0**
Vial Number:	**36**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 7:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.040	0.004	3.76	n.a.	BMB
2	4.29	n.a.	0.053	0.004	4.46	n.a.	BMB
3	5.62	Chloride	0.033	0.003	2.87	0.009	BMB
4	6.60	n.a.	0.011	0.003	3.32	n.a.	BMB
5	7.13	Carbonate	0.313	0.043	43.35	n.a.	BMB
6	7.84	Sulfate	0.298	0.029	29.65	0.123	BMB
7	8.58	n.a.	0.017	0.002	1.91	n.a.	BMB
8	9.53	Nitrate	0.071	0.010	10.68	n.a.	BMB
Total:			0.835	0.098	100.00	0.132	

47 E124405-23

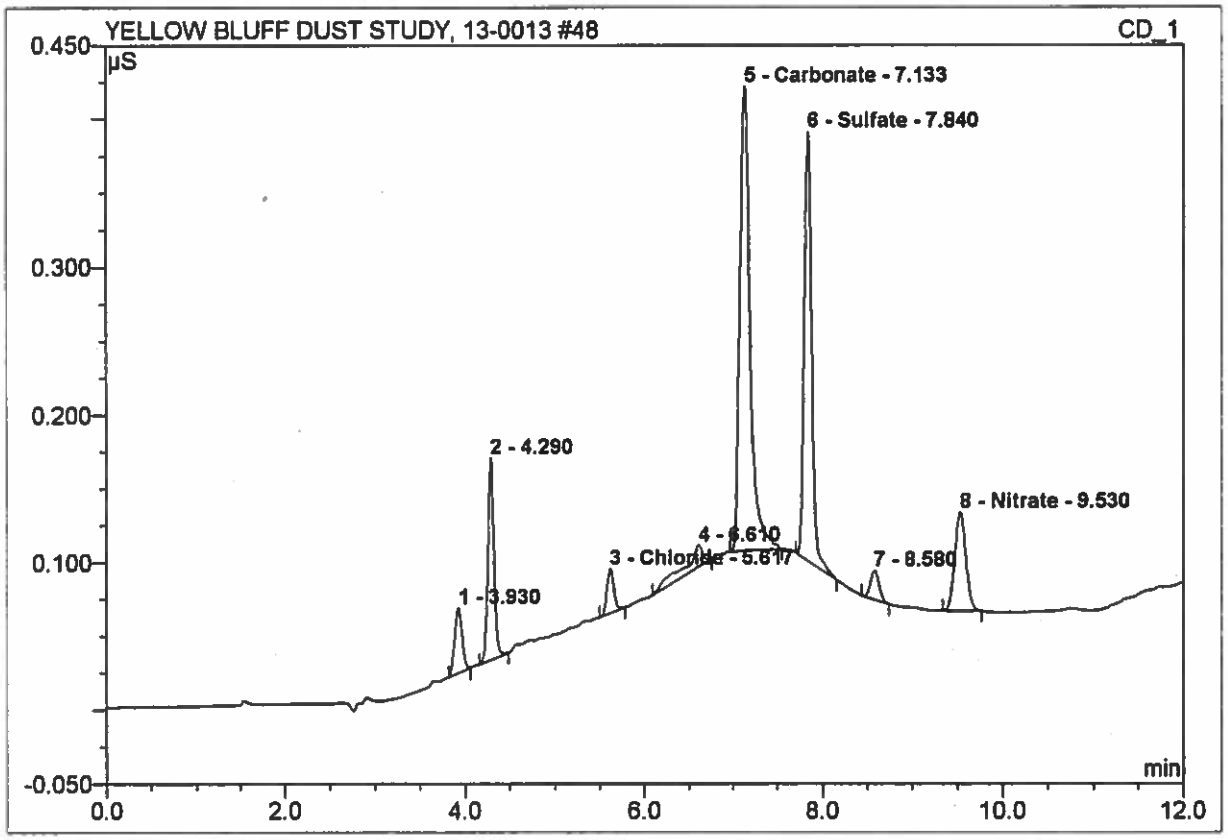
Sample Name:	E124405-23	*Injection Volume:*	25.0
Vial Number:	37	*Channel:*	CD_1
Sample Type:	unknown	*Wavelength:*	n.a.
Control Program:	gradient anion	*Bandwidth:*	n.a.
Quantif. Method:	gradient anion	*Dilution Factor:*	1.0000
Recording Time:	11/27/2012 7:31	*Sample Weight:*	1.0000
Run Time (min):	12.00	*Sample Amount:*	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.91	n.a.	0.052	0.005	4.58	n.a.	BMB
2	4.29	n.a.	0.039	0.003	2.91	n.a.	BMB
3	4.58	n.a.	0.016	0.002	1.61	n.a.	BMB
4	5.62	Chloride	0.128	0.011	9.69	0.034	BMB
5	6.60	n.a.	0.015	0.004	3.21	n.a.	BMB
6	7.14	Carbonate	0.319	0.045	39.85	n.a.	BMB
7	7.84	Sulfate	0.314	0.031	27.40	0.131	BMB
8	8.59	n.a.	0.019	0.002	1.88	n.a.	BMB
9	9.54	Nitrate	0.069	0.010	8.88	n.a.	BMB
Total:			0.972	0.113	100.00	0.166	

48 E124405-24

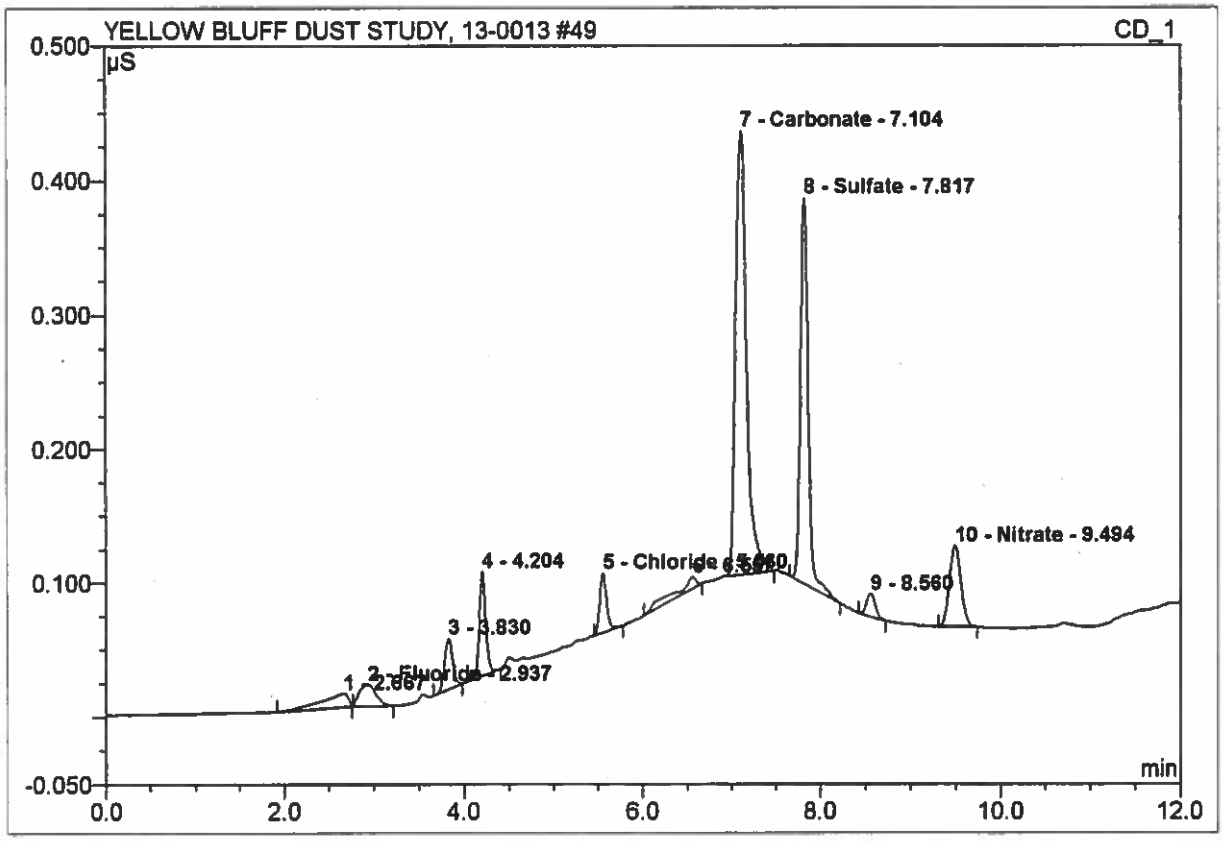
Sample Name:	**E124405-24**	*Injection Volume:*	**25.0**
Vial Number:	**38**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 7:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.93	n.a.	0.044	0.004	4.04	n.a.	BMB
2	4.29	n.a.	0.137	0.011	10.34	n.a.	BMB
3	5.62	Chloride	0.030	0.003	2.52	0.008	BMB
4	6.61	n.a.	0.014	0.004	3.36	n.a.	BMB
5	7.13	Carbonate	0.314	0.043	41.48	n.a.	BMB
6	7.84	Sulfate	0.291	0.028	26.82	0.119	BMB
7	8.58	n.a.	0.020	0.002	2.06	n.a.	BMB
8	9.53	Nitrate	0.067	0.010	9.37	n.a.	BMB
Total:			0.917	0.105	100.00	0.127	

49 E124405-25

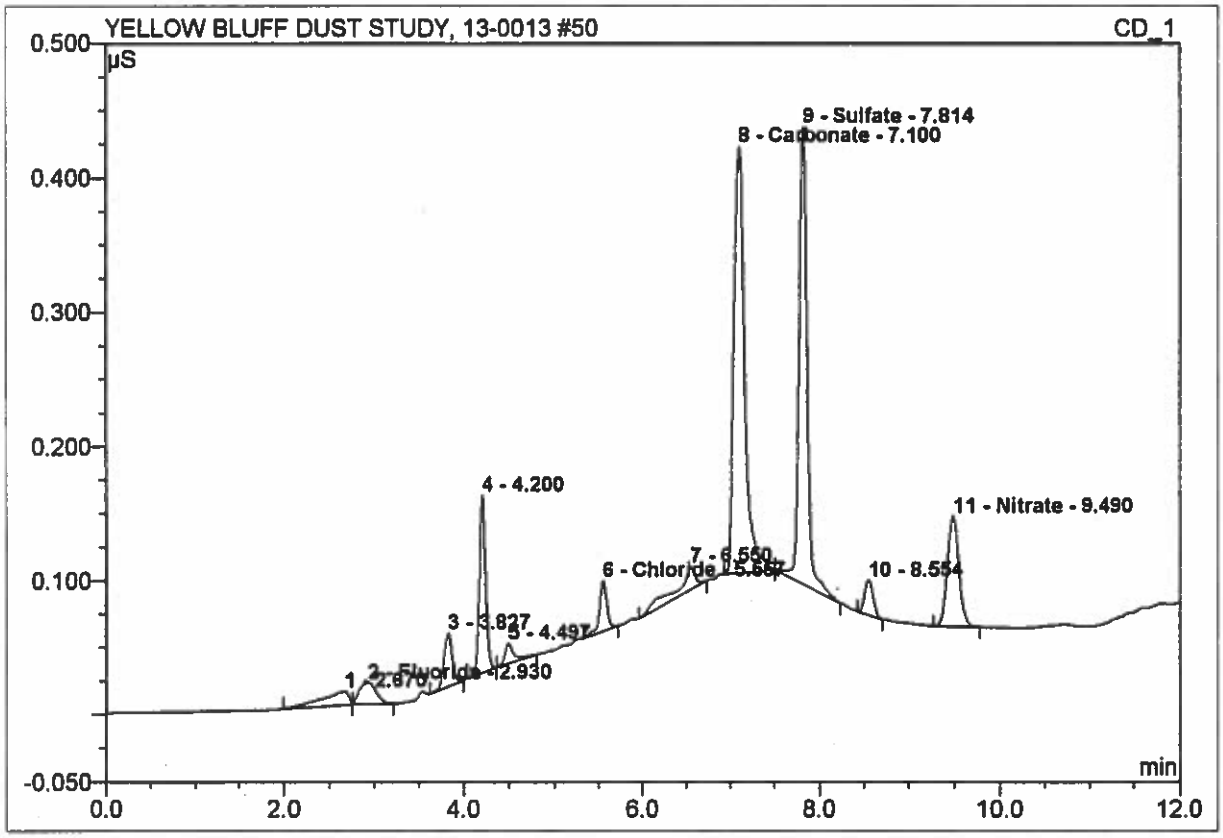
Sample Name:	**E124405-25**	*Injection Volume:*	**25.0**
Vial Number:	**39**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 8:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	3.34	n.a.	BMB
2	2.94	Fluoride	0.016	0.003	3.11	0.619	BMB
3	3.83	n.a.	0.038	0.004	3.50	n.a.	BMB
4	4.20	n.a.	0.078	0.007	6.00	n.a.	BMB
5	5.56	Chloride	0.044	0.004	3.63	0.013	BMB
6	6.56	n.a.	0.009	0.003	2.36	n.a.	BMB
7	7.10	Carbonate	0.331	0.046	42.10	n.a.	BMB
8	7.82	Sulfate	0.288	0.029	26.06	0.122	BMB
9	8.56	n.a.	0.017	0.002	1.79	n.a.	BMB
10	9.49	Nitrate	0.061	0.009	8.12	n.a.	BMB
Total:			0.890	0.110	100.00	0.753	

50 E124405-26

Sample Name:	**E124405-26**	*Injection Volume:*	**25.0**
Vial Number:	**40**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 8:35**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

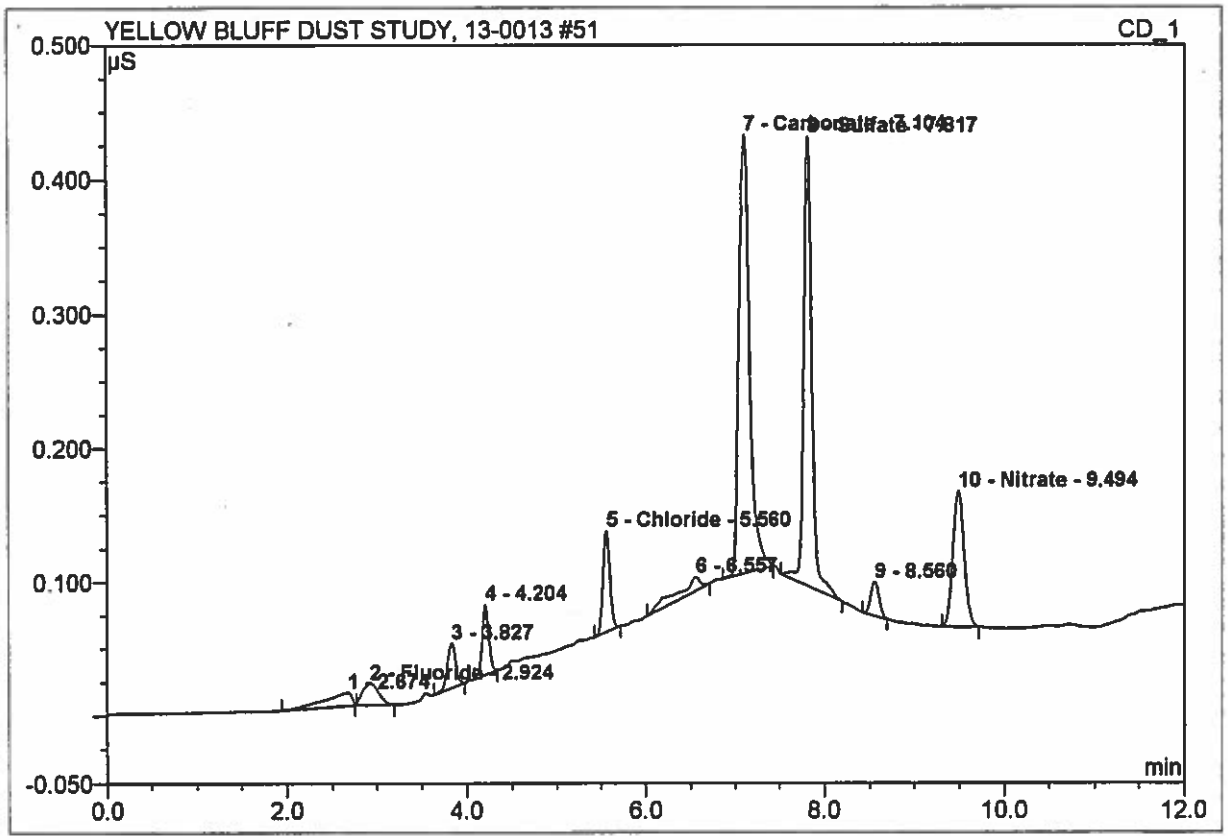


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	2.78	n.a.	BMB
2	2.93	Fluoride	0.016	0.003	2.75	0.625	BMB
3	3.83	n.a.	0.040	0.004	3.32	n.a.	BMB
4	4.20	n.a.	0.133	0.011	8.72	n.a.	BMB
5	4.50	n.a.	0.015	0.002	1.38	n.a.	BMB
6	5.56	Chloride	0.038	0.004	2.93	0.012	BMB
7	6.55	n.a.	0.017	0.004	3.46	n.a.	BMB
8	7.10	Carbonate	0.318	0.044	35.02	n.a.	BMb
9	7.81	Sulfate	0.340	0.035	27.62	0.147	bMB
10	8.55	n.a.	0.026	0.003	2.30	n.a.	BMB
11	9.49	Nitrate	0.082	0.012	9.72	n.a.	BMB

Total:		1.035	0.126	100.00	0.783

51 E124405-27

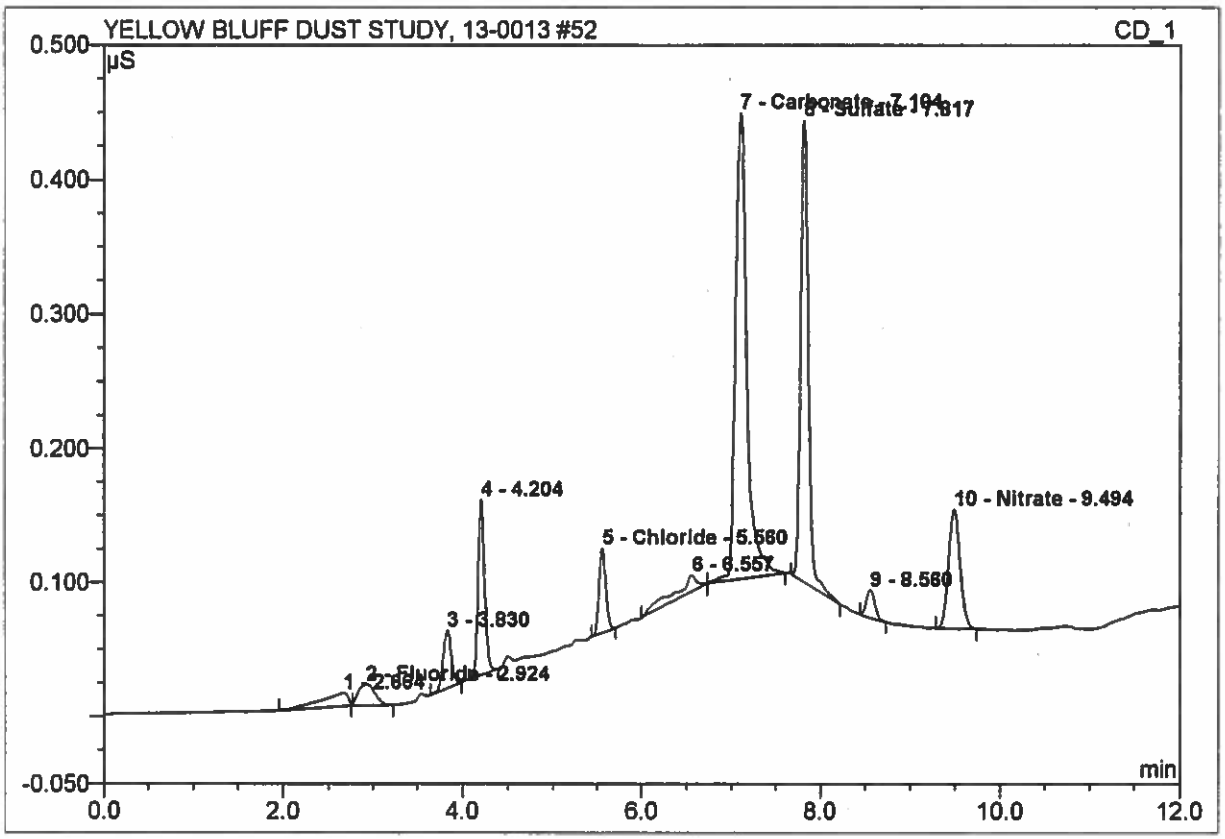
Sample Name:	**E124405-27**	*Injection Volume:*	**25.0**
Vial Number:	**41**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 8:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	2.89	n.a.	BMB
2	2.92	Fluoride	0.016	0.003	2.76	0.610	BMB
3	3.83	n.a.	0.034	0.004	2.99	n.a.	BMB
4	4.20	n.a.	0.053	0.004	3.67	n.a.	BMB
5	5.56	Chloride	0.076	0.007	5.41	0.021	BMB
6	6.56	n.a.	0.010	0.003	2.76	n.a.	BMB
7	7.10	Carbonate	0.326	0.045	36.83	n.a.	BMB
8	7.82	Sulfate	0.335	0.035	28.29	0.147	BMB
9	8.56	n.a.	0.025	0.003	2.27	n.a.	BMB
10	9.49	Nitrate	0.101	0.015	12.13	n.a.	BMB
Total:			0.986	0.122	100.00	0.777	

52 E124405-28

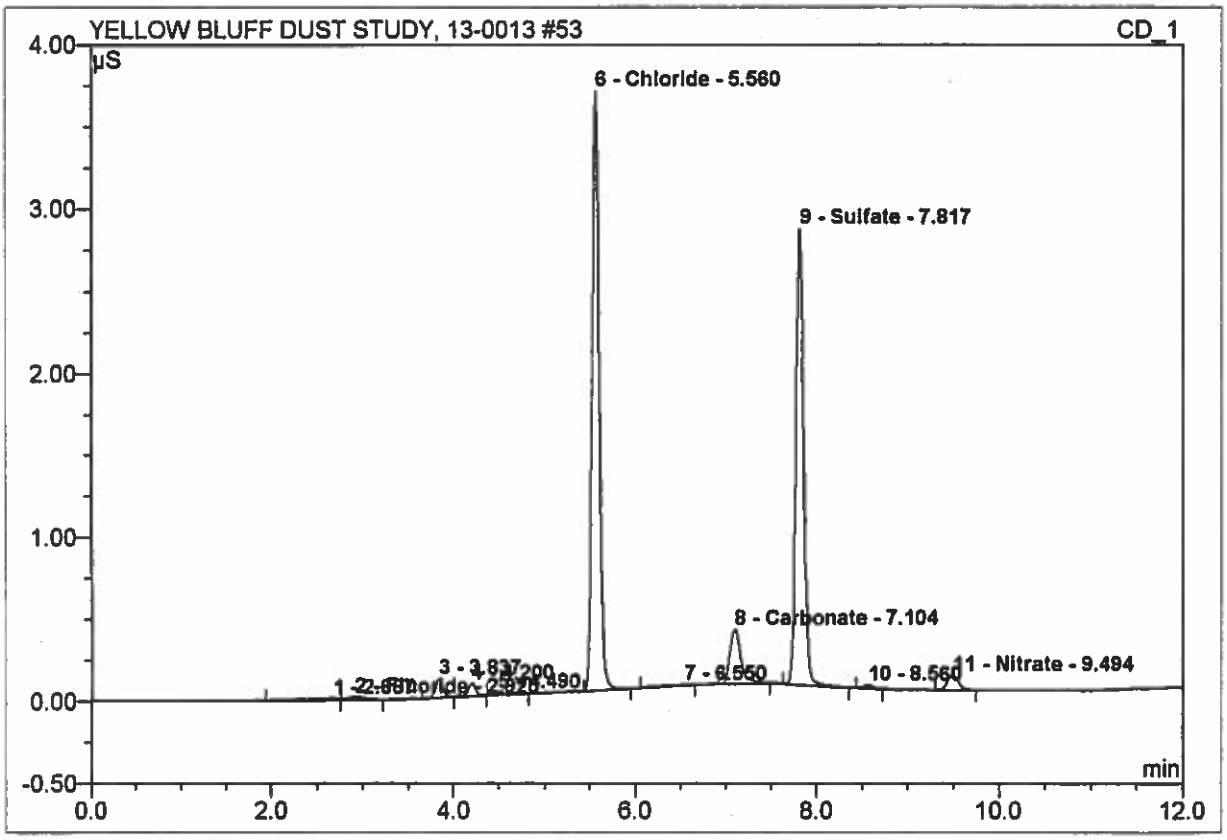
Sample Name:	**E124405-28**	*Injection Volume:*	**25.0**
Vial Number:	**42**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 9:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.66	n.a.	0.010	0.003	2.64	n.a.	BMB
2	2.92	Fluoride	0.016	0.003	2.57	0.613	BMB
3	3.83	n.a.	0.043	0.004	3.40	n.a.	BMB
4	4.20	n.a.	0.131	0.011	8.29	n.a.	BMB
5	5.56	Chloride	0.063	0.006	4.23	0.018	BMB
6	6.56	n.a.	0.012	0.004	2.80	n.a.	BMB
7	7.10	Carbonate	0.347	0.051	38.84	n.a.	bMB
8	7.82	Sulfate	0.344	0.034	25.58	0.143	BMB
9	8.56	n.a.	0.020	0.002	1.72	n.a.	BMB
10	9.49	Nitrate	0.089	0.013	9.93	n.a.	BMB
Total:			1.074	0.132	100.00	0.774	

53 1211086-MS3

Sample Name:	**1211086-MS3**	*Injection Volume:*	**25.0**
Vial Number:	**43**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 9:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

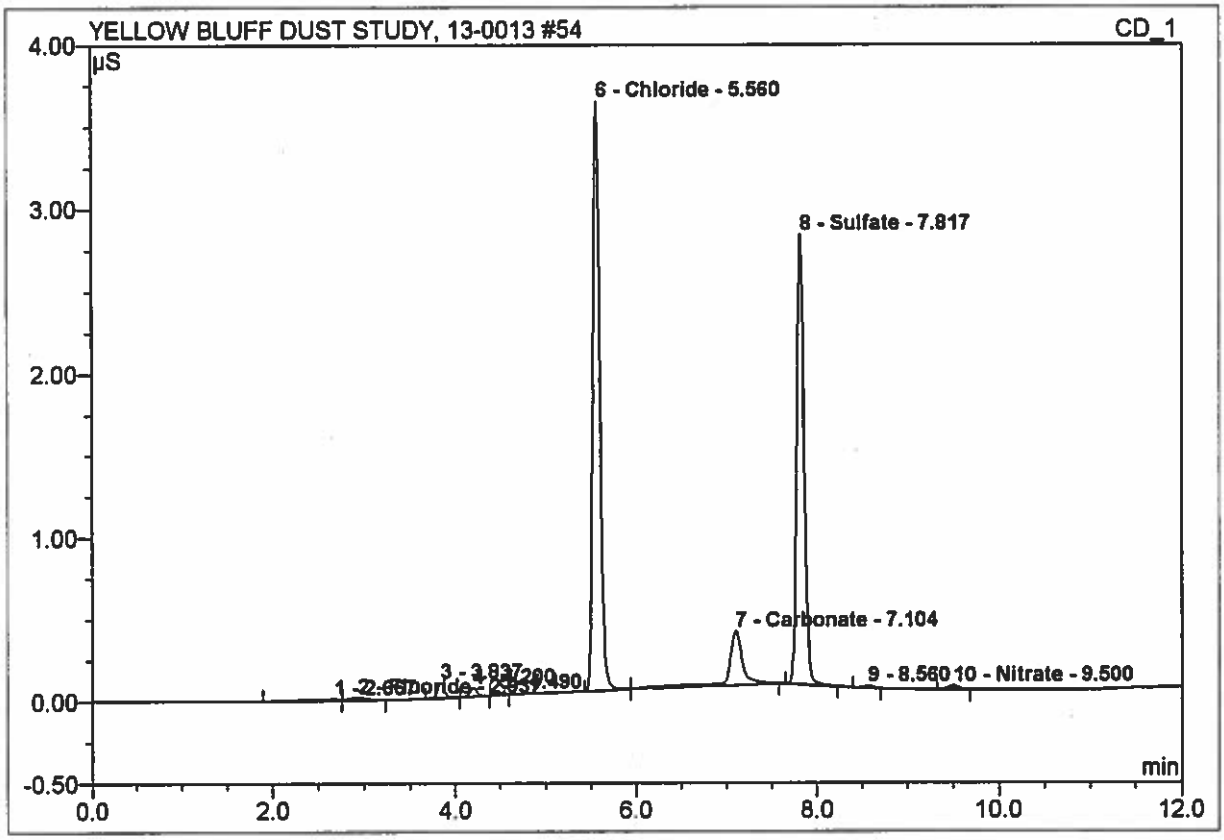


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	0.53	n.a.	BMB
2	2.92	Fluoride	0.016	0.003	0.50	0.619	BMB
3	3.84	n.a.	0.115	0.011	1.55	n.a.	BMB
4	4.20	n.a.	0.076	0.007	0.99	n.a.	BMB
5	4.49	n.a.	0.014	0.002	0.29	n.a.	BMB
6	5.56	Chloride	3.652	0.323	47.51	1.014	BMB
7	6.55	n.a.	0.008	0.003	0.37	n.a.	BMB
8	7.10	Carbonate	0.331	0.046	6.82	n.a.	BMB
9	7.82	Sulfate	2.779	0.267	39.18	1.129	BMB
10	8.56	n.a.	0.021	0.002	0.35	n.a.	BMB
11	9.49	Nitrate	0.089	0.013	1.92	n.a.	BMB

Total:		7.112	0.680	100.00	2.762

54 1211086-MSD3

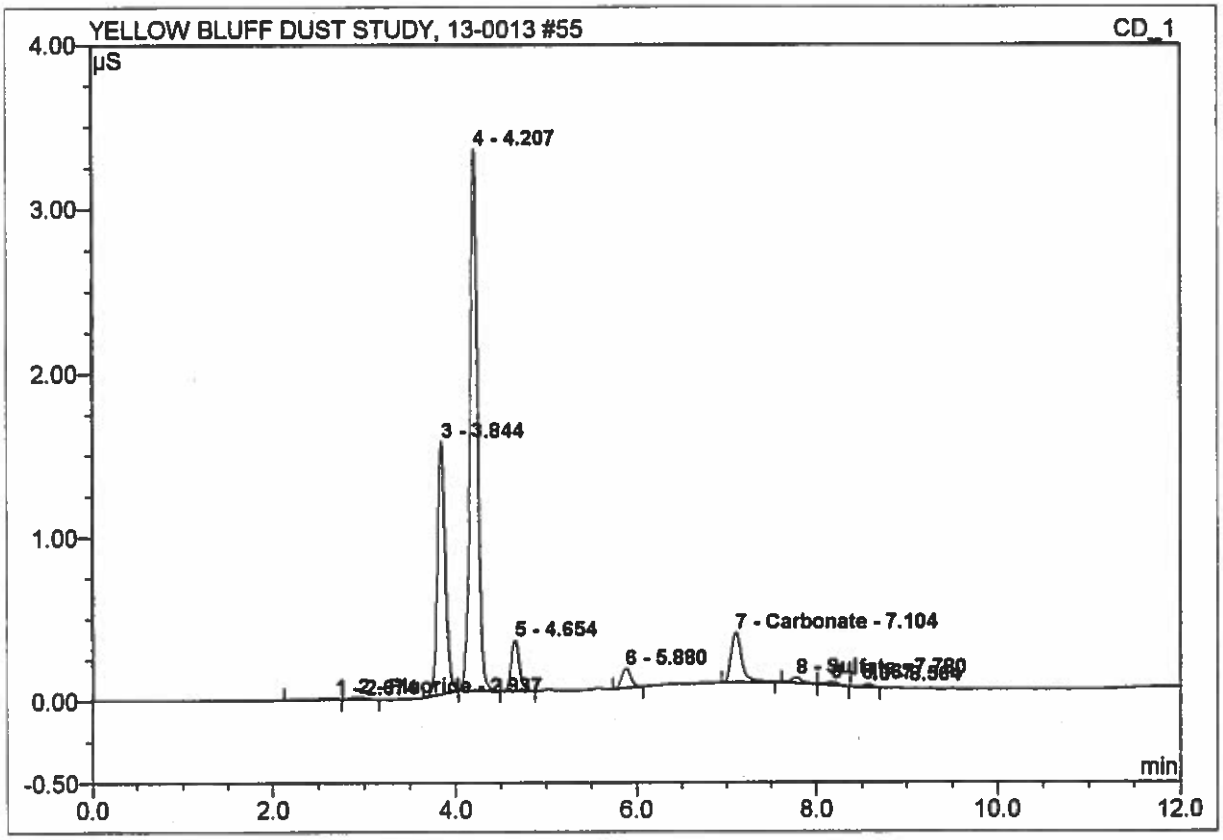
Sample Name:	**1211086-MSD3**	*Injection Volume:*	**25.0**
Vial Number:	**44**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 10:00**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.004	0.55	n.a.	BMB
2	2.94	Fluoride	0.016	0.003	0.52	0.629	BMB
3	3.84	n.a.	0.094	0.008	1.26	n.a.	BMB
4	4.20	n.a.	0.053	0.005	0.71	n.a.	BMB
5	4.49	n.a.	0.012	0.001	0.17	n.a.	BMB
6	5.56	Chloride	3.591	0.318	47.82	0.999	BMB
7	7.10	Carbonate	0.331	0.059	8.79	n.a.	BMB
8	7.82	Sulfate	2.744	0.262	39.42	1.112	BMB
9	8.56	n.a.	0.015	0.002	0.26	n.a.	BMB
10	9.50	Nitrate	0.023	0.003	0.50	n.a.	BMB
Total:			6.890	0.666	100.00	2.740	

55 Rinse Water

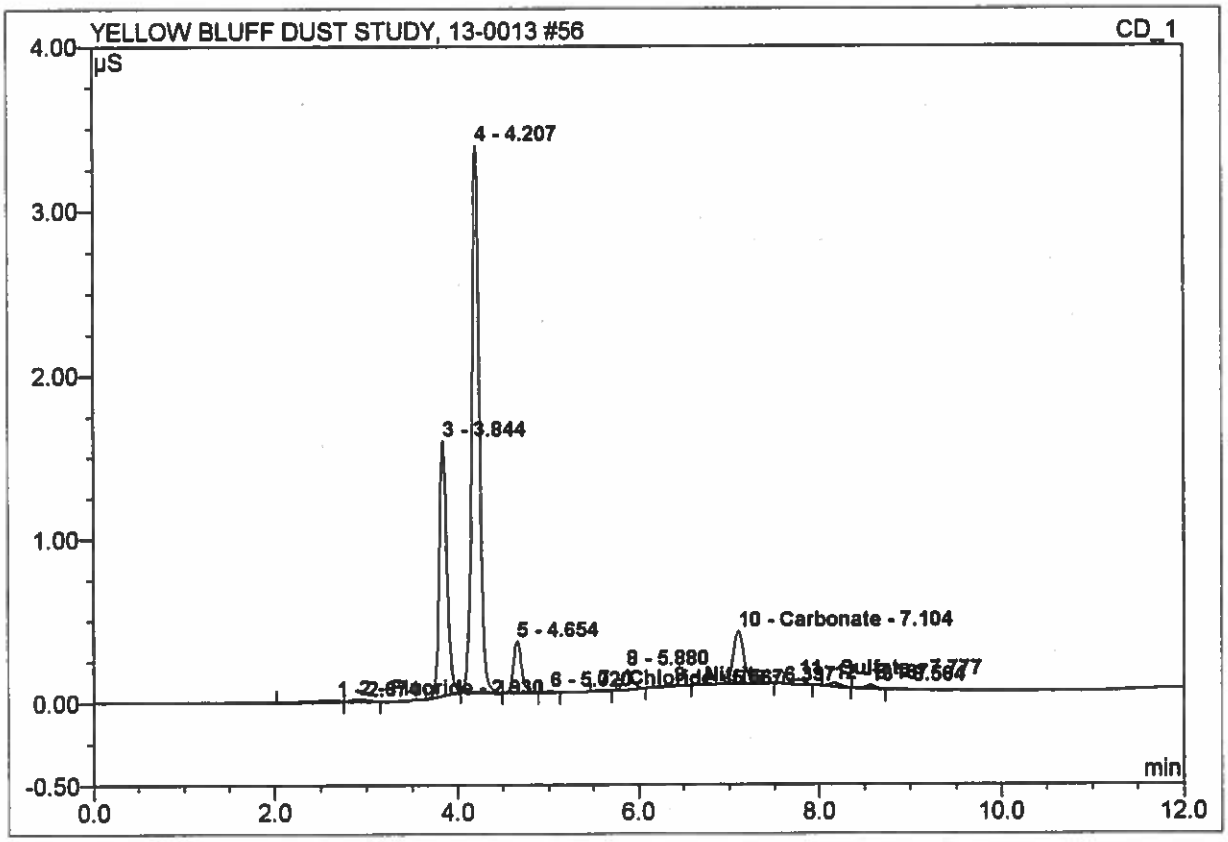
Sample Name:	**Rinse Water**	*Injection Volume:*	**25.0**
Vial Number:	**100**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 10:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.003	0.52	n.a.	BMB
2	2.94	Fluoride	0.015	0.003	0.59	0.606	BMB
3	3.84	n.a.	1.547	0.154	27.09	n.a.	BMb
4	4.21	n.a.	3.300	0.310	54.62	n.a.	bMB
5	4.65	n.a.	0.312	0.032	5.57	n.a.	BMB
6	5.88	n.a.	0.119	0.014	2.40	n.a.	BMB
7	7.10	Carbonate	0.307	0.043	7.51	n.a.	BMB
8	7.78	Sulfate	0.034	0.005	0.82	0.020	BMb
9	8.17	n.a.	0.018	0.003	0.49	n.a.	bMB
10	8.56	n.a.	0.019	0.002	0.39	n.a.	BMB
Total:			5.682	0.568	100.00	0.625	

56 1211086-BLK6

Sample Name:	**1211086-BLK6**	*Injection Volume:*	**25.0**
Vial Number:	**5**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 10:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**

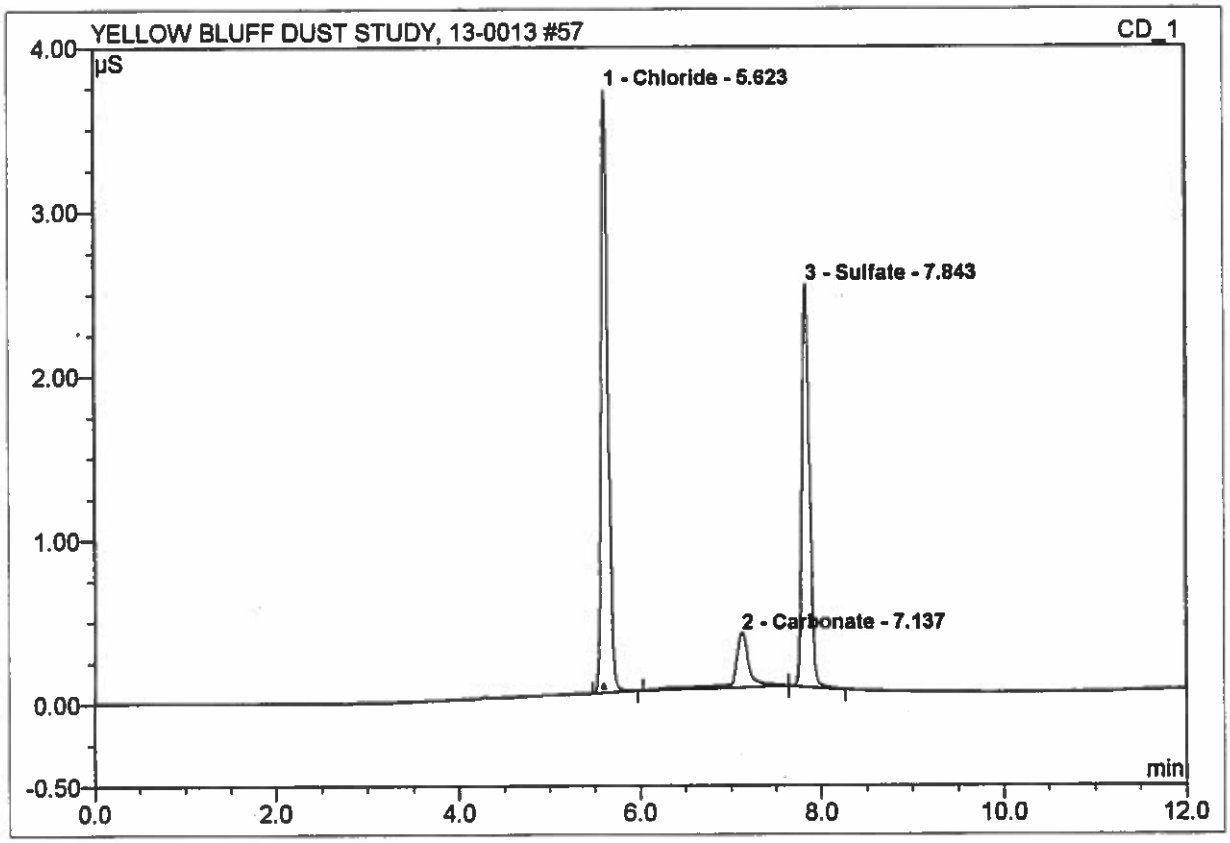


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.67	n.a.	0.010	0.003	0.57	n.a.	BMB
2	2.93	Fluoride	0.016	0.003	0.57	0.601	BMB
3	3.84	n.a.	1.562	0.155	26.82	n.a.	BMb
4	4.21	n.a.	3.334	0.314	54.10	n.a.	bMB
5	4.65	n.a.	0.315	0.032	5.54	n.a.	BMB
6	5.02	n.a.	0.010	0.001	0.17	n.a.	BMB
7	5.57	Chloride	0.011	0.001	0.18	0.003	BMB
8	5.88	n.a.	0.122	0.014	2.39	n.a.	BMB
9	6.40	Nitrite	0.005	0.001	0.19	n.a.	BMB
10	7.10	Carbonate	0.325	0.045	7.79	n.a.	BMB
11	7.78	Sulfate	0.031	0.004	0.71	0.018	BMB

12	8.17	n.a.	0.020	0.003	0.52	n.a.	BMB
13	8.56	n.a.	0.023	0.003	0.45	n.a.	BMB
Total:			5.783	0.580	100.00	0.622	

57 1211086-CCV4

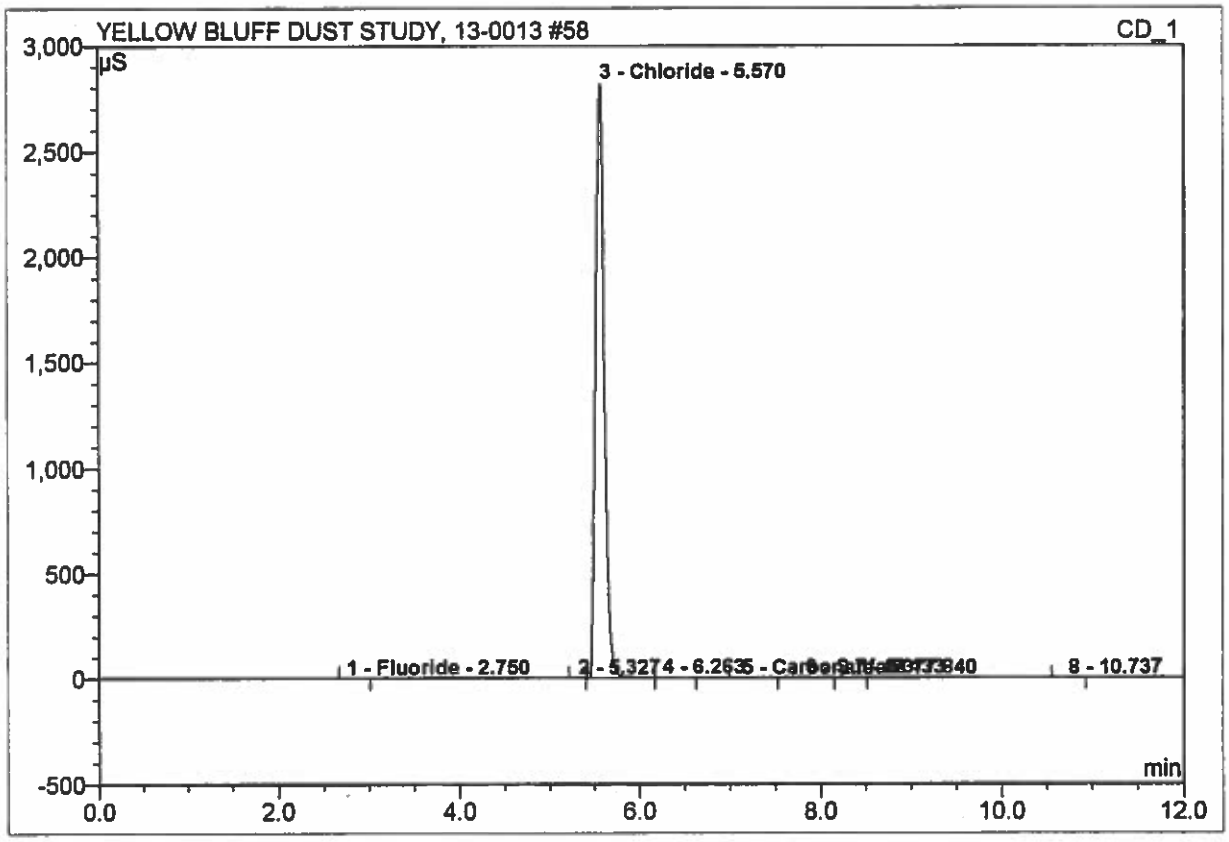
Sample Name:	**1211086-CCV4**	*Injection Volume:*	**25.0**
Vial Number:	**7**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 11:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	5.62	Chloride	3.672	0.316	51.97	0.993	BMB
2	7.14	Carbonate	0.333	0.059	9.72	n.a.	BMb
3	7.84	Sulfate	2.453	0.233	38.31	0.988	bMB
Total:			6.457	0.609	100.00	1.980	

58 1000 ppm CL Line. CK.

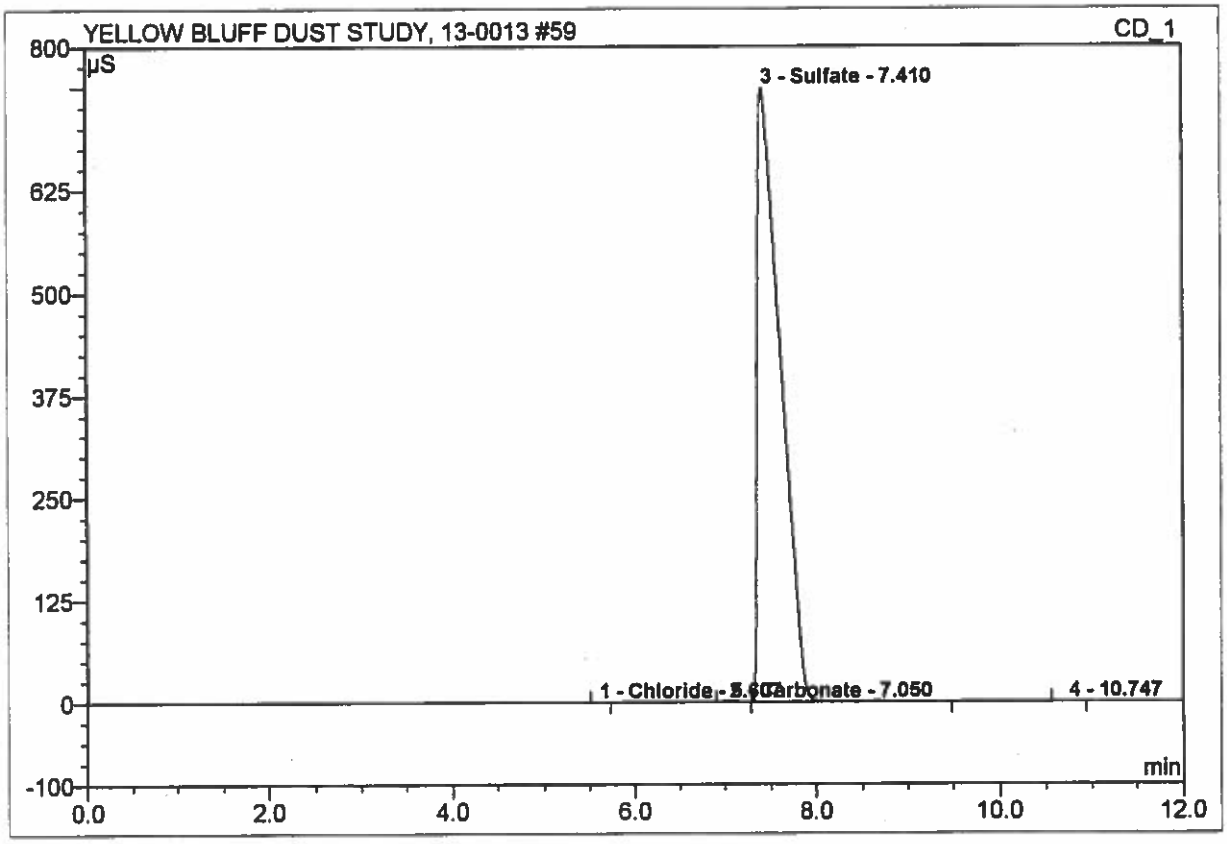
Sample Name:	**1000 ppm CL Line. CK.**	*Injection Volume:*	**25.0**
Vial Number:	**45**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 11:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.75	Fluoride	0.017	0.002	0.00	0.305	BMB
2	5.33	n.a.	0.045	0.004	0.00	n.a.	BMB
3	5.57	Chloride	2819.410	316.748	99.97	994.005	BMb
4	6.26	n.a.	0.102	0.029	0.01	n.a.	bMB
5	7.13	Carbonate	0.299	0.040	0.01	n.a.	BMB
6	7.84	Sulfate	0.147	0.014	0.00	0.061	BMB
7	8.38	n.a.	0.064	0.007	0.00	n.a.	BMB
8	10.74	n.a.	0.009	0.002	0.00	n.a.	BMB
Total:			2820.092	316.847	100.00	994.371	

59 1000 ppm SO4 Line. CK.

Sample Name:	**1000 ppm SO4 Line. CK.**	*Injection Volume:*	**25.0**
Vial Number:	**46**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 11:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	5.61	Chloride	0.059	0.005	0.00	0.015	BMB
2	7.05	Carbonate	0.348	0.045	0.02	n.a.	BMB
3	7.41	Sulfate	748.076	221.269	99.98	937.621	BMB
4	10.75	n.a.	0.006	0.001	0.00	n.a.	BMB
Total:			748.489	221.320	100.00	937.637	

60 Shutdown

Sample Name:	**Shutdown**	*Injection Volume:*	**25.0**
Vial Number:	**1**	*Channel:*	**n.a.**
Sample Type:	**blank**	*Wavelength:*	**n.a.**
Control Program:	**Shut Down**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 11:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**n.a.**	*Sample Amount:*	**1.0000**

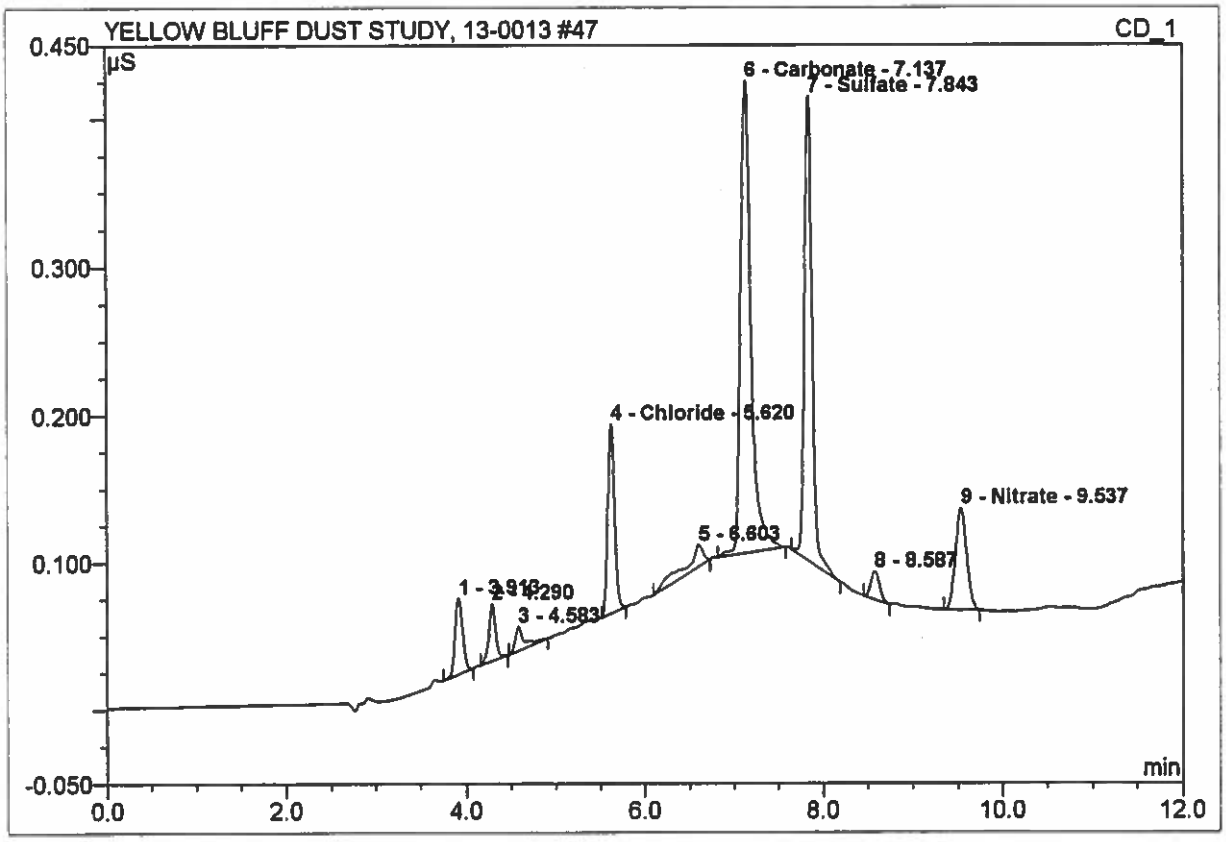
YELLOW BLUFF DUST STUDY, 13-0013 #60 Shutdown CD_1

Can't open raw data file "C:\Chromel\data\ICS-5000\My Sequences\YELLOW BLUFF DUST STUDY, 13-0013.SEQ\CD_1.CHL\56.acd".
The system cannot find the file specified.

n.a.	n.a. n.a.	n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a.
Total:			0.000	0.000	0.00	0.000	

47 E124405-23

Sample Name:	**E124405-23**	*Injection Volume:*	**25.0**
Vial Number:	**37**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**gradient anion**	*Bandwidth:*	**n.a.**
Quantif. Method:	**gradient anion**	*Dilution Factor:*	**1.0000**
Recording Time:	**11/27/2012 7:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**12.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.91	n.a.	0.052	0.005	4.58	n.a.	BMB
2	4.29	n.a.	0.039	0.003	2.91	n.a.	BMB
3	4.58	n.a.	0.016	0.002	1.61	n.a.	BMB
4	5.62	Chloride	0.128	0.011	9.69	0.034	BMB
5	6.60	n.a.	0.015	0.004	3.21	n.a.	BMB
6	7.14	Carbonate	0.319	0.045	39.85	n.a.	BMB
7	7.84	Sulfate	0.314	0.031	27.40	0.131	BMB
8	8.59	n.a.	0.019	0.002	1.88	n.a.	BMB
9	9.54	Nitrate	0.069	0.010	8.88	n.a.	BMB
Total:			0.972	0.113	100.00	0.166	

Book/Page 3/48

EMPTY BOTTLE PREPARATION LOG

Project Name/Number: 13-0013 Yellow Bluff Dust Study E124405

Date: 11/07/12

Analyst: T. White

Lot No. HNO_3/ HCl: NA

1211086-BLK2

Sample No.	Bottle Type*	DI wtr added (mL)	Preservative added (amount/type)
PREP. BLK2	200ml Flask	200 mls	
Prep ~~Filter - BLK~~ E124405-03	filter	200mls	NA
E124405-04	↓	↓	↓
E124405-05			
E124405-07			
E124405-08			
E124405-09			
E124405-10			
E124405-11			
E124405-12			
E124405-13			
E124405-14	↓	↓	↓

*Bottle type:
1LP- 1 Liter Plastic
8ozG- 8 ounce glass
1GalAm- 1 gallon glass amber bottle

Notes: These filters were sonicated in 50 mls DI H_2O - poured up to a final volume of 200 mls - aliquoted into 50 ml digi tubes for metals, anions, and ammonia. See directions from Mike Waske in workorder notes.

Form Ver 03/26/2003

T. White
11/7/12

Book/Page 3/49

EMPTY BOTTLE PREPARATION LOG

Project Name/Number: 13-0013 Yellow Bluff Dust Study E124405

Date: 11/07/12

Analyst: T. White

Lot No. HNO_3/ HCl: NA

Sample No.	Bottle Type*	DI wtr added (mL)	Preservative added (amount/type)
E124405- 15	filter	200 mls	NA
E124405- 16			
E124405- 17			
E124405- 18			
E124405- 20			
E124405- 21			
E124405- 22			
E124405- 23			
E124405- 24			
E124405- 25			
E124405 26			
E124405 27			

*Bottle type: 1LP- 1 Liter Plastic
8ozG- 8 ounce glass
1GalAm- 1 gallon glass amber bottle

E124405-28

Notes:

Form Ver 03/26/2003

Book/Page 3 / 50

EMPTY BOTTLE PREPARATION LOG

Project Name/Number: 13-0013 Yellow Bluff Dust Study E124405

Date: 11/07/12

Analyst: T. White

Lot No. HNO_3/ HCl: NA

Sample No.	Bottle Type*	DI wtr added (mL)	Preservative added (amount/type)
E124405-01	teflon canister	200 mls	NA
E124405-02	↓	↓	↓
E124405-06	↓	↓	↓
E124405-19	↓	↓	↓
Prepped - BLK	200ml Flask	200 mls	NA
↓ 1211086-BLK3 BLK2 PB 11/21/12			

*Bottle type: 1LP- 1 Liter Plastic
8ozG- 8 ounce glass
1GalAm- 1 gallon glass amber bottle

Notes: These canisters were rinsed + sonicated with 200 mls DI H_2O - then aliquoted into 50 ml digitubes for metals, anions, and ammonia. See directions from Mike Wasko in Work ordernotes. T. White 11/7/12

Form Ver 03/26/2003

Analytical Standard Record

US-EPA, Region 4, SESD

2112601

Description:	Static Spike for 13-0013 Yellow Bluff Cl a	Expires:	12/10/12
Standard Type:	Analyte Spike	Prepared:	11/26/12
Solvent:	H20	Prepared By:	Betts, Pam
Final Volume (mls):	1	Department:	ICS Class
Vials:	1	Last Edit:	11/26/12 09:17 by PB1

Prepared from PCS-2070913-Cl and 2070918-SO4 (Element #2081606)

Analyte	CAS Number	Concentration	Units
Chloride	16887-00-6	1	mg/L
Sulfate as SO4	14808-79-8	1	mg/L

Reviewed By

Date

Traceability of Ion Chromatograph Standards

Book 5 Page 10
Analyst: PBETTS

To prepare 10 ppm Intermediate Standards (IS)- A and/or B
Combine 1 mL of each Primary Standard (1000 ppm) into a 100 mL volumetric flask. Bring to 100 mL volume using DI water.

Intermediate Standard (IS) - A

1) PS - ____ - F
2) PS - ____ - NO_3
3) PS - ____ - NO_2
4) PS - ____ - PO_4

NA

10 ppm Intermediate Standard ID:
(for calibration standards & CCV)
IS - ____ - A
NA

Prep. ____ Exp. ____

Intermediate Standard (IS) - B

5) PS - 2070905 - Cl
6) PS - 2070907 - SO_4
7) PS - ____ - Br *

NA

10 ppm Intermediate Standard ID:
(for calibration standards & CCV)
IS - 112612 - B

PS-2070905-Cl AND PS-2070907-SO4 (1000mg/L) USED AS LINEARITY CK. STD's.

* Br NOT ADDED TO STD MIX. ELEMENT ID: 2081611

Prep. 11/26/12 Exp. 12/10/12

Using Intermediate Standards A and/or B, prepare the combined Working Standards (WS) as follows:

Amt. of IS used A / B	Final vol.	Std.conc.(ppm) A / B	Working Standard ID:
0.5 ml / 1.0 ml	100 ml	0.05 / 0.10	WS - 112612 - C
1.0 ml / 5.0 ml	100 ml	0.10 / 0.50	WS - 112612 - D
5.0 ml / 10.0 ml	100 ml	0.50 / 1.00	WS - 112612 - E
10.0 ml / 20.0 ml	100 ml	1.00 / 2.00	WS - 112612 - F

Prep. 11/26/12 Exp. 12/10/12

To prepare 50 ppm Intermediate Check Standards (ICS)- A and/or B
Combine 5 mL of each 1000 ppm Primary Check Standard (PCS) into a 100 mL volumetric flask. Bring to 100 mL volume using DI water.

Inter. Ck. Std. (ICS) - A

1) PCS - ____ - F
2) PCS - ____ - NO_3
3) PCS - ____ - NO_2
4) PCS - ____ - PO_4

NA

50 ppm Inter. Ck. Std. ID:
(for ICV, LCS-O, LCS-D & Matrix Spike)
50 ppm ICS - ____ - A
NA

ICV, LCS-O & LCS-D
1 mL of 50ppm ICS to 100 mL (= 0.5 ppm)

Matrix Spike & Matrix Spike-D
0.5 mL of 50ppm ICS to 50 mL (= 0.5 ppm)

Prep. 11/26/12 Exp. 12/10/12

Inter. Ck. Std. (ICS) - B

5) PCS - 2070913 - Cl
6) PCS - 2070918 - SO_4
7) PCS - ____ - Br *

50 ppm Inter. Ck. Std. ID:
(for ICV, LCS-O, LCS-D & Matrix Spike)
50 ppm ICS - ~~112612~~ 11/26/12 PB 112612 - B

ICV, LCS-O & LCS-D
2 mL of 50ppm ICS to 100 mL (= 1.0 ppm)

Matrix Spike & Matrix Spike-D
1.0 mL of 50ppm ICS to 50 mL (= 1.0 ppm)

* Br NOT USED IN SPK MIX.

Prep. 11/26/12 Exp. 12/10/12

Form Ver 10/04/2005