Matrix: Water | Client: ARCADIS | Collector: Client
Sampled: 10/10/2012 12:27 | Site: | Notes:
Sample #: 311877-003 | Client Sample #: 3850N

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Dibromomethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/17/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/17/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/17/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/17/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/17/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/17/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/17/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/17/12	Liaoyuanz	
Tetrachloroethene	130	10	1.5	5	ug/L	10/17/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Trichloroethene	94	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*95*	*70-145*	
4-Bromofluorobenzene (SUR)	*100*	*70-145*	
Dibromodifluoromethane (SUR)	*92*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Method: EPA 8260M | Prep Method: EPA 5030B | QCBatchID: QC1130672

1,2,3-Trichloropropane	0.085	5	0.025	0.025	ug/L	10/18/12	akk

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*98*	*50-150*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/10/2012 07:30	Site:	Notes:
Sample #: 311877-004	Client Sample #: TB101012	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 NELAC	Prep Method: EPA 5030B						QCBatchID: QC1130649	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/17/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/17/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/17/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/17/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/17/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/17/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/17/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/17/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/17/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/17/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/17/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/17/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/17/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/10/2012 07:30	Site:	Notes:
Sample #: 311877-004	Client Sample #: TB101012	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/17/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/17/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/17/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/17/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/17/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/17/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/17/12	Liaoyuanz	
Tetrachloroethene	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*98*	*70-145*	
4-Bromofluorobenzene (SUR)	*97*	*70-145*	
Dibromodifluoromethane (SUR)	*96*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/10/2012 16:13	Site:	Notes:
Sample #: 311877-005	Client Sample #: B-6-CW01	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 NELAC	Prep Method: EPA 5030B						QCBatchID: QC1130649	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/17/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/17/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/17/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/17/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/17/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/17/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/17/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/17/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/17/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/17/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/17/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/17/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/17/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS	**Collector:** Client
Sampled: 10/10/2012 16:13	**Site:**	**Notes:**
Sample #: 311877-005	**Client Sample #:** B-6-CW01	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/17/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/17/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/17/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/17/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/17/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/17/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/17/12	Liaoyuanz	
Tetrachloroethene	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*97*	*70-145*	
4-Bromofluorobenzene (SUR)	*98*	*70-145*	
Dibromodifluoromethane (SUR)	*96*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #311877

QCBatchID: QC1130591	Analyst: metha	Method: EPA 6010B
Matrix: Water	Analyzed: 10/17/2012	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130591MB1					
Chromium	ND	mg/L	0.002	0.01	
Thallium	ND	mg/L	0.003	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130591LCS1											
Chromium	2		2.24		mg/L	112			80-120		
Thallium	2		2.20		mg/L	110			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1130591MS1, QC1130591MSD1												Source: 311877-003
Chromium	0.015	1	1	1.09	1.05	mg/L	108	104	3.7	75-125	20	
Thallium	ND	1	1	0.991	0.976	mg/L	99	98	1.5	75-125	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #311877

QCBatchID: QC1130649 | Analyst: lucy | Method: EPA 8260B
Matrix: Water | Analyzed: 10/18/2012 | Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130649MB1					
1,1,1,2-Tetrachloroethane	ND	ug/L	0.122	0.5	
1,1,1-Trichloroethane	ND	ug/L	0.063	0.5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.063	0.5	
1,1,2-Trichloroethane	ND	ug/L	0.045	0.5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.119	0.5	
1,1-Dichloroethane	ND	ug/L	0.078	0.5	
1,1-Dichloroethene	ND	ug/L	0.13	0.5	
1,1-Dichloropropene	ND	ug/L	0.06	0.5	
1,2,3-Trichlorobenzene	ND	ug/L	0.06	0.5	
1,2,3-Trichloropropane	ND	ug/L	0.073	0.5	
1,2,4-Trichlorobenzene	ND	ug/L	0.068	0.5	
1,2,4-Trimethylbenzene	ND	ug/L	0.078	0.5	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.08	0.5	
1,2-Dibromoethane	ND	ug/L	0.043	0.5	
1,2-Dichlorobenzene	ND	ug/L	0.051	0.5	
1,2-Dichloroethane	ND	ug/L	0.066	0.5	
1,2-Dichloropropane	ND	ug/L	0.06	0.5	
1,3,5-Trimethylbenzene	ND	ug/L	0.097	0.5	
1,3-Dichlorobenzene	ND	ug/L	0.052	0.5	
1,3-Dichloropropane	ND	ug/L	0.68	0.5	
1,4-Dichlorobenzene	ND	ug/L	0.12	0.5	
2,2-Dichloropropane	ND	ug/L	0.11	0.5	
2-Butanone (MEK)	ND	ug/L	0.3	5	
2-Chloroethyl Vinyl Ether	ND	ug/L	0.23	0.5	
2-Chlorotoluene	ND	ug/L	0.079	0.5	
4-Chlorotoluene	ND	ug/L	0.08	0.5	
4-Isopropyltoluene	ND	ug/L	0.091	0.5	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	0.16	5	
Acetone	ND	ug/L	0.2	10	
Allyl Chloride	ND	ug/L	0.08	0.5	
Benzene	ND	ug/L	0.071	0.5	
Bromobenzene	ND	ug/L	0.073	1	
Bromochloromethane	ND	ug/L	0.06	0.5	
Bromodichloromethane	ND	ug/L	0.06	0.5	
Bromoform	ND	ug/L	0.053	0.5	
Bromomethane	ND	ug/L	0.13	1	
Carbon Tetrachloride	ND	ug/L	0.045	0.5	
Chlorobenzene	ND	ug/L	0.075	0.5	
Chlorodibromomethane	ND	ug/L	0.045	0.5	
Chloroethane	ND	ug/L	0.4	0.5	
Chloroform	ND	ug/L	0.044	0.5	
Chloromethane	ND	ug/L	0.055	0.5	
cis-1,2-Dichloroethene	ND	ug/L	0.055	0.5	
cis-1,3-dichloropropene	ND	ug/L	0.061	0.5	
cis-1,4-dichloro-2-butene	ND	ug/L	0.075	5	
Dibromomethane	ND	ug/L	0.06	0.5	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #311877

QCBatchID: QC1130649 | Analyst: lucy | Method: EPA 8260B
Matrix: Water | Analyzed: 10/18/2012 | Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130649MB1					
Dichlorodifluoromethane	ND	ug/L	0.062	0.5	
Di-isopropyl ether (DIPE)	ND	ug/L	0.17	0.5	
Ethylbenzene	ND	ug/L	0.091	0.5	
Ethyl-tertbutylether (ETBE)	ND	ug/L	0.25	0.5	
Hexachlorobutadiene	ND	ug/L	0.073	1	
Isopropylbenzene	ND	ug/L	0.089	0.5	
m and p-Xylene	ND	ug/L	0.17	0.5	
Methylene chloride	ND	ug/L	0.15	0.5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L	0.068	0.5	
Naphthalene	ND	ug/L	0.061	0.5	
N-butylbenzene	ND	ug/L	0.094	0.5	
N-propylbenzene	ND	ug/L	0.09	0.5	
o-Xylene	ND	ug/L	0.075	0.5	
Sec-butylbenzene	ND	ug/L	0.077	0.5	
Styrene	ND	ug/L	0.088	0.5	
t-Butyl alcohol (TBA)	ND	ug/L	5	5	
Tert-amylmethylether (TAME)	ND	ug/L	0.13	0.5	
Tert-butylbenzene	ND	ug/L	0.092	0.5	
Tetrachloroethene	ND	ug/L	0.15	0.5	
Toluene	ND	ug/L	0.078	0.5	
trans-1,2-dichloroethene	ND	ug/L	0.17	0.5	
trans-1,3-dichloropropene	ND	ug/L	0.056	0.5	
trans-1,4-dichloro-2-butene	ND	ug/L	0.075	5	
Trichloroethene	ND	ug/L	0.078	0.5	
Trichlorofluoromethane	ND	ug/L	0.06	0.5	
Vinyl Chloride	ND	ug/L	0.08	0.5	
Xylenes (Total)	ND	ug/L	0.25	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130649LCS1											
1,1-Dichloroethene	25		24		ug/L	96			59-172		
Benzene	25		24		ug/L	96			62-137		
Chlorobenzene	25		25		ug/L	100			60-133		
Methyl-t-butyl Ether (MTBE)	25		22		ug/L	88			62-137		
Toluene	25		25		ug/L	100			59-139		
Trichloroethene	25		24		ug/L	96			66-142		

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

CONFIDENTIAL LMC-PET-00000191

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #311877

QCBatchID: QC1130649	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 10/18/2012	Instrument: VOA-MS (group)

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130649MS1, QC1130649MSD1												**Source: 311995-007**
1,1-Dichloroethene	ND	25	25	23	23	ug/L	92	92	0.0	59-172	22	
Benzene	ND	25	25	22	22	ug/L	88	88	0.0	62-137	24	
Chlorobenzene	ND	25	25	25	23	ug/L	100	92	8.3	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	25	25	22	22	ug/L	88	88	0.0	62-137	21	
Toluene	ND	25	25	24	23	ug/L	96	92	4.3	59-139	21	
Trichloroethene	ND	25	25	21	21	ug/L	84	84	0.0	66-142	21	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #311877

QCBatchID: QC1130672	Analyst: akk	Method: EPA 8260M
Matrix: Water	Analyzed: 10/19/2012	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130672MB1					
1,2,3-Trichloropropane	ND	ug/L	0.005	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130672LCS1, QC1130672LCSD1											
1,2,3-Trichloropropane	0.02	0.02	0.018	0.014	ug/L	90	70	25	50-150	30	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

CONFIDENTIAL LMC-PET-00000193

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #311877

QCBatchID: QC1130675	Analyst: rybechay	Method: EPA 218.6
Matrix: Water	Analyzed: 10/19/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130675MB1					
Hexavalent Chromium	ND	ug/L	0.1	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130675LCS1											
Hexavalent Chromium	5		5.64		ug/L	113			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130675MS1, QC1130675MSD1												Source: 311995-002
Hexavalent Chromium	ND	2	2	2.13	2.08	ug/L	107	104	2.4	75-125	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

CONFIDENTIAL LMC-PET-00000194

Notes and Definitions

B	Analyte was present in an associated method blank. Associated sample data was reported with qualifier.
C	Laboratory Contamination.
D	The sample duplicate RPD was not within control limits, the sample data was reported without further clarification.
DF	Dilution Factor
DW	Sample result is calculated on a dry weigh basis
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
MDL	Method Detection Limit
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
ND	Analyte was not detected or was less than the detection limit.
P	Sample was received without proper preservation according to EPA guidelines.
RDL	Reporting Detection Limit
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
T	Sample was extracted/analyzed past the holding time.

ASSOCIATED LABORATORIES

NARRATIVE

Date: November 1, 2012

Narrative for Lab Request LR: 311877

Client Project Identification:

Client Name: ARCADIS
Project: BOU Burbank

This narrative includes all samples as shown on the attached Lab Request final report.

Data Validation:

Holding Times
Samples were received on October 10th, 2012 intact and ice was present in the cooler. All EPA recommended holding times were met for this project.

Calibration
Initial calibration criteria were met. Initial and Continuing Calibration Check samples were run at the required frequency. All results were within required limits.

Quality Control Samples
All QC results were within control limits.

Other Anomalies or Comments
Estimated concentrations ("J" Flags) were reported on all samples and method blanks.

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

Chain of Custody Record

Lab Job No. 311877
Page 1 of 1

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY	ARCADIS	PROJECT NAME:	BOU Burbank
SEND REPORT TO:	Erik Geiser	NUMBER:	BOD 38189.0000.00001
EMAIL:		ADDRESS:	
ADDRESS:	on file		Burbank, CA
		P.O. #:	
PHONE:		SAMPLED BY:	H. Tauscher / H. Armstrong

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: ____ 48 Hours: ____ 24 Hours: ____

	Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	VOCs 8260B	1,2,3 TCP 525.2	Hexavalent Chromium (SM)	Total Chromium	Test Instructions & Comments
1	3850R	10/10/12	1249	W	3 VOAs	HCL	X				
2	B-1-CW27	10/10/12	1021	W	6 VOAs	HCL	X				
3	3850N	10/10/12	1227	W	8	HCL	X	X	X	X	
4	TB101012	10/10/12	0730	W	2 VOAs	HCL	X				
5	B-6-CW01	10/10/12	1613	W	3 VOAs	HCL	X				
6											
7											
8											
9											
10											
11											
12											
13											
14											
15	Arcadis										

VOCs 8260B also tested for freon & MTBE

Total No. of Samples: 22 Method of Shipment: Courier

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished by 1.	Received By: 1.	Relinquished by 2.	Received By: 2.	Relinquished by 3.	Received By: 3.
Heather Tauscher	LAVORI JOY	LAVORI JOY			
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Heather Tauscher	Printed Name: LAVORI JOY	Printed Name: LAVORI JOY	Printed Name: Chris	Printed Name:	Printed Name:
Date: 10/10/12 Time: 1620	Date: 10-10 Time: 420	Date: 10-10-12 Time: 550	Date: 10/10/12 Time: 1755	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

LMC-PET-00000197
CONFIDENTIAL

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 *FAX 714-538-1209*

SAMPLE ACCEPTANCE CHECKLIST

Section 1
Client: Arcadis
Date Received: 10/10/12
Sample(s) received in cooler: (Yes) No (Skip Section 2)
Shipping Information: _____
Project: _____
Sampler's Name: (Yes) No

Section 2
Was the cooler packed with: ✓ Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other _____
Cooler or box temperature: 0°C

(Acceptance range is 0 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Is it properly completed? (IDs, sampling date and time, signature, test)	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?		✓	
Were the containers labeled with correct preservatives?	✓		
Was total residual chlorine measured (Fish Bioassay samples only)? *			✓

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
Explanations/Comments

Section 5
Was Project Manager notified of discrepancies: Y / N N/A

Completed By: [illegible] Date: 10/10/12

Created on 7/6/2012 1:29:00 PM

ALAB : 00020

EPA 218.6

Hexavalent Chromium

DATA PACKAGE
218.6-CR VI

ALAB : 00022

Sequence: 2012_1016
Last Update Operator: rybechay

UV_VIS_1	Name	Type	Level	Position	Volume [µl]	Instrument Method	Processing Method	Status	Inject Tim
	MB	Unknown		3	5000	AS7	AS7	Finished	10/16/2012 12:06:18 PM -07
	MB	Unknown		4	5000	AS7	AS7	Finished	10/16/2012 12:18:43 PM -07
	MB	Unknown		5	5000	AS7	AS7	Finished	10/16/2012 12:31:39 PM -07
	STD1 1.0ppb	Calibration Stan	01	6	5000	AS7	AS7	Finished	10/16/2012 12:44:35 PM -07
	STD2 2.5ppb	Calibration Stan	02	7	5000	AS7	AS7	Finished	10/16/2012 12:57:32 PM -07
	STD3 5.0ppb	Calibration Stan	03	8	5000	AS7	AS7	Finished	10/16/2012 1:10:29 PM -07
	STD4 7.5ppb	Calibration Stan	04	9	5000	AS7	AS7	Finished	10/16/2012 1:23:25 PM -07
	STD5 10.0ppb	Calibration Stan	05	10	5000	AS7	AS7	Finished	10/16/2012 1:36:21 PM -07
	icv 2.0ppb	Unknown		11	5000	AS7	AS7	Finished	10/16/2012 1:57:02 PM -07
	lcs 5.0ppb	Unknown		12	5000	AS7	AS7	Finished	10/16/2012 2:09:30 PM -07
	311995-002/4	Unknown		15	5000	AS7	AS7	Finished	10/16/2012 3:04:40 PM -07
	311995-007/2	Unknown		16	5000	AS7	AS7	Finished	10/16/2012 3:17:36 PM -07
	311995-009/1	Unknown		17	5000	AS7	AS7	Finished	10/16/2012 3:30:34 PM -07
	311995-010/5	Unknown		18	5000	AS7	AS7	Finished	10/16/2012 3:43:30 PM -07
	311995-011/2	Unknown		19	5000	AS7	AS7	Finished	10/16/2012 3:56:26 PM -07
	311995-016/3	Unknown		20	5000	AS7	AS7	Finished	10/16/2012 4:09:23 PM -07
	311877-003/1	Unknown		24	5000	AS7	AS7	Finished	10/16/2012 4:36:21 PM -07
	311995-009/1	Unknown		25	5000	AS7	AS7	Finished	10/16/2012 4:49:18 PM -07
	311995-002ms	Unknown		26	5000	AS7	AS7	Finished	10/16/2012 5:02:14 PM -07
	311995-002msd	Unknown		27	5000	AS7	AS7	Finished	10/16/2012 5:15:10 PM -07
	ccv 5ppb	Unknown		28	5000	AS7	AS7	Finished	10/16/2012 5:28:07 PM -07
	312094-003/2	Unknown		7	5000	AS7	AS7	Finished	10/17/2012 11:53:46 AM -07

ALAB : 000023
LMC-PET-00000201
CONFIDENTIAL

Sequence: 2012_1016
Last Update Operator: rybechay

Lock Status	Weight	Dilution	IntStd	Replicate ID	Comment	Spike Group
	1.0000	1.0000	1.0000		Arcadis	
	1.0000	1.0000	1.0000			
	1.0000	1.0000	1.0000			
	1.0000	1.0000	1.0000			cs101612-6cr6
	1.0000	1.0000	1.0000			cs101612-5cr6
	1.0000	1.0000	1.0000			cs101612-4cr6
	1.0000	1.0000	1.0000			cs101612-3cr6
	1.0000	1.0000	1.0000			cs101612-2cr6
	1.0000	1.0000	1.0000			icv101612cr6+
	1.0000	1.0000	1.0000			lcs101612cr6+
	1.0000	1.0000	1.0000			
	1.0000	1.0000	1.0000			
	1.0000	1.0000	1.0000			rerun
	1.0000	1.0000	1.0000			1:10
	1.0000	1.0000	1.0000			1:10
	1.0000	1.0000	1.0000			
	1.0000	1.0000	1.0000			1:10
	1.0000	1.0000	1.0000			1:10
	1.0000	1.0000	1.0000			2ppb
	1.0000	1.0000	1.0000			2ppb
	1.0000	1.0000	1.0000			cs101612-4cr6
	1.0000	1.0000	1.0000			

ALAB : 00021
LMC-PET-00000202
CONFIDENTIAL

Sequence: 2012_1016
Injection #1: MB

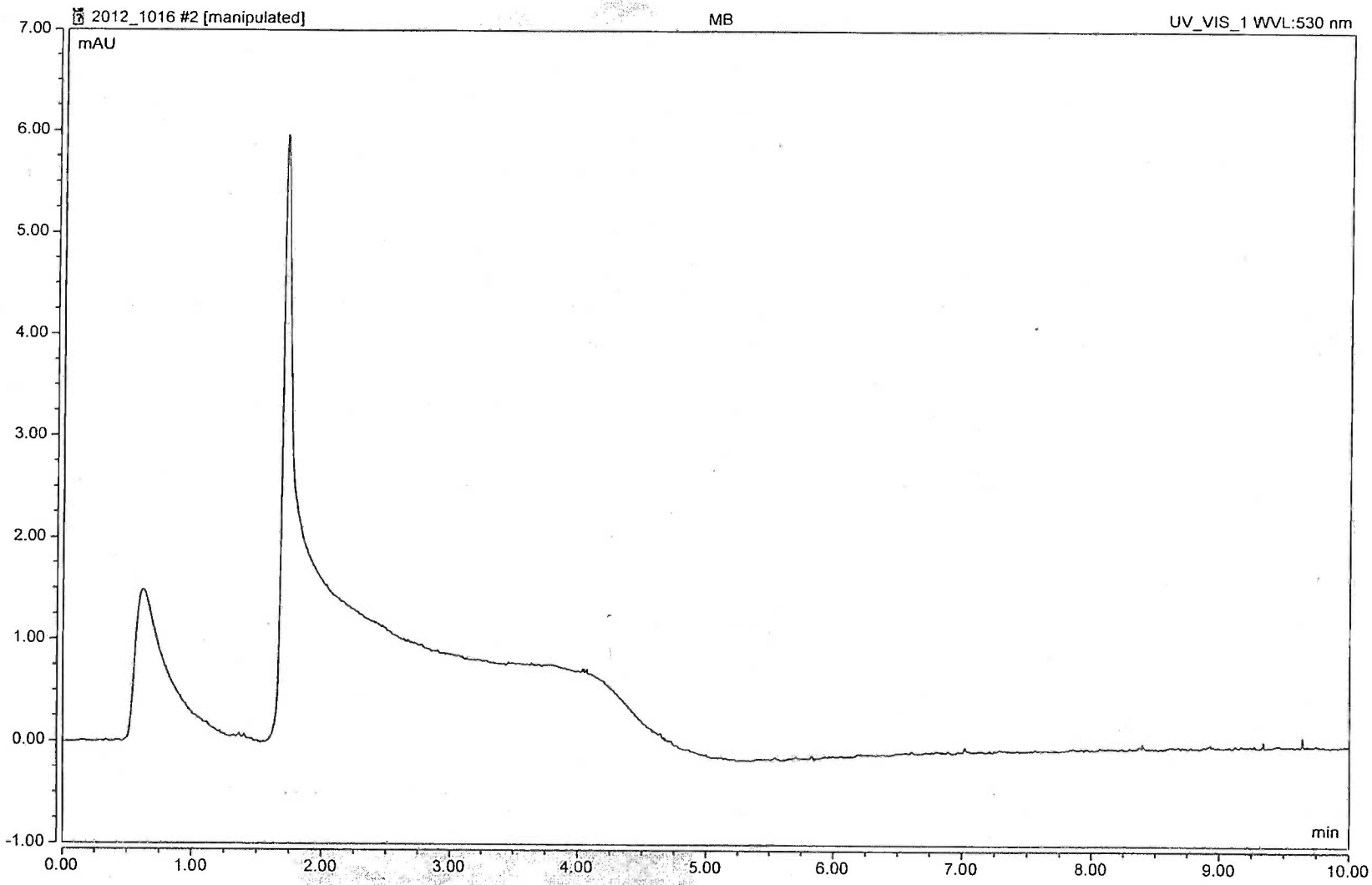
Calibration

Peak No.	Peak Name	Ret.Time min	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
n.a.	Cr IV	n.a.	Lin	Area	4	1.6298	0.99949	0.0000	0.3321	0.0000
Maximum						1.6298	0.99949			
Minimum						1.6298	0.99949			

ALAB : 86625
LMC-PET-00000203
CONFIDENTIAL

Sequence: 2012_1016
Injection #2: MB

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
24/10/12 08:55

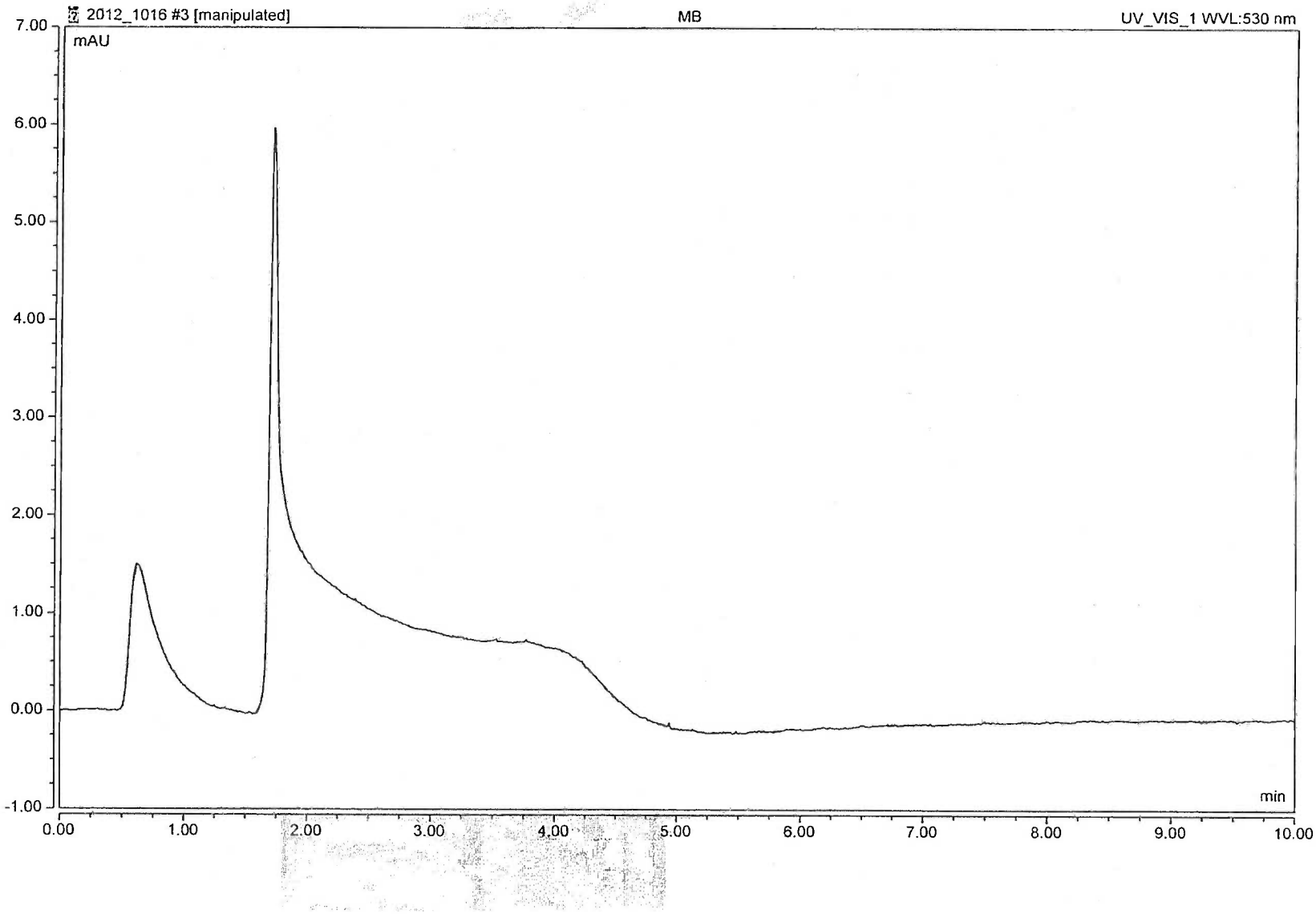
ALAB : 000026
LMC-PET-00000204
CONFIDENTIAL

Peak No.	Peak Name	Ret.Time min	Amount n.a.	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					

ALAB : 66627
LMC-PET-00000205
CONFIDENTIAL

Sequence: 2012_1016
Injection #3: MB

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
24/10/12 08:55

LMC-PET-00000206
CONFIDENTIAL

Peak No.	Peak Name	Ret.Time min	Amount n.a.	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					

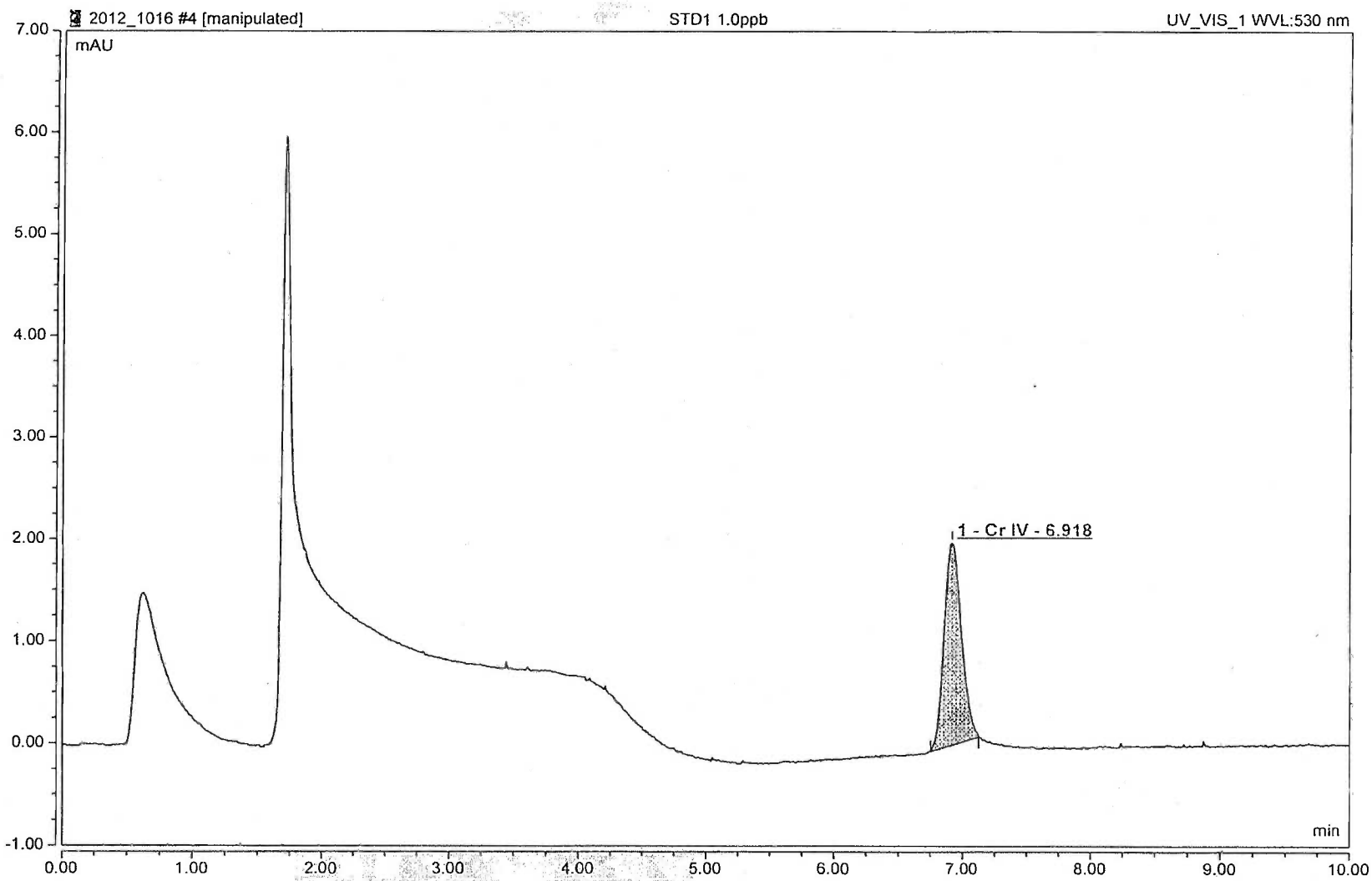
ALAB : 00028

LMC-PET-00000207

CONFIDENTIAL

Sequence: 2012_1016
Injection #4: STD1 1.0ppb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
24/10/12 08:58

LMC-PET-00000208
CONFIDENTIAL

Sequence: 2012_1016
Injection #4: STD1 1.0ppb

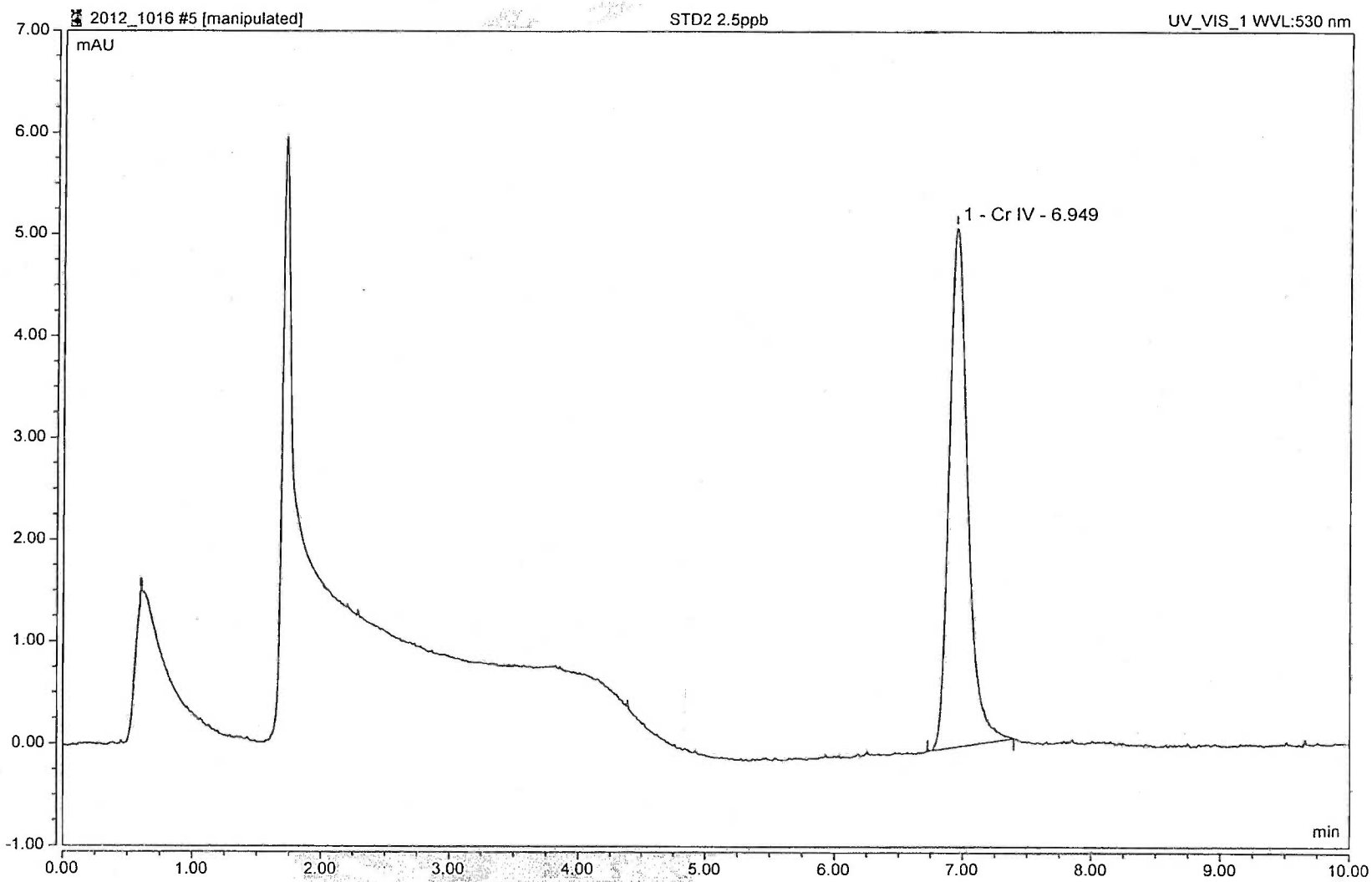
Peak Results

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.918	0.9260	100.00	0.3075	1.98	BMB	0.145	1.17	n.a.	12621
Maximum			0.9260	100.00	0.3075	1.98		0.145	1.17	0.00	12621
Minimum			0.9260	100.00	0.3075	1.98		0.145	1.17	0.00	12621
Sum			0.9260	100.00	0.3075	1.98					

ALAB : 99923
LMC-PET-00000209
CONFIDENTIAL

Sequence: 2012_1016
Injection #5: STD2 2.5ppb

Chromatogram



Chromeleon 7
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
24/10/12 08:58

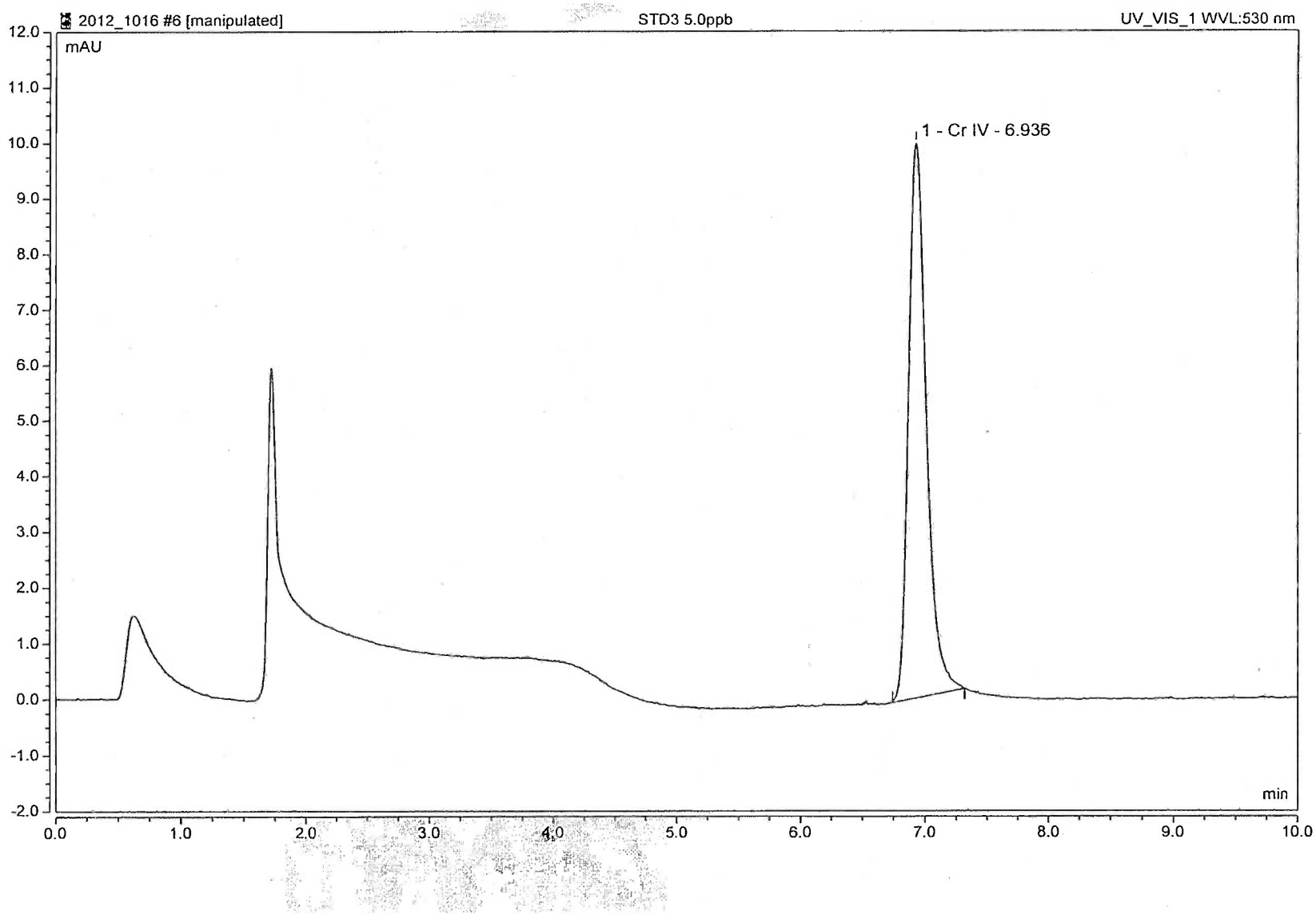
ALAB : 000039
LMC-PET-00000210
CONFIDENTIAL

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.949	2.5754	100.00	0.8553	5.10	BMB*	0.149	1.37	n.a.	12029
Maximum			2.5754	100.00	0.8553	5.10		0.149	1.37	0.00	12029
Minimum			2.5754	100.00	0.8553	5.10		0.149	1.37	0.00	12029
Sum			2.5754	100.00	0.8553	5.10					

ALAB : 00031
LMC-PET-000000211
CONFIDENTIAL

Sequence: 2012_1016
Injection #6: STD3 5.0ppb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
24/10/12 08:58

LMC-PET-00000212

CONFIDENTIAL

Sequence: 2012_1016
Injection #6: STD3 5.0ppb

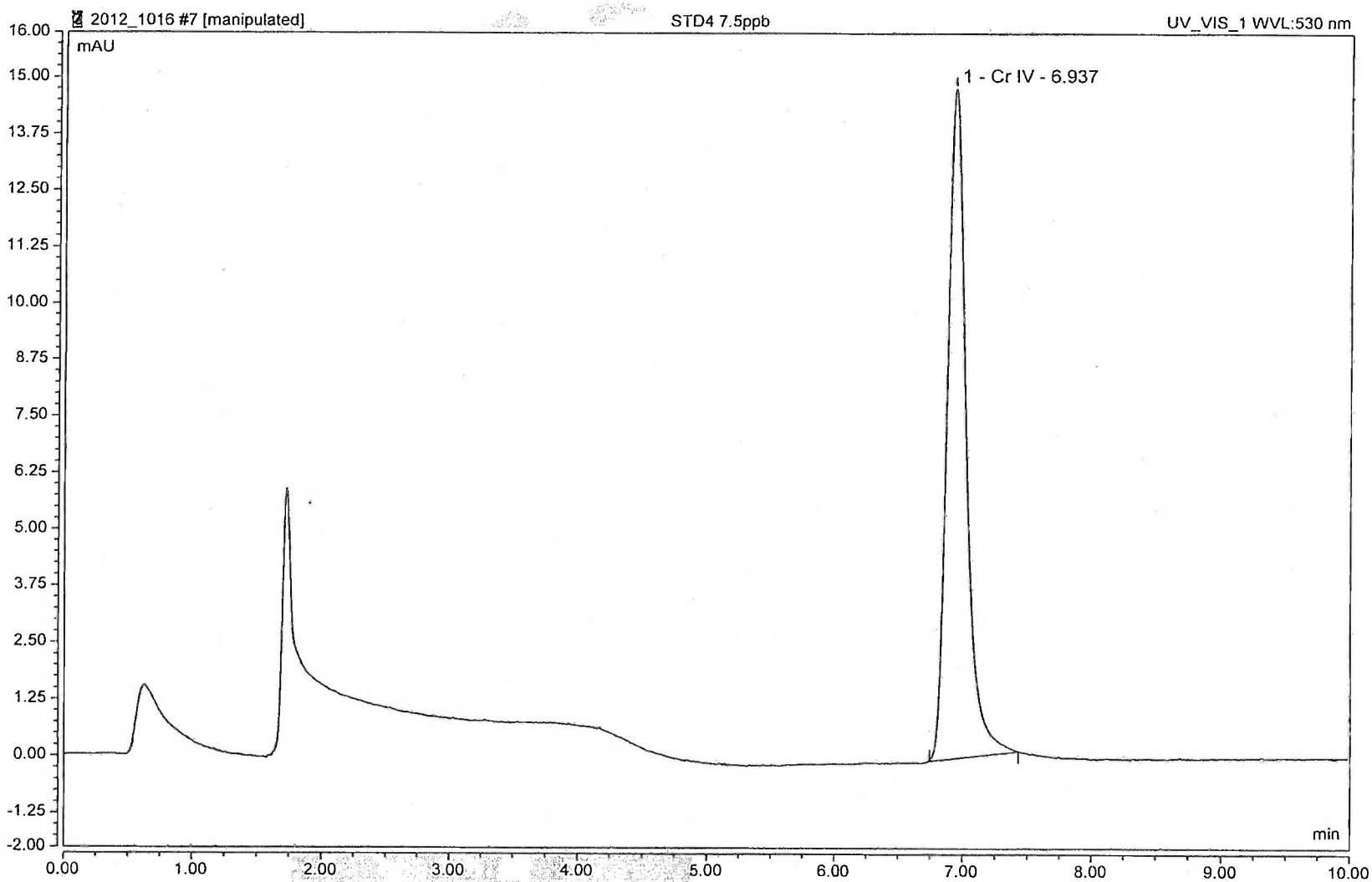
Peak Results

Peak No	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.936	4.962	100.00	1.6479	9.97	BMB	0.148	1.33	n.a.	12087
Maximum			4.9620	100.00	1.6479	9.97		0.148	1.33	0.00	12087
Minimum			4.9620	100.00	1.6479	9.97		0.148	1.33	0.00	12087
Sum			4.9620	100.00	1.6479	9.97					

ALAB : 000032
LMC-PET-00000213
CONFIDENTIAL

Sequence: 2012_1016
Injection #7: STD4 7.5ppb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
24/10/12 08:59

LMC-PET-00000214

CONFIDENTIAL

Sequence: 2012_1016
Injection #7: STD4 7.5ppb

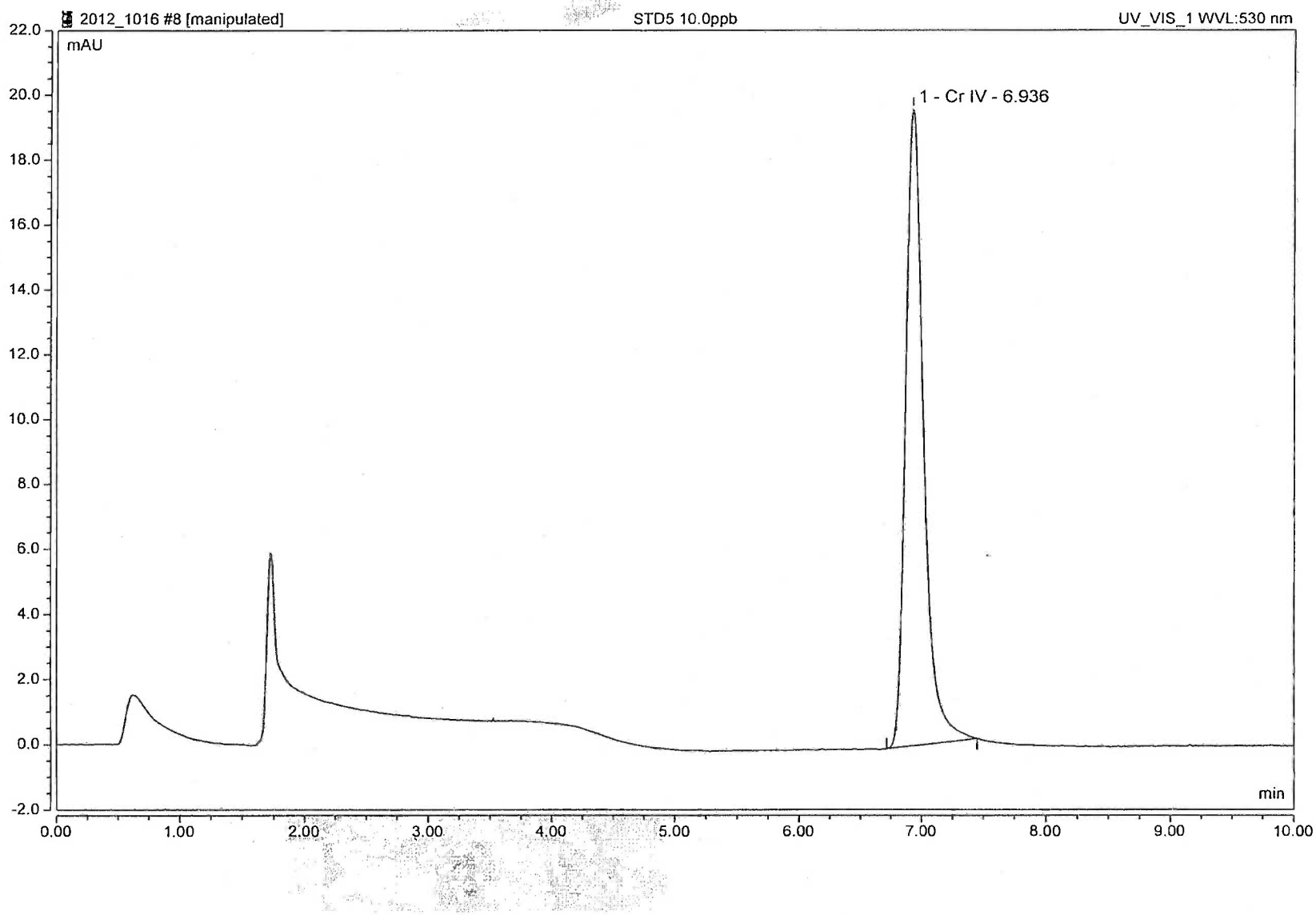
Peak Results

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	[illegible]	7.5101	100.00	2.494[illegible]	[illegible].7	BMB	0.149	1.36	n.a.	11963
Maximum			7.5101	100.00	2.4941	14.79		0.149	1.36	0.00	11963
Minimum			7.5101	100.00	2.4941	14.79		0.149	1.36	0.00	11963
Sum			7.5101	100.00	2.4941	14.79					

ALAB : 00088
LMC-PET-00000215
CONFIDENTIAL

Sequence: 2012_1016
Injection #8: STD5 10.0ppb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
24/10/12 08:59

ALAB : 000031
LMC-PET-00000216
CONFIDENTIAL

Sequence: 2012_1016
Injection #8: STD5 10.0ppb

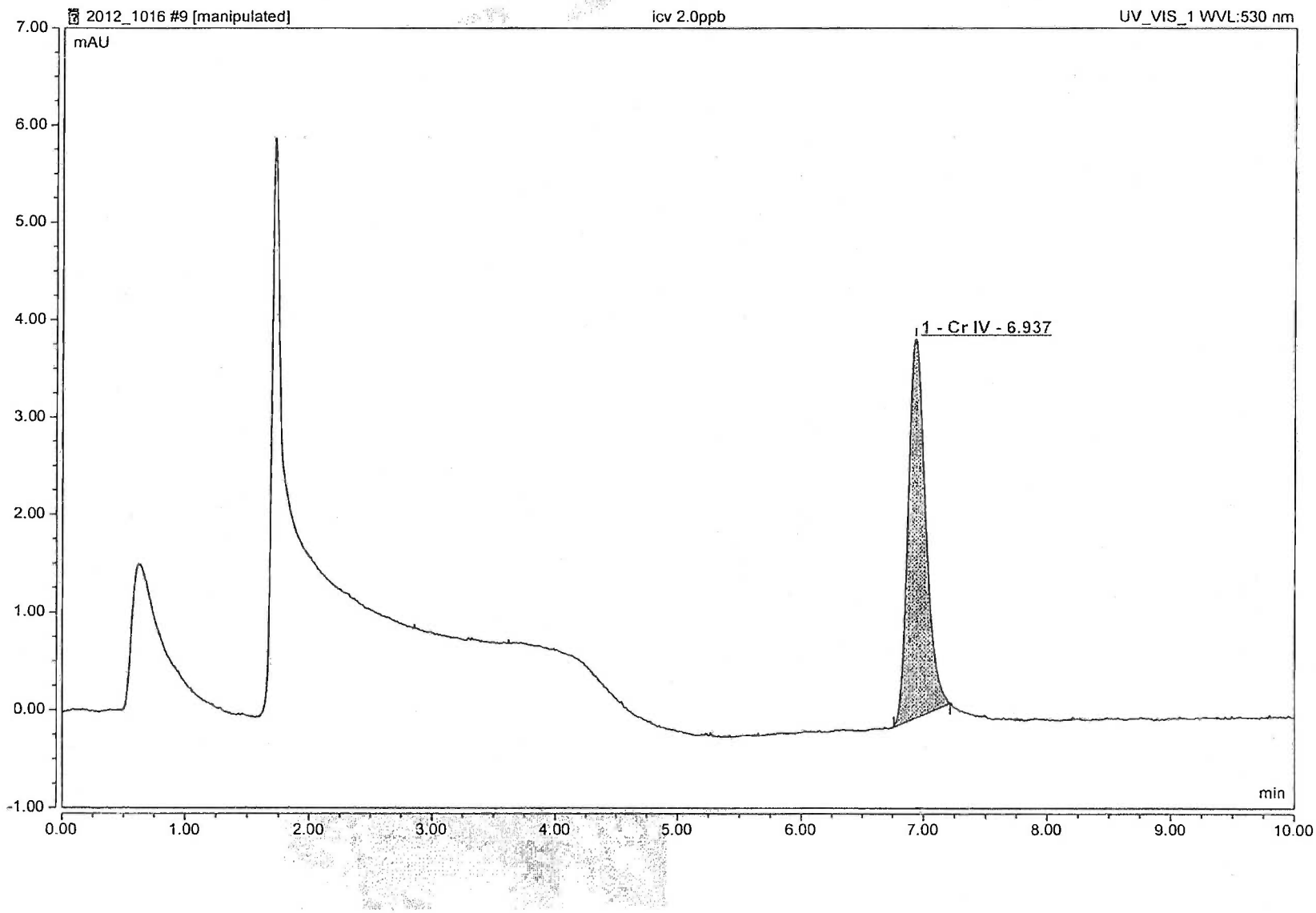
Peak Results

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	CrIV	6.936	9.9903	100.00	3.3178	19.61	BMB*	0.149	1.37	n.a.	11995
Maximum			9.9903	100.00	3.3178	19.61		0.149	1.37	0.00	11995
Minimum			9.9903	100.00	3.3178	19.61		0.149	1.37	0.00	11995
Sum			9.9903	100.00	3.3178	19.61					

ALAB : 00035
LMC-PET-00000217
CONFIDENTIAL

Sequence: 2012_1016
Injection #9: icv 2.0ppb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Printed by rybechay
24/10/12 08:59

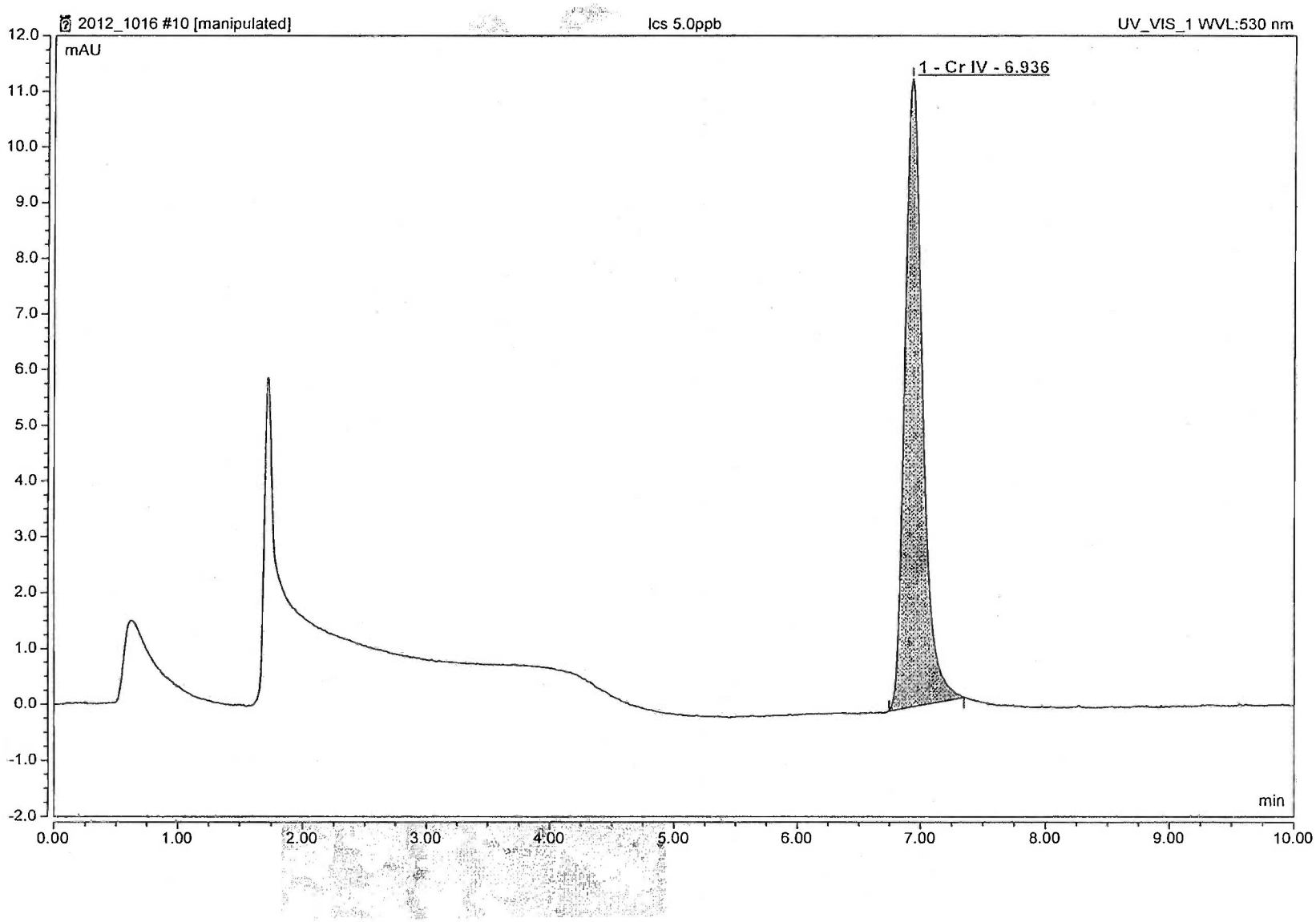
LMC-PET-00000218
CONFIDENTIAL

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.937	1.9144	100.00	0.6358	3.88	BMB	0.149	1.28	n.a.	11985
Maximum			1.9144	100.00	0.6358	3.88		0.149	1.28	0.00	11985
Minimum			1.9144	100.00	0.6358	3.88		0.149	1.28	0.00	11985
Sum			1.9144	100.00	0.6358	3.88					

ALAB : 000036
LMC-PET-00000219
CONFIDENTIAL

Sequence: 2012_1016
Injection #10: lcs 5.0ppb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

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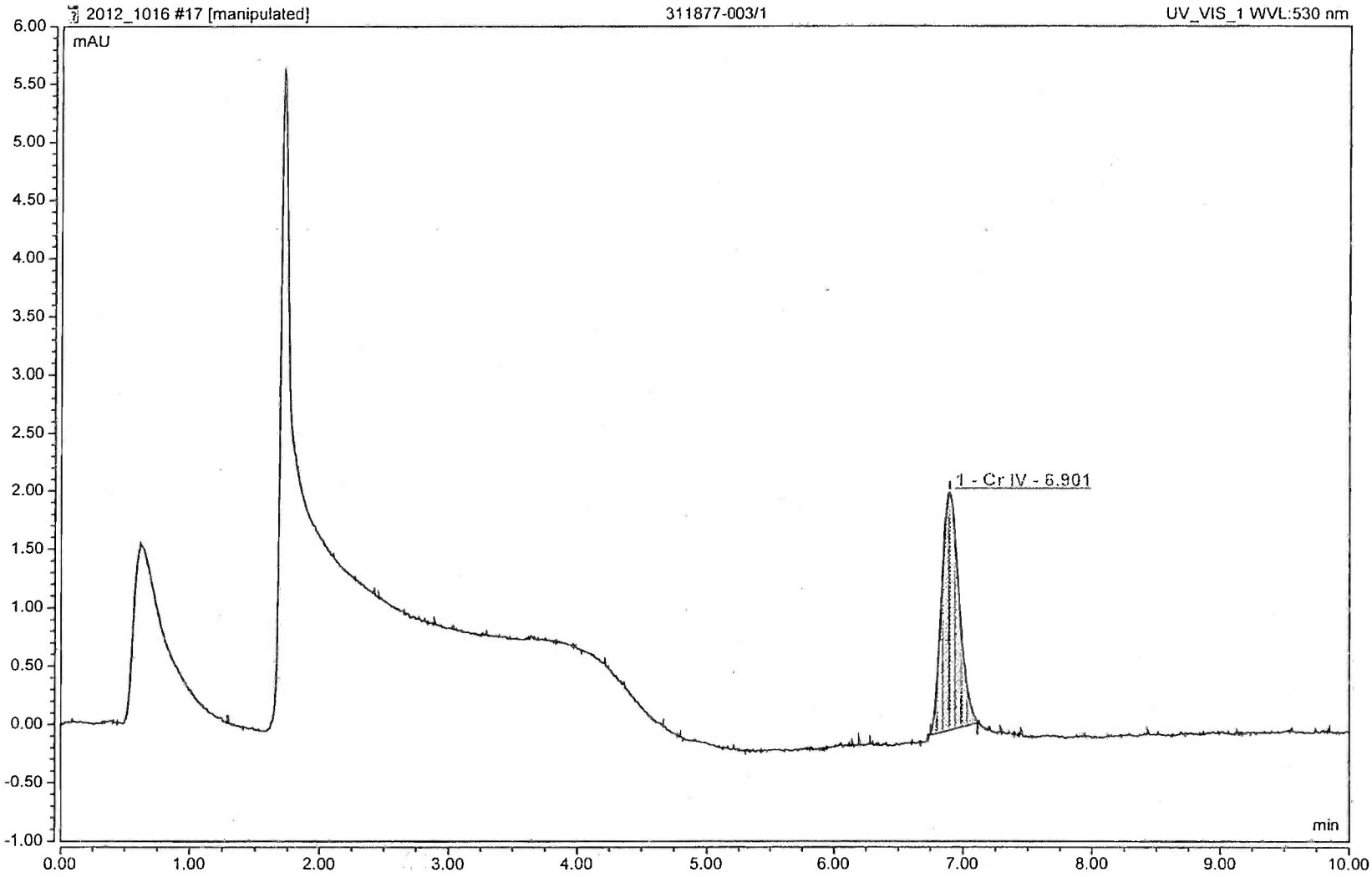
24/10/12 08:59

LMC-PET-00000220

CONFIDENTIAL

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.936	5.6154	100.00	1.8649	11.26	BMB	0.148	1.33	n.a.	12178
Maximum			5.6154	100.00	1.8649	11.26		0.148	1.33	0.00	12178
Minimum			5.6154	100.00	1.8649	11.26		0.148	1.33	0.00	12178
Sum			5.6154	100.00	1.8649	11.26					

ALAB : 99057
LMC-PET-00000221
CONFIDENTIAL



LMC-PET-00000222

CONFIDENTIAL

Sequence: 2012_1016
Injection #17: 311877-003/1

Peak Results

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.901	0.9476	100.00	0.3147	2.04	BMB	0.145	1.17	n.a.	12559
Maximum			0.9476	100.00	0.3147	2.04		0.145	1.17	0.00	12559
Minimum			0.9476	100.00	0.3147	2.04		0.145	1.17	0.00	12559
Sum			0.9476	100.00	0.3147	2.04					

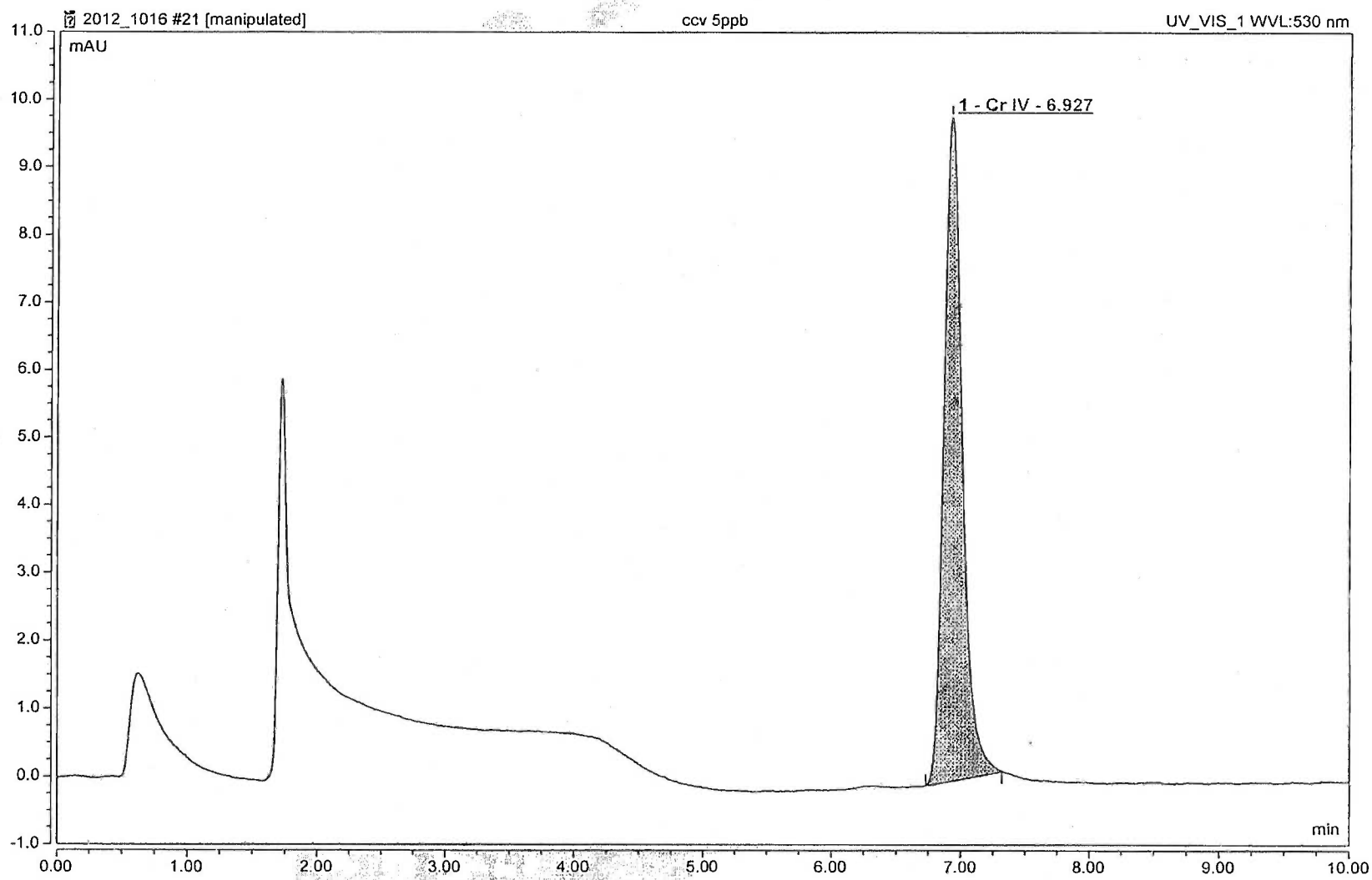
ALAB : 00038

LMC-PET-00000223

CONFIDENTIAL

Sequence: 2012_1016
Injection #21: ccv 5ppb

Chromatogram



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

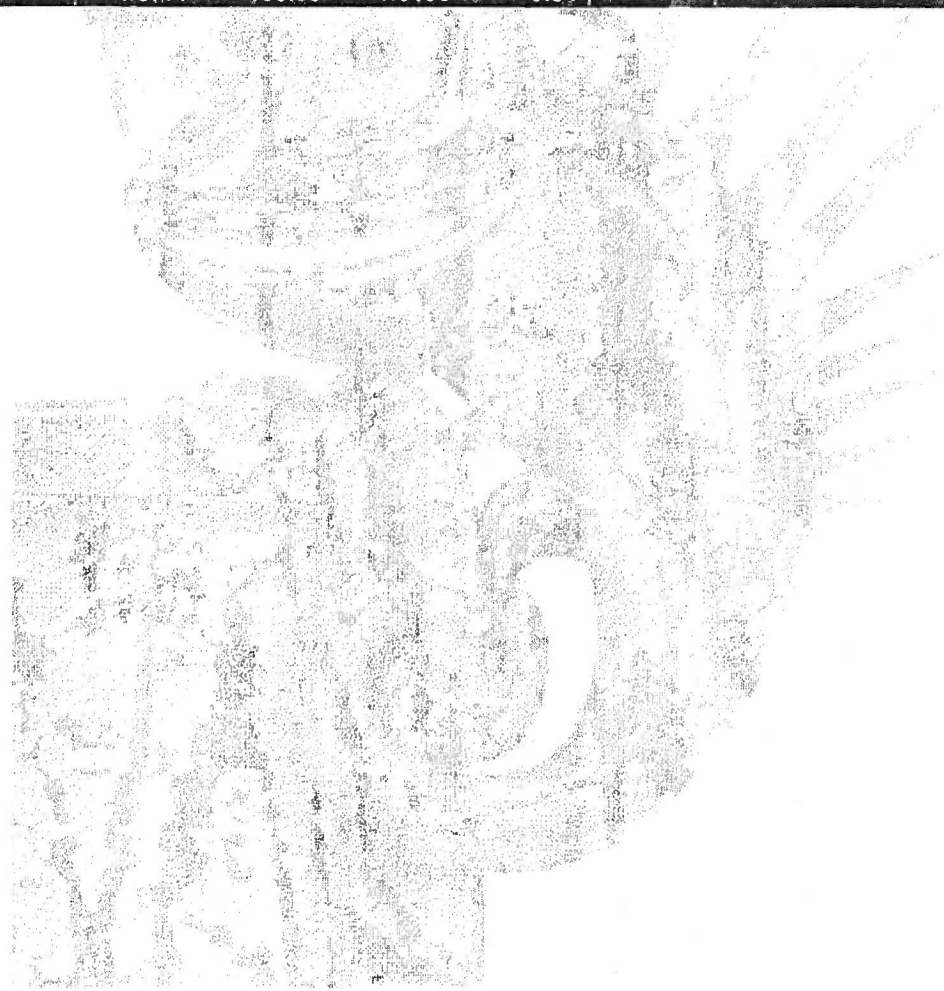
Printed by rybechay
24/10/12 09:00

ALAB : 00039
LMC-PET-00000224
CONFIDENTIAL

Sequence: 2012_1016
Injection #21: ccv 5ppb

Peak Results

Peak No.	Peak Name	Ret.Time min	Amount ppb	Rel.Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.927	4.8777	100.00	1.6199	9.81	BMB	0.148	1.32	n.a.	12109
Maximum			4.8777	100.00	1.6199	9.81		0.148	1.32	0.00	12109
Minimum			4.8777	100.00	1.6199	9.81		0.148	1.32	0.00	12109
Sum			4.8777	100.00	1.6199	9.81					



Chromeleon 7,
Version 7.1.1.1127, Dionex Corporation

Page 1 of 2

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24/10/12 09:00

ALAB : 00040
LMC-PET-00000225
CONFIDENTIAL

EPA 6010B

ICP CAM Metals Only

CONFIDENTIAL

CONFIDENTIAL

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130591
Created Date: 10/17/2012 11:27
Created By: metha
Matrix: Water

Instrument: AAICP (group)
PrepMethod: EPA 3010A/Filtered
PrepDate:
PrepBy: metha

Test: 6010 Alab
Method: EPA 6010B
Analys. Date: 10/17/2012 00:00
Analyst:

Seq #	Sample ID	QC #	Customer Sample ID	QC Source	Sur. Added (PH)	Spk. Added (APP)	Init. Wt/Vol	Final Vol	Extraction Date	Extraction Time	Comments
0	Method Blank	1					25ml	25ml		10/16/12	12:00 PM - 3:30 PM
1	LCS	1									
2 #12	311877-003		3850N		<2	clear					
3	MS	1		311877-003							
4	MSD	1		311877-003							
5 #11	312080-003		MW-1								
6 #13	312080-004		MW-2								
7 #1	312080-005		C-1-CW03								
8 #2	312080-006		C-1-CW02								
9 #1	312080-008		Equipment Blank								
10 #12	312080-009		B-5-CW03								
11 #1	312080-010		B5-CW03 Duplicate								
12 #12	312080-013		B-1-CW12								
13 #14	312080-015		MW-3								
14 #1	312094-003		C-1-CW06								
15 #8	312094-004		B-5-CW02								
16 #1	312094-005		M-W-6								
17 #1	312094-006		C-1-CW08								
18 #2	312094-007		3871G								

InitialCalibSTD: Ca(210081119)_Sep2015, Mg(b8095018-1A)Sep20
CalibCheckSTD: Sn(1115117)_Jan2013, W(1103408_Jan2013
InternalSTD: K(210125007)-Dec2015, Na(211025031)_Feb2016
SurrogateSTD: Bi(1101109)_Jan2013, Si(1102515)_Jan2013
LCSSTD: QC21(1201016)-FeB.2013, QC7(1204808)Feb.201 0.1 ml of qc 7, 21
MSSTD: 50PPM(6-15-12) 0.5 ml of 50 ppm

Solvent Manufacturer and Lot: Hcl # 411060
Sand Manufacturer and Lot: HNO3 # 1112040
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:
Prep By Signature:

LMC-PET-00000227

Sequence No.: 53
Sample ID: 311877-003
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 10/17/2012 1:40:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 311877-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	29.9	0.0002	mg/L	0.00058	0.0002	mg/L	0.00058	250.63%
Al 308.215	1500.1	0.0437	mg/L	0.01032	0.0437	mg/L	0.01032	23.60%
As 188.979	94.0	0.0170	mg/L	0.00199	0.0170	mg/L	0.00199	11.74%
B 249.677	20800.7	0.2353	mg/L	0.02018	0.2353	mg/L	0.02018	8.58%
Ba 233.527	11861.7	0.1152	mg/L	0.00181	0.1152	mg/L	0.00181	1.57%
Be 313.107	2280.7	0.0010	mg/L	0.00014	0.0010	mg/L	0.00014	13.70%
Bi 223.061	20.4	0.0094	mg/L	0.00461	0.0094	mg/L	0.00461	49.00%
Bi 190.171	16.8	0.0208	mg/L	0.00480	0.0208	mg/L	0.00480	23.10%
Ca 315.887	253450.6	125.1	mg/L	3.28	125.1	mg/L	3.28	2.62%
Ca 317.933	299459.6	125.0	mg/L	2.91	125.0	mg/L	2.91	2.33%
Cd 214.440	-129.3	-0.0029	mg/L	0.00006	-0.0029	mg/L	0.00006	2.02%
Co 228.616	40.6	0.0016	mg/L	0.00004	0.0016	mg/L	0.00004	2.50%
Cr 267.716	571.4	0.0148	mg/L	0.00022	0.0148	mg/L	0.00022	1.50%
Cu 324.752	713.8	0.0024	mg/L	0.00125	0.0024	mg/L	0.00125	52.23%
Fe 238.204	447.1	0.0113	mg/L	0.00073	0.0113	mg/L	0.00073	6.46%
Fe 273.955	201.3	0.0121	mg/L	0.00062	0.0121	mg/L	0.00062	5.10%
K 766.490	16854.5	6.381	mg/L	0.0596	6.381	mg/L	0.0596	0.93%
Mg 279.077	6662.8	29.77	mg/L	0.014	29.77	mg/L	0.014	0.05%
Mn 257.610	1018.6	0.0024	mg/L	0.00014	0.0024	mg/L	0.00014	5.95%
Mo 202.031	41.9	0.0094	mg/L	0.00078	0.0094	mg/L	0.00078	8.32%
Na 589.592	236544.3	39.82	mg/L	1.234	39.82	mg/L	1.234	3.10%
Na 330.237	274.9	38.02	mg/L	0.351	38.02	mg/L	0.351	0.92%
Ni 231.604	17.5	0.0009	mg/L	0.00027	0.0009	mg/L	0.00027	28.44%
Pb 220.353	149.2	0.0076	mg/L	0.00009	0.0076	mg/L	0.00009	1.16%
Sb 206.836	5.0	0.0046	mg/L	0.01372	0.0046	mg/L	0.01372	299.16%
Se 196.026	-61.3	-0.0078	mg/L	0.00845	-0.0078	mg/L	0.00845	107.91%
Sn 189.927	-99.3	-0.0323	mg/L	0.00215	-0.0323	mg/L	0.00215	6.66%
Sr 407.771	380568.0	0.8847	mg/L	0.02294	0.8847	mg/L	0.02294	2.59%
Sr 421.552	215398.9	0.8959	mg/L	0.02959	0.8959	mg/L	0.02959	3.30%
Ti 334.940	2745.4	0.0075	mg/L	0.00048	0.0075	mg/L	0.00048	6.47%
Tl 190.801	-54.1	-0.0098	mg/L	0.00068	-0.0098	mg/L	0.00068	6.93%
V 290.880	316.0	0.0020	mg/L	0.00071	0.0020	mg/L	0.00071	34.71%
W 207.912	14.9	0.0060	mg/L	0.00007	0.0060	mg/L	0.00007	1.16%
Y 371.029	1364.4						210.62	15.44%
Zn 206.200	3838.3	0.2608	mg/L	0.00463	0.2608	mg/L	0.00463	1.78%
P 213.617	42.5	0.0313	mg/L	0.00073	0.0313	mg/L	0.00073	2.33%
Si 251.611	531535.6	13.55	mg/L	0.723	13.55	mg/L	0.723	5.33%
Li 670.784	907.6	0.0138	mg/L	0.00641	0.0138	mg/L	0.00641	46.33%
Li 610.362	-1943.4	-0.2814	mg/L	0.07285	-0.2814	mg/L	0.07285	25.89%
S 181.975	7813.0	32.10	mg/L	0.679	32.10	mg/L	0.679	2.11%

ALAB : 00043

Sequence No.: 54
Sample ID: MS
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 10/17/2012 1:42:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	69710.8	0.5369	mg/L	0.01365	0.5369	mg/L	0.01365	2.54%
Al 308.215	36422.8	1.062	mg/L	0.0109	1.062	mg/L	0.0109	1.03%
As 188.979	5875.4	1.061	mg/L	0.0099	1.061	mg/L	0.0099	0.93%
B 249.677	117145.7	1.325	mg/L	0.0319	1.325	mg/L	0.0319	2.40%
Ba 233.527	124949.3	1.213	mg/L	0.0314	1.213	mg/L	0.0314	2.59%
Be 313.107	2254989.2	1.019	mg/L	0.0731	1.019	mg/L	0.0731	7.18%
Bi 223.061	-49.3	-0.0227	mg/L	0.00370	-0.0227	mg/L	0.00370	16.31%
Bi 190.171	13.9	0.0171	mg/L	0.00650	0.0171	mg/L	0.00650	38.00%
Ca 315.887	252236.4	124.5	mg/L	1.84	124.5	mg/L	1.84	1.48%
Ca 317.933	298068.5	124.4	mg/L	2.25	124.4	mg/L	2.25	1.81%
Cd 214.440	44541.2	1.005	mg/L	0.0373	1.005	mg/L	0.0373	3.71%
Co 228.616	25283.7	0.9902	mg/L	0.02320	0.9902	mg/L	0.02320	2.34%
Cr 267.716	42110.5	1.091	mg/L	0.0199	1.091	mg/L	0.0199	1.82%
Cu 324.752	307321.7	1.032	mg/L	0.0173	1.032	mg/L	0.0173	1.68%
Fe 238.204	43033.4	1.092	mg/L	0.0346	1.092	mg/L	0.0346	3.17%
Fe 273.955	17511.6	1.052	mg/L	0.0196	1.052	mg/L	0.0196	1.87%
K 766.490	48142.2	18.23	mg/L	0.129	18.23	mg/L	0.129	0.71%
Mg 279.077	6740.0	30.12	mg/L	0.259	30.12	mg/L	0.259	0.86%
Mn 257.610	430811.5	1.003	mg/L	0.0778	1.003	mg/L	0.0778	7.76%
Mo 202.031	4261.6	0.9555	mg/L	0.00258	0.9555	mg/L	0.00258	0.27%
Na 589.592	238134.4	40.09	mg/L	0.420	40.09	mg/L	0.420	1.05%
Na 330.237	240.6	33.27	mg/L	1.480	33.27	mg/L	1.480	4.45%
Ni 231.604	19829.3	1.058	mg/L	0.0371	1.058	mg/L	0.0371	3.51%
Pb 220.353	19138.5	0.9734	mg/L	0.00133	0.9734	mg/L	0.00133	0.14%
Sb 206.836	1084.0	0.9869	mg/L	0.00373	0.9869	mg/L	0.00373	0.38%
Se 196.026	7757.2	0.9902	mg/L	0.02021	0.9902	mg/L	0.02021	2.04%
Sn 189.927	-114.1	-0.0371	mg/L	0.00032	-0.0371	mg/L	0.00032	0.85%
Sr 407.771	804532.9	1.870	mg/L	0.0266	1.870	mg/L	0.0266	1.42%
Sr 421.552	454303.3	1.890	mg/L	0.0252	1.890	mg/L	0.0252	1.33%
Ti 334.940	385436.9	1.047	mg/L	0.0748	1.047	mg/L	0.0748	7.15%
Tl 190.801	5481.8	0.9914	mg/L	0.00199	0.9914	mg/L	0.00199	0.20%
V 290.880	164657.8	1.066	mg/L	0.0277	1.066	mg/L	0.0277	2.60%
W 207.912	32.2	0.0130	mg/L	0.00024	0.0130	mg/L	0.00024	1.83%
Y 371.029	1333.5						8.37	0.63%
Zn 206.200	19588.5	1.331	mg/L	0.0461	1.331	mg/L	0.0461	3.47%
P 213.617	-1691.4	-1.244	mg/L	0.0040	-1.244	mg/L	0.0040	0.32%
Si 251.611	523833.7	13.35	mg/L	0.992	13.35	mg/L	0.992	7.43%
Li 670.784	71045.7	1.083	mg/L	0.0034	1.083	mg/L	0.0034	0.31%
Li 610.362	5778.3	0.8368	mg/L	0.10839	0.8368	mg/L	0.10839	12.95%
S 181.975	7619.1	31.30	mg/L	0.022	31.30	mg/L	0.022	0.07%

ALAB : 00044

Sequence No.: 55
Sample ID: MSD
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 10/17/2012 1:45:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	65980.9	0.5082	mg/L	0.00969	0.5082	mg/L	0.00969	1.91%
Al 308.215	34041.2	0.9927	mg/L	0.01489	0.9927	mg/L	0.01489	1.50%
As 188.979	5830.7	1.053	mg/L	0.0027	1.053	mg/L	0.0027	0.26%
B 249.677	110566.1	1.251	mg/L	0.0337	1.251	mg/L	0.0337	2.70%
Ba 233.527	119817.3	1.163	mg/L	0.0189	1.163	mg/L	0.0189	1.63%
Be 313.107	2271328.5	1.026	mg/L	0.0609	1.026	mg/L	0.0609	5.93%
Bi 223.061	-35.2	-0.0162	mg/L	0.00309	-0.0162	mg/L	0.00309	19.06%
Bi 190.171	22.2	0.0274	mg/L	0.00708	0.0274	mg/L	0.00708	25.84%
Ca 315.887	244397.0	120.6	mg/L	10.75	120.6	mg/L	10.75	8.92%
Ca 317.933	287232.3	119.9	mg/L	11.12	119.9	mg/L	11.12	9.28%
Cd 214.440	42605.7	0.9612	mg/L	0.00840	0.9612	mg/L	0.00840	0.87%
Co 228.616	24298.6	0.9517	mg/L	0.02267	0.9517	mg/L	0.02267	2.38%
Cr 267.716	40685.2	1.054	mg/L	0.0213	1.054	mg/L	0.0213	2.02%
Cu 324.752	287274.6	0.9644	mg/L	0.02137	0.9644	mg/L	0.02137	2.22%
Fe 238.204	41234.9	1.046	mg/L	0.0183	1.046	mg/L	0.0183	1.75%
Fe 273.955	16814.8	1.010	mg/L	0.0147	1.010	mg/L	0.0147	1.46%
K 766.490	46207.3	17.49	mg/L	1.520	17.49	mg/L	1.520	8.69%
Mg 279.077	6845.2	30.59	mg/L	0.479	30.59	mg/L	0.479	1.57%
Mn 257.610	434896.0	1.012	mg/L	0.0451	1.012	mg/L	0.0451	4.46%
Mo 202.031	4217.9	0.9457	mg/L	0.00718	0.9457	mg/L	0.00718	0.76%
Na 589.592	231924.1	39.04	mg/L	3.314	39.04	mg/L	3.314	8.49%
Na 330.237	258.8	35.79	mg/L	0.137	35.79	mg/L	0.137	0.38%
Ni 231.604	18805.4	1.003	mg/L	0.0105	1.003	mg/L	0.0105	1.05%
Pb 220.353	18871.1	0.9598	mg/L	0.00013	0.9598	mg/L	0.00013	0.01%
Sb 206.836	1056.9	0.9622	mg/L	0.00141	0.9622	mg/L	0.00141	0.15%
Se 196.026	7917.3	1.011	mg/L	0.0122	1.011	mg/L	0.0122	1.21%
Sn 189.927	-112.2	-0.0365	mg/L	0.00046	-0.0365	mg/L	0.00046	1.26%
Sr 407.771	781341.8	1.816	mg/L	0.1515	1.816	mg/L	0.1515	8.34%
Sr 421.552	439363.5	1.828	mg/L	0.1506	1.828	mg/L	0.1506	8.24%
Ti 334.940	386601.5	1.050	mg/L	0.0560	1.050	mg/L	0.0560	5.33%
Tl 190.801	5399.4	0.9765	mg/L	0.00420	0.9765	mg/L	0.00420	0.43%
V 290.880	156618.3	1.014	mg/L	0.0157	1.014	mg/L	0.0157	1.55%
W 207.912	38.4	0.0155	mg/L	0.00061	0.0155	mg/L	0.00061	3.91%
Y 371.029	1739.9						83.94	4.82%
Zn 206.200	18425.7	1.252	mg/L	0.0292	1.252	mg/L	0.0292	2.33%
P 213.617	-1696.2	-1.248	mg/L	0.0255	-1.248	mg/L	0.0255	2.04%
Si 251.611	530122.6	13.51	mg/L	0.701	13.51	mg/L	0.701	5.18%
Li 670.784	69149.7	1.054	mg/L	0.0618	1.054	mg/L	0.0618	5.86%
Li 610.362	5967.8	0.8642	mg/L	0.16578	0.8642	mg/L	0.16578	19.18%
S 181.975	7586.9	31.17	mg/L	0.183	31.17	mg/L	0.183	0.59%

ALAB: 00045

Sequence No.: 51
Sample ID: Method Blank
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 10/17/2012 1:34:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Method Blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	20.7	0.0002	mg/L	0.00067	0.0002	mg/L	0.00067	419.55%
Al 308.215	-83.4	-0.0024	mg/L	0.00090	-0.0024	mg/L	0.00090	37.07%
As 188.979	-0.7	-0.0001	mg/L	0.00259	-0.0001	mg/L	0.00259	>999.9%
B 249.677	-4150.1	-0.0469	mg/L	0.00026	-0.0469	mg/L	0.00026	0.55%
Ba 233.527	20.2	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.41%
Be 313.107	117.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	32.60%
Bi 223.061	11.0	0.0051	mg/L	0.01145	0.0051	mg/L	0.01145	226.35%
Bi 190.171	-0.5	-0.0006	mg/L	0.00548	-0.0006	mg/L	0.00548	913.29%
Ca 315.887	-7.7	-0.0038	mg/L	0.00151	-0.0038	mg/L	0.00151	39.65%
Ca 317.933	-10.8	-0.0045	mg/L	0.00042	-0.0045	mg/L	0.00042	9.36%
Cd 214.440	0.7	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	80.51%
Co 228.616	5.5	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.72%
Cr 267.716	11.2	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	45.96%
Cu 324.752	-81.7	-0.0003	mg/L	0.00012	-0.0003	mg/L	0.00012	44.98%
Fe 238.204	-41.4	-0.0010	mg/L	0.00003	-0.0010	mg/L	0.00003	3.14%
Fe 273.955	48.3	0.0029	mg/L	0.00005	0.0029	mg/L	0.00005	1.65%
K 766.490	107.8	0.0408	mg/L	0.32433	0.0408	mg/L	0.32433	794.64%
Mg 279.077	7.8	0.0347	mg/L	0.01028	0.0347	mg/L	0.01028	29.64%
Mn 257.610	-13.9	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	5.68%
Mo 202.031	-3.8	-0.0009	mg/L	0.00083	-0.0009	mg/L	0.00083	96.40%
Na 589.592	407.3	0.0686	mg/L	0.01605	0.0686	mg/L	0.01605	23.41%
Na 330.237	-2.8	-0.3859	mg/L	0.02518	-0.3859	mg/L	0.02518	6.53%
Ni 231.604	3.1	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	85.69%
Pb 220.353	37.8	0.0019	mg/L	0.00181	0.0019	mg/L	0.00181	93.91%
Sb 206.836	-10.1	-0.0092	mg/L	0.00414	-0.0092	mg/L	0.00414	44.99%
Se 196.026	-67.0	-0.0086	mg/L	0.00110	-0.0086	mg/L	0.00110	12.91%
Sn 189.927	1.2	0.0004	mg/L	0.00043	0.0004	mg/L	0.00043	113.76%
Sr 407.771	133.9	0.0003	mg/L	0.00000	0.0003	mg/L	0.00000	0.66%
Sr 421.552	32.1	0.0001	mg/L	0.00032	0.0001	mg/L	0.00032	240.10%
Ti 334.940	-161.0	-0.0004	mg/L	0.00010	-0.0004	mg/L	0.00010	22.24%
Tl 190.801	-6.1	-0.0011	mg/L	0.00285	-0.0011	mg/L	0.00285	260.19%
V 290.880	81.2	0.0005	mg/L	0.00052	0.0005	mg/L	0.00052	98.83%
W 207.912	-1.5	-0.0006	mg/L	0.00109	-0.0006	mg/L	0.00109	175.93%
Y 371.029	1608.3						36.86	2.29%
Zn 206.200	0.8	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	327.37%
P 213.617	13.9	0.0102	mg/L	0.00049	0.0102	mg/L	0.00049	4.78%
Si 251.611	-58.1	-0.0015	mg/L	0.00007	-0.0015	mg/L	0.00007	4.93%
Li 670.784	170.7	0.0026	mg/L	0.00155	0.0026	mg/L	0.00155	59.40%
Li 610.362	0.9	0.0001	mg/L	0.03380	0.0001	mg/L	0.03380	>999.9%
S 181.975	4.5	0.0185	mg/L	0.00231	0.0185	mg/L	0.00231	12.46%

Sequence No.: 52
Sample ID: LCS
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 10/17/2012 1:37:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	136657.9	1.052	mg/L	0.0286	1.052	mg/L	0.0286	2.71%
Al 308.215	74111.5	2.161	mg/L	0.0091	2.161	mg/L	0.0091	0.42%
As 188.979	11775.2	2.127	mg/L	0.0017	2.127	mg/L	0.0017	0.08%
B 249.677	184400.1	2.086	mg/L	0.0333	2.086	mg/L	0.0333	1.60%
Ba 233.527	234461.0	2.276	mg/L	0.0759	2.276	mg/L	0.0759	3.33%
Be 313.107	4964591.1	2.243	mg/L	0.0376	2.243	mg/L	0.0376	1.68%
Bi 223.061	-117.4	-0.0541	mg/L	0.00354	-0.0541	mg/L	0.00354	6.55%
Bi 190.171	7.2	0.0089	mg/L	0.00027	0.0089	mg/L	0.00027	3.00%
Ca 315.887	5105.8	2.519	mg/L	0.0208	2.519	mg/L	0.0208	0.82%
Ca 317.933	6008.9	2.508	mg/L	0.0292	2.508	mg/L	0.0292	1.17%
Cd 214.440	92907.8	2.096	mg/L	0.0455	2.096	mg/L	0.0455	2.17%
Co 228.616	55518.6	2.174	mg/L	0.0393	2.174	mg/L	0.0393	1.81%
Cr 267.716	86487.3	2.240	mg/L	0.0371	2.240	mg/L	0.0371	1.66%
Cu 324.752	642327.8	2.156	mg/L	0.0723	2.156	mg/L	0.0723	3.35%
Fe 238.204	88737.2	2.251	mg/L	0.0434	2.251	mg/L	0.0434	1.93%
Fe 273.955	36520.3	2.193	mg/L	0.0427	2.193	mg/L	0.0427	1.95%
K 766.490	58499.4	22.15	mg/L	0.092	22.15	mg/L	0.092	0.41%
Mg 279.077	550.0	2.458	mg/L	0.0523	2.458	mg/L	0.0523	2.13%
Mn 257.610	949789.9	2.211	mg/L	0.0653	2.211	mg/L	0.0653	2.96%
Mo 202.031	9028.3	2.024	mg/L	0.0223	2.024	mg/L	0.0223	1.10%
Na 589.592	14545.9	2.449	mg/L	0.0059	2.449	mg/L	0.0059	0.24%
Na 330.237	-38.7	-5.357	mg/L	0.5359	-5.357	mg/L	0.5359	10.00%
Ni 231.604	41329.2	2.205	mg/L	0.0363	2.205	mg/L	0.0363	1.65%
Pb 220.353	42491.3	2.161	mg/L	0.0307	2.161	mg/L	0.0307	1.42%
Sb 206.836	2247.7	2.046	mg/L	0.0140	2.046	mg/L	0.0140	0.68%
Se 196.026	15824.1	2.020	mg/L	0.0159	2.020	mg/L	0.0159	0.79%
Sn 189.927	-13.5	-0.0044	mg/L	0.00020	-0.0044	mg/L	0.00020	4.63%
Sr 407.771	854610.7	1.987	mg/L	0.0450	1.987	mg/L	0.0450	2.26%
Sr 421.552	482047.2	2.005	mg/L	0.0495	2.005	mg/L	0.0495	2.47%
Ti 334.940	828825.2	2.252	mg/L	0.0695	2.252	mg/L	0.0695	3.09%
Tl 190.801	12138.2	2.195	mg/L	0.0036	2.195	mg/L	0.0036	0.17%
V 290.880	338837.9	2.193	mg/L	0.0703	2.193	mg/L	0.0703	3.21%
W 207.912	39.7	0.0160	mg/L	0.00004	0.0160	mg/L	0.00004	0.28%
Y 371.029	1454.7						138.18	9.50%
Zn 206.200	32045.3	2.177	mg/L	0.0408	2.177	mg/L	0.0408	1.88%
P 213.617	-3971.1	-2.921	mg/L	0.0829	-2.921	mg/L	0.0829	2.84%
Si 251.611	84171.9	2.146	mg/L	0.0213	2.146	mg/L	0.0213	0.99%
Li 670.784	138749.7	2.115	mg/L	0.0210	2.115	mg/L	0.0210	0.99%
Li 610.362	14273.9	2.067	mg/L	0.1040	2.067	mg/L	0.1040	5.03%
S 181.975	17.5	0.0720	mg/L	0.02574	0.0720	mg/L	0.02574	35.76%

Sequence No.: 53
Sample ID: 311877-003
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 10/17/2012 1:40:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 311877-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	29.9	0.0002	mg/L	0.00058	0.0002	mg/L	0.00058	250.63%
Al 308.215	1500.1	0.0437	mg/L	0.01032	0.0437	mg/L	0.01032	23.60%
As 188.979	94.0	0.0170	mg/L	0.00199	0.0170	mg/L	0.00199	11.74%
B 249.677	20800.7	0.2353	mg/L	0.02018	0.2353	mg/L	0.02018	8.58%
Ba 233.527	11861.7	0.1152	mg/L	0.00181	0.1152	mg/L	0.00181	1.57%
Be 313.107	2280.7	0.0010	mg/L	0.00014	0.0010	mg/L	0.00014	13.70%
Bi 223.061	20.4	0.0094	mg/L	0.00461	0.0094	mg/L	0.00461	49.00%
Bi 190.171	16.8	0.0208	mg/L	0.00480	0.0208	mg/L	0.00480	23.10%
Ca 315.887	253450.6	125.1	mg/L	3.28	125.1	mg/L	3.28	2.62%
Ca 317.933	299459.6	125.0	mg/L	2.91	125.0	mg/L	2.91	2.33%
Cd 214.440	-129.3	-0.0029	mg/L	0.00006	-0.0029	mg/L	0.00006	2.02%
Co 228.616	40.6	0.0016	mg/L	0.00004	0.0016	mg/L	0.00004	2.50%
Cr 267.716	571.4	0.0148	mg/L	0.00022	0.0148	mg/L	0.00022	1.50%
Cu 324.752	713.8	0.0024	mg/L	0.00125	0.0024	mg/L	0.00125	52.23%
Fe 238.204	447.1	0.0113	mg/L	0.00073	0.0113	mg/L	0.00073	6.46%
Fe 273.955	201.3	0.0121	mg/L	0.00062	0.0121	mg/L	0.00062	5.10%
K 766.490	16854.5	6.381	mg/L	0.0596	6.381	mg/L	0.0596	0.93%
Mg 279.077	6662.8	29.77	mg/L	0.014	29.77	mg/L	0.014	0.05%
Mn 257.610	1018.6	0.0024	mg/L	0.00014	0.0024	mg/L	0.00014	5.95%
Mo 202.031	41.9	0.0094	mg/L	0.00078	0.0094	mg/L	0.00078	8.32%
Na 589.592	236544.3	39.82	mg/L	1.234	39.82	mg/L	1.234	3.10%
Na 330.237	274.9	38.02	mg/L	0.351	38.02	mg/L	0.351	0.92%
Ni 231.604	17.5	0.0009	mg/L	0.00027	0.0009	mg/L	0.00027	28.44%
Pb 220.353	149.2	0.0076	mg/L	0.00009	0.0076	mg/L	0.00009	1.16%
Sb 206.836	5.0	0.0046	mg/L	0.01372	0.0046	mg/L	0.01372	299.16%
Se 196.026	-61.3	-0.0078	mg/L	0.00845	-0.0078	mg/L	0.00845	107.91%
Sn 189.927	-99.3	-0.0323	mg/L	0.00215	-0.0323	mg/L	0.00215	6.66%
Sr 407.771	380568.0	0.8847	mg/L	0.02294	0.8847	mg/L	0.02294	2.59%
Sr 421.552	215398.9	0.8959	mg/L	0.02959	0.8959	mg/L	0.02959	3.30%
Ti 334.940	2745.4	0.0075	mg/L	0.00048	0.0075	mg/L	0.00048	6.47%
Tl 190.801	-54.1	-0.0098	mg/L	0.00068	-0.0098	mg/L	0.00068	6.93%
V 290.880	316.0	0.0020	mg/L	0.00071	0.0020	mg/L	0.00071	34.71%
W 207.912	14.9	0.0060	mg/L	0.00007	0.0060	mg/L	0.00007	1.16%
Y 371.029	1364.4						210.62	15.44%
Zn 206.200	3838.3	0.2608	mg/L	0.00463	0.2608	mg/L	0.00463	1.78%
P 213.617	42.5	0.0313	mg/L	0.00073	0.0313	mg/L	0.00073	2.33%
Si 251.611	531535.6	13.55	mg/L	0.723	13.55	mg/L	0.723	5.33%
Li 670.784	907.6	0.0138	mg/L	0.00641	0.0138	mg/L	0.00641	46.33%
Li 610.362	-1943.4	-0.2814	mg/L	0.07285	-0.2814	mg/L	0.07285	25.89%
S 181.975	7813.0	32.10	mg/L	0.679	32.10	mg/L	0.679	2.11%

ALAB : 00048

Sequence No.: 54
Sample ID: MS
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 10/17/2012 1:42:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	69710.8	0.5369	mg/L	0.01365	0.5369	mg/L	0.01365	2.54%
Al 308.215	36422.8	1.062	mg/L	0.0109	1.062	mg/L	0.0109	1.03%
As 188.979	5875.4	1.061	mg/L	0.0099	1.061	mg/L	0.0099	0.93%
B 249.677	117145.7	1.325	mg/L	0.0319	1.325	mg/L	0.0319	2.40%
Ba 233.527	124949.3	1.213	mg/L	0.0314	1.213	mg/L	0.0314	2.59%
Be 313.107	2254989.2	1.019	mg/L	0.0731	1.019	mg/L	0.0731	7.18%
Bi 223.061	-49.3	-0.0227	mg/L	0.00370	-0.0227	mg/L	0.00370	16.31%
Bi 190.171	13.9	0.0171	mg/L	0.00650	0.0171	mg/L	0.00650	38.00%
Ca 315.887	252236.4	124.5	mg/L	1.84	124.5	mg/L	1.84	1.48%
Ca 317.933	298068.5	124.4	mg/L	2.25	124.4	mg/L	2.25	1.81%
Cd 214.440	44541.2	1.005	mg/L	0.0373	1.005	mg/L	0.0373	3.71%
Co 228.616	25283.7	0.9902	mg/L	0.02320	0.9902	mg/L	0.02320	2.34%
Cr 267.716	42110.5	1.091	mg/L	0.0199	1.091	mg/L	0.0199	1.82%
Cu 324.752	307321.7	1.032	mg/L	0.0173	1.032	mg/L	0.0173	1.68%
Fe 238.204	43033.4	1.092	mg/L	0.0346	1.092	mg/L	0.0346	3.17%
Fe 273.955	17511.6	1.052	mg/L	0.0196	1.052	mg/L	0.0196	1.87%
K 766.490	48142.2	18.23	mg/L	0.129	18.23	mg/L	0.129	0.71%
Mg 279.077	6740.0	30.12	mg/L	0.259	30.12	mg/L	0.259	0.86%
Mn 257.610	430811.5	1.003	mg/L	0.0778	1.003	mg/L	0.0778	7.76%
Mo 202.031	4261.6	0.9555	mg/L	0.00258	0.9555	mg/L	0.00258	0.27%
Na 589.592	238134.4	40.09	mg/L	0.420	40.09	mg/L	0.420	1.05%
Na 330.237	240.6	33.27	mg/L	1.480	33.27	mg/L	1.480	4.45%
Ni 231.604	19829.3	1.058	mg/L	0.0371	1.058	mg/L	0.0371	3.51%
Pb 220.353	19138.5	0.9734	mg/L	0.00133	0.9734	mg/L	0.00133	0.14%
Sb 206.836	1084.0	0.9869	mg/L	0.00373	0.9869	mg/L	0.00373	0.38%
Se 196.026	7757.2	0.9902	mg/L	0.02021	0.9902	mg/L	0.02021	2.04%
Sn 189.927	-114.1	-0.0371	mg/L	0.00032	-0.0371	mg/L	0.00032	0.85%
Sr 407.771	804532.9	1.870	mg/L	0.0266	1.870	mg/L	0.0266	1.42%
Sr 421.552	454303.3	1.890	mg/L	0.0252	1.890	mg/L	0.0252	1.33%
Ti 334.940	385436.9	1.047	mg/L	0.0748	1.047	mg/L	0.0748	7.15%
Tl 190.801	5481.8	0.9914	mg/L	0.00199	0.9914	mg/L	0.00199	0.20%
V 290.880	164657.8	1.066	mg/L	0.0277	1.066	mg/L	0.0277	2.60%
W 207.912	32.2	0.0130	mg/L	0.00024	0.0130	mg/L	0.00024	1.83%
Y 371.029	1333.5						8.37	0.63%
Zn 206.200	19588.5	1.331	mg/L	0.0461	1.331	mg/L	0.0461	3.47%
P 213.617	-1691.4	-1.244	mg/L	0.0040	-1.244	mg/L	0.0040	0.32%
Si 251.611	523833.7	13.35	mg/L	0.992	13.35	mg/L	0.992	7.43%
Li 670.784	71045.7	1.083	mg/L	0.0034	1.083	mg/L	0.0034	0.31%
Li 610.362	5778.3	0.8368	mg/L	0.10839	0.8368	mg/L	0.10839	12.95%
S 181.975	7619.1	31.30	mg/L	0.022	31.30	mg/L	0.022	0.07%

ALAB : 00049

Sequence No.: 55
Sample ID: MSD
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 10/17/2012 1:45:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	65980.9	0.5082	mg/L	0.00969	0.5082	mg/L	0.00969	1.91%
Al 308.215	34041.2	0.9927	mg/L	0.01489	0.9927	mg/L	0.01489	1.50%
As 188.979	5830.7	1.053	mg/L	0.0027	1.053	mg/L	0.0027	0.26%
B 249.677	110566.1	1.251	mg/L	0.0337	1.251	mg/L	0.0337	2.70%
Ba 233.527	119817.3	1.163	mg/L	0.0189	1.163	mg/L	0.0189	1.63%
Be 313.107	2271328.5	1.026	mg/L	0.0609	1.026	mg/L	0.0609	5.93%
Bi 223.061	-35.2	-0.0162	mg/L	0.00309	-0.0162	mg/L	0.00309	19.06%
Bi 190.171	22.2	0.0274	mg/L	0.00708	0.0274	mg/L	0.00708	25.84%
Ca 315.887	244397.0	120.6	mg/L	10.75	120.6	mg/L	10.75	8.92%
Ca 317.933	287232.3	119.9	mg/L	11.12	119.9	mg/L	11.12	9.28%
Cd 214.440	42605.7	0.9612	mg/L	0.00840	0.9612	mg/L	0.00840	0.87%
Co 228.616	24298.6	0.9517	mg/L	0.02267	0.9517	mg/L	0.02267	2.38%
Cr 267.716	40685.2	1.054	mg/L	0.0213	1.054	mg/L	0.0213	2.02%
Cu 324.752	287274.6	0.9644	mg/L	0.02137	0.9644	mg/L	0.02137	2.22%
Fe 238.204	41234.9	1.046	mg/L	0.0183	1.046	mg/L	0.0183	1.75%
Fe 273.955	16814.8	1.010	mg/L	0.0147	1.010	mg/L	0.0147	1.46%
K 766.490	46207.3	17.49	mg/L	1.520	17.49	mg/L	1.520	8.69%
Mg 279.077	6845.2	30.59	mg/L	0.479	30.59	mg/L	0.479	1.57%
Mn 257.610	434896.0	1.012	mg/L	0.0451	1.012	mg/L	0.0451	4.46%
Mo 202.031	4217.9	0.9457	mg/L	0.00718	0.9457	mg/L	0.00718	0.76%
Na 589.592	231924.1	39.04	mg/L	3.314	39.04	mg/L	3.314	8.49%
Na 330.237	258.8	35.79	mg/L	0.137	35.79	mg/L	0.137	0.38%
Ni 231.604	18805.4	1.003	mg/L	0.0105	1.003	mg/L	0.0105	1.05%
Pb 220.353	18871.1	0.9598	mg/L	0.00013	0.9598	mg/L	0.00013	0.01%
Sb 206.836	1056.9	0.9622	mg/L	0.00141	0.9622	mg/L	0.00141	0.15%
Se 196.026	7917.3	1.011	mg/L	0.0122	1.011	mg/L	0.0122	1.21%
Sn 189.927	-112.2	-0.0365	mg/L	0.00046	-0.0365	mg/L	0.00046	1.26%
Sr 407.771	781341.8	1.816	mg/L	0.1515	1.816	mg/L	0.1515	8.34%
Sr 421.552	439363.5	1.828	mg/L	0.1506	1.828	mg/L	0.1506	8.24%
Ti 334.940	386601.5	1.050	mg/L	0.0560	1.050	mg/L	0.0560	5.33%
Tl 190.801	5399.4	0.9765	mg/L	0.00420	0.9765	mg/L	0.00420	0.43%
V 290.880	156618.3	1.014	mg/L	0.0157	1.014	mg/L	0.0157	1.55%
W 207.912	38.4	0.0155	mg/L	0.00061	0.0155	mg/L	0.00061	3.91%
Y 371.029	1739.9						83.94	4.82%
Zn 206.200	18425.7	1.252	mg/L	0.0292	1.252	mg/L	0.0292	2.33%
P 213.617	-1696.2	-1.248	mg/L	0.0255	-1.248	mg/L	0.0255	2.04%
Si 251.611	530122.6	13.51	mg/L	0.701	13.51	mg/L	0.701	5.18%
Li 670.784	69149.7	1.054	mg/L	0.0618	1.054	mg/L	0.0618	5.86%
Li 610.362	5967.8	0.8642	mg/L	0.16578	0.8642	mg/L	0.16578	19.18%
S 181.975	7586.9	31.17	mg/L	0.183	31.17	mg/L	0.183	0.59%

Sample Information Detail Report
Document Name: 10-17-12a

File Description
Default Sample Information File

Parameters Common to All Samples

Batch ID	10-17-12
Analyst Name	nina
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Wt.
1	11	CCV10ppm- Sn(3-22-1	
2	12	ICSA(3-22-12)	
3	13	ICSAB(3-22-12)	
4	14	50ppm(6-15-12)	
5	1	BLK	
6	1	BLK	
7	1	BLK	
8	1	BLK	
9	1	BLK	
10	1	BLK	
11	21	0.005ppm Ag(daily)	
12	22	0.005ppm CAM(daily)	
13	23	0.010ppm CAM(daily)	
14	24	0.020ppm CAM(daily)	
15	25	0.050ppm CAM(daily)	
16	26	0.5 ppm CAM(daily)	
17	1	CCB(daily)	
18	38	Method Blank	
19	39	LCS	
20	40	311995-007	
21	41	MS	
22	42	MSD	
23	43	311995-002	
24	44	311995-009	
25	45	311995-010	
26	46	311995-011	
27	47	312159-003	
28	48	312159-004	
29	49	312159-005	
30	50	312159-006	
31	72	Method Blank	
32	73	LCS	
33	74	311877-003	
34	75	MS	
35	76	MSD	
36	77	312080-003	
37	78	312080-004	
38	79	312080-005	
39	80	312080-006	
40	81	312080-008	
41	82	312080-009	
42	83	312080-010	
43	84	312080-013	
44	85	312080-015	
45	86	312094-003	
46	87	312094-004	
47	88	312094-005	
48	89	312094-006	
49	90	312094-007	
50	91	Method Blank	
51	92	LCS	
52	93	312205-002	
53	94	MS	
54	95	MSD	
55	96	312205-004	
56	97	312205-005	
57	98	312205-006	10/17/2012 2:27:29 PM
58	99	312205-007	
59	100	311995-002	

ALAB : 00051

63	104	MS
64	105	312080-008
65	106	312080-013
66	107	312080-014
67	108	312094-002

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
1			
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ALAB : 00052

CONFIDENTIAL

LMC-PET-00000237

Sample No	Sample Units *	Test	QC Batch
1	mg/L		
2	mg/L		
3	mg/L		
4	mg/L		
5	mg/L		
6	mg/L		
7	mg/L		
8	mg/L		
9	mg/L		
10	mg/L		
11	mg/L		
12	mg/L		
13	mg/L		
14	mg/L		
15	mg/L		
16	mg/L		
17	mg/L		
18	mg/L	6010 Dissolved Meta	QC1130580
19	mg/L	6010 Dissolved Meta	QC1130580
20	mg/L	6010 Dissolved Meta	
21	mg/L	6010 Dissolved Meta	QC1130580
22	mg/L	6010 Dissolved Meta	QC1130580
23	mg/L	6010 Dissolved Meta	
24	mg/L	6010 Dissolved Meta	
25	mg/L	6010 Dissolved Meta	
26	mg/L	6010 Dissolved Meta	
27	mg/L	6010 Dissolved Meta	
28	mg/L	6010 Dissolved Meta	
29	mg/L	6010 Dissolved Meta	
30	mg/L	6010 Dissolved Meta	
31	mg/L	6010 Alab	QC1130591
32	mg/L	6010 Alab	QC1130591
33	mg/L	6010 Alab	
34	mg/L	6010 Alab	QC1130591
35	mg/L	6010 Alab	QC1130591
36	mg/L	6010 Dissolved Meta	
37	mg/L	6010 Dissolved Meta	
38	mg/L	6010 Dissolved Meta	
39	mg/L	6010 Dissolved Meta	
40	mg/L	6010 Dissolved Meta	
41	mg/L	6010 Dissolved Meta	
42	mg/L	6010 Dissolved Meta	
43	mg/L	6010 Dissolved Meta	
44	mg/L	6010 Dissolved Meta	
45	mg/L	6010 Dissolved Meta	
46	mg/L	6010 Dissolved Meta	
47	mg/L	6010 Dissolved Meta	
48	mg/L	6010 Dissolved Meta	
49	mg/L	6010 Dissolved Meta	
50	mg/L	6010 Dissolved Meta	QC1130594
51	mg/L	6010 Dissolved Meta	QC1130594
52	mg/L	6010 Dissolved Meta	
53	mg/L	6010 Dissolved Meta	QC1130594
54	mg/L	6010 Dissolved Meta	QC1130594
55	mg/L	6010 Dissolved Meta	
56	mg/L	6010 Dissolved Meta	
57	mg/L	6010 Dissolved Meta	
58	mg/L	6010 Dissolved Meta	
59	mg/L	6010 Alab	
60	mg/L	200.7 Alab	QC1130599
61	mg/L	200.7 Alab	QC1130599
62	mg/L	200.7 Alab	
63	mg/L	200.7 Alab	QC1130599
64	mg/L	200.7 Alab	
65	mg/L	200.7 Alab	
66	mg/L	200.7 Alab	
67	mg/L	200.7 Alab	

ALAB : 00053

CONFIDENTIAL

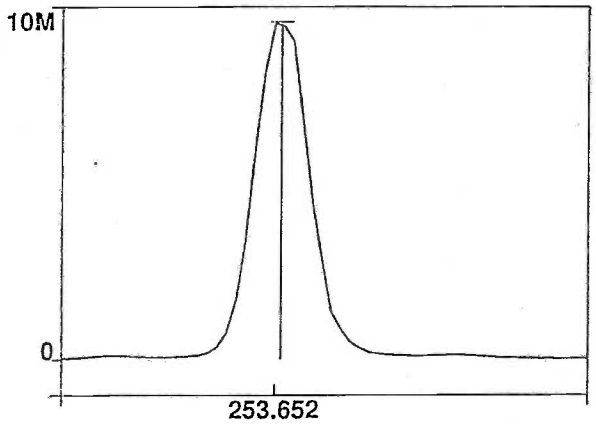
Spectra

Method: Hg_ReAlign
Result:

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



Intensity: 9577043.3 cps
Conc:

1

ALAB : 00054

10/17/2012 8:15:51 AM Hg ReAlign... Actual peak offset (nm): -0.006
Drift (nm): 0.000 Slit adjustment: 0

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	160.3
-1.6	15.0	149.1
-1.2	15.0	209.8
-0.8	15.0	97.1
-0.4	15.0	618921.6
0.0	15.0	901747.1
0.4	15.0	938700.4
0.8	15.0	873229.8
1.2	15.0	744922.2
1.6	15.0	594167.7
2.0	15.0	475173.3
0.4	10.0	4604.5
0.4	10.5	28601.6
0.4	11.0	61638.0
0.4	11.5	106566.7
0.4	12.0	173426.4
0.4	12.5	364407.1
0.4	13.0	474763.4
0.4	13.5	636718.1
0.4	14.0	773993.2
0.4	14.5	992801.2
0.4	15.0	993083.5
0.4	15.5	942589.0
0.4	16.0	849535.1
0.4	16.5	575639.6
0.4	17.0	423265.7
0.4	17.5	304642.7
0.4	18.0	209120.3
0.4	18.5	139639.3
0.4	19.0	56728.2
0.4	19.5	33164.0
0.4	20.0	16327.3
-0.4	15.0	992100.1
0.0	15.0	1019719.7
0.4	15.0	1004944.1
0.8	15.0	900803.1
1.2	15.0	777884.4
0.0	13.0	505808.6
0.0	13.5	630851.1
0.0	14.0	789997.9
0.0	14.5	1028928.4
0.0	15.0	1019252.9
0.0	15.5	1012406.6
0.0	16.0	870832.3
0.0	16.5	580504.7
0.0	17.0	431567.2

10/17/2012 8:18:25 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 1028928.4 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 1028928.4 for Axial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	358623.6
-1.6	15.0	514834.7
-1.2	15.0	671904.8
-0.8	15.0	839485.3
-0.4	15.0	976671.3
0.0	15.0	1007761.0
0.4	15.0	990446.0
0.8	15.0	883608.2
1.2	15.0	757614.2
1.6	15.0	632761.0
2.0	15.0	472101.9
0.0	10.0	2374.9
0.0	10.5	9933.7
0.0	11.0	27997.3
0.0	11.5	59741.0
0.0	12.0	104512.6

ALAB : 00055

0.0	13.5	485282.2
0.0	14.0	625537.9
0.0	14.5	930046.1
0.0	15.0	1004271.8
0.0	15.5	1031028.2
0.0	16.0	968308.9
0.0	16.5	720124.0
0.0	17.0	574059.1
0.0	17.5	428336.3
0.0	18.0	312674.3
0.0	18.5	209004.3
0.0	19.0	93697.1
0.0	19.5	58780.4
0.0	20.0	34964.0
-0.8	15.5	865725.7
-0.4	15.5	984043.9
0.0	15.5	1023644.5
0.4	15.5	997313.5
0.8	15.5	908512.8
0.0	13.5	499694.2
0.0	14.0	626409.7
0.0	14.5	936608.5
0.0	15.0	1030748.6
0.0	15.5	1051600.6
0.0	16.0	995810.9
0.0	16.5	729034.5
0.0	17.0	582674.2
0.0	17.5	423274.1

10/17/2012 8:20:19 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 1051600.6 for Axial viewing
Y viewing position set to 15.5 mm having Peak intensity 1051600.6 for Axial viewing

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Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	368802.2
-1.6	15.0	535573.2
-1.2	15.0	685042.5
-0.8	15.0	855615.5
-0.4	15.0	1005174.4
0.0	15.0	1049877.5
0.4	15.0	990614.3
0.8	15.0	911173.8
1.2	15.0	786076.8
1.6	15.0	627470.5
2.0	15.0	478863.8
0.0	10.0	4537.2
0.0	10.5	28733.6
0.0	11.0	61585.4
0.0	11.5	108605.8
0.0	12.0	170531.1
0.0	12.5	361889.6
0.0	13.0	493176.5
0.0	13.5	636984.8
0.0	14.0	799097.6
0.0	14.5	1023369.4
0.0	15.0	1056977.8
0.0	15.5	973559.3
0.0	16.0	869238.6
0.0	16.5	574307.1
0.0	17.0	434194.0
0.0	17.5	309803.2
0.0	18.0	217458.8
0.0	18.5	146652.2
0.0	19.0	58908.1
0.0	19.5	35375.4
0.0	20.0	17445.5
-0.8	15.0	856368.5
-0.4	15.0	1001864.2
0.0	15.0	1039405.9
0.4	15.0	1019266.0
0.8	15.0	909367.1
0.0	13.0	509236.6
0.0	13.5	642453.9
0.0	14.0	812658.1

ALAB : 00056

0.0	16.0	855235.5
0.0	16.5	565411.3
0.0	17.0	429223.9

10/17/2012 8:22:16 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 1027925.0 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 1027925.0 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	25.2
-6.5	15.0	27.7
-6.0	15.0	20.8
-5.5	15.0	21.0
-5.0	15.0	25.4
-4.5	15.0	32.4
-4.0	15.0	35.1
-3.5	15.0	41.6
-3.0	15.0	56.5
-2.5	15.0	125.0
-2.0	15.0	233.5
-1.5	15.0	292.1
-1.0	15.0	474.7
-0.5	15.0	591.5
0.0	15.0	729.5
0.5	15.0	647.2
1.0	15.0	487.5

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	748.8
-6.5	15.0	813.0
-6.0	15.0	893.0
-5.5	15.0	1023.4
-5.0	15.0	1302.8
-4.5	15.0	1794.9
-4.0	15.0	2480.6
-3.5	15.0	3563.6
-3.0	15.0	4443.8
-2.5	15.0	6702.5
-2.0	15.0	11723.3
-1.5	15.0	22710.5
-1.0	15.0	37396.1
-0.5	15.0	54710.6
0.0	15.0	60671.3
0.5	15.0	51962.3
1.0	15.0	34359.0
1.5	15.0	21189.7
2.0	15.0	11591.1
2.5	15.0	8657.8
3.0	15.0	7853.1
3.5	15.0	5742.0
4.0	15.0	3663.7
4.5	15.0	2127.6
5.0	15.0	1222.0
5.5	15.0	813.1
6.0	15.0	745.4
6.5	15.0	822.3
7.0	15.0	849.2

10/17/2012 8:30:28 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 60671.3 for Radial viewing

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Analysis Begun

Start Time: 10/17/2012 8:54:09 AM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901

Plasma On Time: 10/17/2012 7:49:05 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sid
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/17/2012 8:54:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	614.6	43.21	7.03%	[0.00]	mg/L
Al 308.215	3016.3	79.38	2.63%	[0.00]	mg/L
As 188.979	23.9	17.43	73.07%	[0.00]	mg/L
B 249.677	167.9	15.16	9.03%	[0.00]	mg/L
Ba 233.527	-72.0	3.97	5.51%	[0.00]	mg/L
Be 313.107	-3501.9	120.01	3.43%	[0.00]	mg/L
Bi 223.061	-44.0	6.08	13.82%	[0.00]	mg/L
Bi 190.171	10.2	2.17	21.36%	[0.00]	mg/L
Ca 315.887	38.4	2.27	5.92%	[0.00]	mg/L
Ca 317.933	140.6	3.85	2.74%	[0.00]	mg/L
Cd 214.440	20.8	0.96	4.64%	[0.00]	mg/L
Co 228.616	-35.9	3.30	9.19%	[0.00]	mg/L
Cr 267.716	-65.7	5.79	8.81%	[0.00]	mg/L
Cu 324.752	2240.7	82.03	3.66%	[0.00]	mg/L
Fe 238.204	106.6	1.38	1.30%	[0.00]	mg/L
Fe 273.955	-368.5	1.73	0.47%	[0.00]	mg/L
K 766.490	-473.5	80.16	16.93%	[0.00]	mg/L
Mg 279.077	-37.3	0.34	0.92%	[0.00]	mg/L
Mn 257.610	312.0	2.98	0.95%	[0.00]	mg/L
Mo 202.031	-3.0	0.64	20.93%	[0.00]	mg/L
Na 589.592	706.2	136.06	19.27%	[0.00]	mg/L
Na 330.237	29.0	9.82	33.87%	[0.00]	mg/L
Ni 231.604	-9.4	9.35	99.39%	[0.00]	mg/L
Pb 220.353	-85.3	7.32	8.58%	[0.00]	mg/L
Sb 206.836	-12.8	5.57	43.67%	[0.00]	mg/L
Se 196.026	19.2	92.48	482.76%	[0.00]	mg/L
Sn 189.927	-10.7	5.91	55.17%	[0.00]	mg/L
Sr 407.771	59.9	1.28	2.14%	[0.00]	mg/L
Sr 421.552	149.4	68.91	46.13%	[0.00]	mg/L
Ti 334.940	-1227.7	276.62	22.53%	[0.00]	mg/L
Tl 190.801	21.7	21.80	100.27%	[0.00]	mg/L
V 290.880	3597.4	48.58	1.35%	[0.00]	mg/L
W 207.912	19.0	0.40	2.11%	[0.00]	mg/L
Zn 206.200	3.6	2.23	62.33%	[0.00]	mg/L
P 213.617	-4.4	5.82	132.85%	[0.00]	mg/L
Si 251.611	476.6	101.18	21.23%	[0.00]	mg/L
Li 670.784	342.7	226.12	65.98%	[0.00]	mg/L
Li 610.362	-3034.9	306.71	10.11%	[0.00]	mg/L
S 181.975	6.7	0.44	6.53%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ICP STD1-0.05PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/17/2012 8:56:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD1-0.05PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	1277.2	290.87	22.77%	[0.05]	mg/L
As 188.979	298.9	5.88	1.97%	[0.05]	mg/L
B 249.677	4524.8	11.31	0.25%	[0.05]	mg/L
Ba 233.527	5800.4	200.91	3.46%	[0.05]	mg/L
Be 313.107	113036.3	4185.41	3.70%	[0.05]	mg/L
Cd 214.440	2411.9	10.23	0.42%	[0.05]	mg/L
Co 228.616	1403.0	3.23	0.23%	[0.05]	mg/L
Cr 267.716	2057.9	4.14	0.20%	[0.05]	mg/L
Cu 324.752	16152.7	816.33	5.05%	[0.05]	mg/L
Fe 238.204	2155.5	16.35	0.76%	[0.05]	mg/L
Fe 273.955	935.5	11.03	1.18%	[0.05]	mg/L
Mn 257.610	25431.5	796.36	3.13%	[0.05]	mg/L
Mo 202.031	230.7	4.00	1.73%	[0.05]	mg/L
Ni 231.604	1007.4	0.10	0.01%	[0.05]	mg/L
Pb 220.353	1070.7	15.22	1.42%	[0.05]	mg/L
Sb 206.836	64.2	4.79	7.46%	[0.05]	mg/L
Se 196.026	358.4	13.01	3.63%	[0.05]	mg/L
Ti 334.940	19946.1	880.41	4.41%	[0.05]	mg/L
Tl 190.801	284.4	18.40	6.47%	[0.05]	mg/L
V 290.880	8266.1	416.88	5.04%	[0.05]	mg/L
Zn 206.200	799.3	10.00	1.25%	[0.05]	mg/L

Sequence No.: 3
Sample ID: ICP STD2-1PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/17/2012 8:58:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD2-1PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	37538.5	196.05	0.52%	[1.00]	mg/L
As 188.979	5874.3	31.62	0.54%	[1.00]	mg/L
B 249.677	93150.5	3289.28	3.53%	[1.00]	mg/L
Ba 233.527	115651.8	2380.41	2.06%	[1.00]	mg/L
Be 313.107	2297449.5	35599.88	1.55%	[1.00]	mg/L
Cd 214.440	50266.8	1239.62	2.47%	[1.00]	mg/L
Co 228.616	28681.5	552.55	1.93%	[1.00]	mg/L
Cr 267.716	42076.9	1284.16	3.05%	[1.00]	mg/L
Cu 324.752	326226.1	5124.26	1.57%	[1.00]	mg/L
Fe 238.204	44107.8	896.64	2.03%	[1.00]	mg/L
Fe 273.955	18719.7	398.58	2.13%	[1.00]	mg/L
Mn 257.610	496397.4	9455.68	1.90%	[1.00]	mg/L
Mo 202.031	4794.5	46.79	0.98%	[1.00]	mg/L
Ni 231.604	20872.2	323.87	1.55%	[1.00]	mg/L
Pb 220.353	22324.8	476.52	2.13%	[1.00]	mg/L
Sb 206.836	1114.5	4.75	0.43%	[1.00]	mg/L
Se 196.026	8266.7	121.49	1.47%	[1.00]	mg/L
Sr 407.771	422913.3	27154.22	6.42%	[1.00]	mg/L
Sr 421.552	236845.3	15732.94	6.64%	[1.00]	mg/L
Ti 334.940	394021.1	4744.00	1.20%	[1.00]	mg/L
Tl 190.801	6390.0	9.31	0.15%	[1.00]	mg/L
V 290.880	164880.2	3118.49	1.89%	[1.00]	mg/L
Zn 206.200	16033.1	411.57	2.57%	[1.00]	mg/L

ALAB : 00059

Sequence No.: 4
Sample ID: ICP STD3-20PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/17/2012 9:01:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD3-20PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	692853.0	8533.46	1.23%	[20.00]	mg/L
As 188.979	112345.6	406.92	0.36%	[20.00]	mg/L
B 249.677	1789964.4	80065.04	4.47%	[20.00]	mg/L
Ba 233.527	2063411.5	81299.54	3.94%	[20.00]	mg/L
Be 313.107	Saturated2				
Bi 223.061	22395.4	7.46	0.03%	[10]	mg/L
Bi 190.171	8243.1	22.86	0.28%	[10]	mg/L
Ca 315.887	22411.6	366.31	1.63%	[10.00]	mg/L
Ca 317.933	26268.3	356.16	1.36%	[10.00]	mg/L
Cd 214.440	871581.7	42700.33	4.90%	[20.00]	mg/L
Co 228.616	523688.4	19062.46	3.64%	[20.00]	mg/L
Cr 267.716	769861.9	32114.49	4.17%	[20.00]	mg/L
Cu 324.752	6116031.3	253597.15	4.15%	[20.00]	mg/L
Fe 238.204	789483.2	37038.53	4.69%	[20.00]	mg/L
Fe 273.955	343734.0	13211.47	3.84%	[20.00]	mg/L
K 766.490	28824.7	22.42	0.08%	[10.00]	mg/L
Mg 279.077	2466.8	48.63	1.97%	[10.00]	mg/L
Mn 257.610	8766007.8	108767.34	1.24%	[20.00]	mg/L
Mo 202.031	92090.6	3251.85	3.53%	[20.00]	mg/L
Na 589.592	69742.9	943.22	1.35%	[10.00]	mg/L
Ni 231.604	378156.4	15148.36	4.01%	[20.00]	mg/L
Pb 220.353	408171.5	17079.20	4.18%	[20.00]	mg/L
Se 196.026	157342.4	778.83	0.49%	[20.00]	mg/L
Sn 189.927	30746.6	181.46	0.59%	[10.00]	mg/L
Ti 334.940	7600225.0	155551.52	2.05%	[20.00]	mg/L
Tl 190.801	110824.9	439.65	0.40%	[20.00]	mg/L
V 290.880	3164300.7	137797.18	4.35%	[20.00]	mg/L
W 207.912	12518.4	74.28	0.59%	[5]	mg/L
Zn 206.200	297987.9	13700.13	4.60%	[20.00]	mg/L
Li 670.784	138060.0	1238.30	0.90%	[2.0]	mg/L
Li 610.362	14061.5	382.82	2.72%	[2.0]	mg/L
S 181.975	2441.2	24.64	1.01%	[10.00]	mg/L

Sequence No.: 5
Sample ID: ICP STD4-2PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/17/2012 9:03:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD4-2PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	261303.6	602.03	0.23%	[2.00]	mg/L

ALAB : 00061

Sequence No.: 6
Sample ID: ICP STD5-100PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 10/17/2012 9:05:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD5-100PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ca 315.887	217855.3	1157.66	0.53%	[100.00]	mg/L
Ca 317.933	254890.3	2037.44	0.80%	[100.00]	mg/L
K 766.490	281378.0	2548.71	0.91%	[100.00]	mg/L
Mg 279.077	23267.6	27.16	0.12%	[100.00]	mg/L
Na 589.592	645890.4	7975.40	1.23%	[100.00]	mg/L
Na 330.237	776.8	8.61	1.11%	[100.00]	mg/L

Sequence No.: 7
Sample ID: ICP STD6-10PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 10/17/2012 9:07:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD6-10PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
P 213.617	13372.2	152.45	1.14%	[10.00]	mg/L
Si 251.611	405090.8	9598.75	2.37%	[10.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	130700	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	34650	0.00000	0.999991	
As 188.979	3	Lin Thru 0	0.0	5618	0.00000	0.999997	
B 249.677	3	Lin Thru 0	0.0	89510	0.00000	0.999998	
Ba 233.527	3	Lin Thru 0	0.0	103200	0.00000	0.999982	
Be 313.107	2	Lin Thru 0	0.0	2297000	0.00000	1.000000	
Bi 223.061	1	Lin Thru 0	0.0	2240	0.00000	1.000000	
Bi 190.171	1	Lin Thru 0	0.0	824.3	0.00000	1.000000	
Ca 315.887	2	Lin Thru 0	0.0	2179	0.00000	0.999996	
Ca 317.933	2	Lin Thru 0	0.0	2550	0.00000	0.999995	
Cd 214.440	3	Lin Thru 0	0.0	43600	0.00000	0.999971	
Co 228.616	3	Lin Thru 0	0.0	26190	0.00000	0.999989	
Cr 267.716	3	Lin Thru 0	0.0	38500	0.00000	0.999989	
Cu 324.752	3	Lin Thru 0	0.0	305900	0.00000	0.999994	
Fe 238.204	3	Lin Thru 0	0.0	39490	0.00000	0.999983	
Fe 273.955	3	Lin Thru 0	0.0	17190	0.00000	0.999990	
K 766.490	2	Lin Thru 0	0.0	2814	0.00000	0.999997	
Mg 279.077	2	Lin Thru 0	0.0	232.8	0.00000	0.999982	
Mn 257.610	3	Lin Thru 0	0.0	438400	0.00000	0.999978	
Mo 202.031	3	Lin Thru 0	0.0	4605	0.00000	0.999998	
Na 589.592	2	Lin Thru 0	0.0	6464	0.00000	0.999969	
Na 330.237	1	Lin Thru 0	0.0	7.768	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	18910	0.00000	0.999987	
Pb 220.353	3	Lin Thru 0	0.0	20410	0.00000	0.999989	
Sb 206.836	2	Lin Thru 0	0.0	1115	0.00000	0.999971	
Se 196.026	3	Lin Thru 0	0.0	7868	0.00000	0.999997	
Sn 189.927	1	Lin Thru 0	0.0	3075	0.00000	1.000000	
Sr 407.771	1	Lin Thru 0	0.0	422900	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	236800	0.00000	1.000000	
Ti 334.940	3	Lin Thru 0	0.0	380000	0.00000	0.999998	
Tl 190.801	3	Lin Thru 0	0.0	5543	0.00000	0.999971	
V 290.880	3	Lin Thru 0	0.0	158200	0.00000	0.999998	
W 207.912	1	Lin Thru 0	0.0	2504	0.00000	1.000000	
Zn 206.200	3	Lin Thru 0	0.0	14900	0.00000	0.999993	
P 213.617	1	Lin Thru 0	0.0	1337	0.00000	1.000000	
Si 251.611	1	Lin Thru 0	0.0	40510	0.00000	1.000000	
Li 670.784	1	Lin Thru 0	0.0	69030	0.00000	1.000000	
Li 610.362	1	Lin Thru 0	0.0	7031	0.00000	1.000000	
S 181.975	1	Lin Thru 0	0.0	244.1	0.00000	1.000000	

ALAB : 00062

Sequence No.: 8
Sample ID: ICP_ICV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 10/17/2012 9:09:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_ICV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	67592.1	0.5173	mg/L	0.00766	0.5173	mg/L	0.00766	1.48%
QC value within limits for Ag 328.068 Recovery = 103.47%								
Al 308.215	35904.8	1.036	mg/L	0.0134	1.036	mg/L	0.0134	1.29%
QC value within limits for Al 308.215 Recovery = 103.62%								
As 188.979	5617.7	1.0000	mg/L	0.01491	1.0000	mg/L	0.01491	1.49%
QC value within limits for As 188.979 Recovery = 100.00%								
B 249.677	91772.5	1.025	mg/L	0.0185	1.025	mg/L	0.0185	1.81%
QC value within limits for B 249.677 Recovery = 102.53%								
Ba 233.527	111962.8	1.085	mg/L	0.0190	1.085	mg/L	0.0190	1.75%
QC value within limits for Ba 233.527 Recovery = 108.49%								
Be 313.107	2306657.5	1.004	mg/L	0.0573	1.004	mg/L	0.0573	5.70%
QC value within limits for Be 313.107 Recovery = 100.40%								
Bi 223.061	-66.9	-0.0299	mg/L	0.00209	-0.0299	mg/L	0.00209	7.01%
Bi 190.171	10.9	0.0132	mg/L	0.00541	0.0132	mg/L	0.00541	41.07%
Ca 315.887	2344.2	1.076	mg/L	0.0012	1.076	mg/L	0.0012	0.11%
Ca 317.933	2755.3	1.081	mg/L	0.0010	1.081	mg/L	0.0010	0.10%
Cd 214.440	44839.3	1.029	mg/L	0.0178	1.029	mg/L	0.0178	1.73%
QC value within limits for Cd 214.440 Recovery = 102.85%								
Co 228.616	26937.1	1.028	mg/L	0.0182	1.028	mg/L	0.0182	1.77%
QC value within limits for Co 228.616 Recovery = 102.85%								
Cr 267.716	41632.0	1.081	mg/L	0.0177	1.081	mg/L	0.0177	1.64%
QC value within limits for Cr 267.716 Recovery = 108.13%								
Cu 324.752	304580.2	0.9958	mg/L	0.04320	0.9958	mg/L	0.04320	4.34%
QC value within limits for Cu 324.752 Recovery = 99.58%								
Fe 238.204	42462.6	1.075	mg/L	0.0181	1.075	mg/L	0.0181	1.68%
QC value within limits for Fe 238.204 Recovery = 107.54%								
Fe 273.955	17980.5	1.046	mg/L	0.0152	1.046	mg/L	0.0152	1.45%
QC value within limits for Fe 273.955 Recovery = 104.60%								
K 766.490	28470.5	10.12	mg/L	0.397	10.12	mg/L	0.397	3.92%
Mg 279.077	258.9	1.112	mg/L	0.0214	1.112	mg/L	0.0214	1.93%
Mn 257.610	452754.1	1.033	mg/L	0.0576	1.033	mg/L	0.0576	5.58%
QC value within limits for Mn 257.610 Recovery = 103.26%								
Mo 202.031	4666.8	1.013	mg/L	0.0161	1.013	mg/L	0.0161	1.59%
QC value within limits for Mo 202.031 Recovery = 101.34%								
Na 589.592	7078.0	1.095	mg/L	0.0842	1.095	mg/L	0.0842	7.69%
Na 330.237	-16.9	-2.173	mg/L	0.5043	-2.173	mg/L	0.5043	23.21%
Ni 231.604	19911.7	1.053	mg/L	0.0144	1.053	mg/L	0.0144	1.37%
QC value within limits for Ni 231.604 Recovery = 105.28%								
Pb 220.353	20882.8	1.023	mg/L	0.0309	1.023	mg/L	0.0309	3.03%
QC value within limits for Pb 220.353 Recovery = 102.30%								
Sb 206.836	1103.6	0.9898	mg/L	0.00042	0.9898	mg/L	0.00042	0.04%
QC value within limits for Sb 206.836 Recovery = 98.98%								
Se 196.026	8086.8	1.028	mg/L	0.0031	1.028	mg/L	0.0031	0.30%
QC value within limits for Se 196.026 Recovery = 102.78%								
Sn 189.927	-1.5	-0.0005	mg/L	0.00130	-0.0005	mg/L	0.00130	262.54%
Sr 407.771	413563.7	0.9779	mg/L	0.05327	0.9779	mg/L	0.05327	5.45%
QC value within limits for Sr 407.771 Recovery = 97.79%								
Sr 421.552	232850.0	0.9831	mg/L	0.04635	0.9831	mg/L	0.04635	4.71%
QC value within limits for Sr 421.552 Recovery = 98.31%								
Ti 334.940	395941.0	1.042	mg/L	0.0535	1.042	mg/L	0.0535	5.14%
QC value within limits for Ti 334.940 Recovery = 104.18%								
Tl 190.801	5844.7	1.054	mg/L	0.0110	1.054	mg/L	0.0110	1.04%
QC value within limits for Tl 190.801 Recovery = 105.44%								
V 290.880	162269.6	1.025	mg/L	0.0594	1.025	mg/L	0.0594	5.79%
QC value within limits for V 290.880 Recovery = 102.54%								
W 207.912	44.1	0.0176	mg/L	0.00065	0.0176	mg/L	0.00065	3.70%
Y 371.029	1447.0						105.15	7.27%
Zn 206.200	15230.7	1.022	mg/L	0.0193	1.022	mg/L	0.0193	1.88%
QC value within limits for Zn 206.200 Recovery = 102.20%								
P 213.617	-1791.4	-1.340	mg/L	0.0282	-1.340	mg/L	0.0282	2.10%
Si 251.611	40356.4	0.9962	mg/L	0.01025	0.9962	mg/L	0.01025	1.03%
QC value within limits for Si 251.611 Recovery = 99.62%								
Li 670.784	65949.8	0.9554	mg/L	0.05723	0.9554	mg/L	0.05723	5.99%
Li 610.362	7192.6	1.023	mg/L	0.1809	1.023	mg/L	0.1809	17.69%

Sequence No.: 9
Sample ID: ICP_ICB(Daily)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/17/2012 9:18:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_ICB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	10.0	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	277.04%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215	-89.7	-0.0026	mg/L	0.00007	-0.0026	mg/L	0.00007	2.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	-1.9	-0.0003	mg/L	0.00116	-0.0003	mg/L	0.00116	337.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677	3640.5	0.0407	mg/L	0.00116	0.0407	mg/L	0.00116	2.84%
QC value greater than the upper limit for B 249.677 Recovery = Not calculated								
Ba 233.527	68.3	0.0007	mg/L	0.00005	0.0007	mg/L	0.00005	7.99%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	1108.2	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	19.25%
QC value within limits for Be 313.107 Recovery = Not calculated								
Bi 223.061	-9.1	-0.0041	mg/L	0.00083	-0.0041	mg/L	0.00083	20.26%
QC value within limits for Bi 223.061 Recovery = Not calculated								
Bi 190.171	6.9	0.0083	mg/L	0.00090	0.0083	mg/L	0.00090	10.85%
QC value within limits for Bi 190.171 Recovery = Not calculated								
Ca 315.887	-0.5	-0.0002	mg/L	0.00330	-0.0002	mg/L	0.00330	>999.9%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933	5.1	0.0020	mg/L	0.00147	0.0020	mg/L	0.00147	74.23%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440	41.0	0.0009	mg/L	0.00007	0.0009	mg/L	0.00007	7.78%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	9.7	0.0004	mg/L	0.00012	0.0004	mg/L	0.00012	32.67%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	13.5	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	63.32%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752	161.8	0.0005	mg/L	0.00064	0.0005	mg/L	0.00064	120.45%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204	59.1	0.0015	mg/L	0.00084	0.0015	mg/L	0.00084	56.45%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Fe 273.955	12.2	0.0007	mg/L	0.00126	0.0007	mg/L	0.00126	176.54%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-235.3	-0.0836	mg/L	0.05194	-0.0836	mg/L	0.05194	62.14%
QC value less than the lower limit for K 766.490 Recovery = Not calculated								
Mg 279.077	3.6	0.0156	mg/L	0.01982	0.0156	mg/L	0.01982	127.21%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610	215.0	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	5.75%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	15.6	0.0034	mg/L	0.00051	0.0034	mg/L	0.00051	14.93%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-135.0	-0.0209	mg/L	0.01311	-0.0209	mg/L	0.01311	62.80%
QC value less than the lower limit for Na 589.592 Recovery = Not calculated								
Na 330.237	-1.3	-0.1653	mg/L	0.22270	-0.1653	mg/L	0.22270	134.71%
QC value less than the lower limit for Na 330.237 Recovery = Not calculated								
Ni 231.604	8.6	0.0005	mg/L	0.00016	0.0005	mg/L	0.00016	34.66%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-0.4	0.0000	mg/L	0.00077	0.0000	mg/L	0.00077	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	23.2	0.0208	mg/L	0.00091	0.0208	mg/L	0.00091	4.38%
QC value greater than the upper limit for Sb 206.836 Recovery = Not calculated								
Se 196.026	73.1	0.0093	mg/L	0.01087	0.0093	mg/L	0.01087	117.02%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-0.1	0.0000	mg/L	0.00087	0.0000	mg/L	0.00087	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771	1028.8	0.0024	mg/L	0.00178	0.0024	mg/L	0.00178	73.22%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	603.3	0.0025	mg/L	0.00199	0.0025	mg/L	0.00199	78.08%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 334.940	467.7	0.0012	mg/L	0.00021	0.0012	mg/L	0.00021	17.38%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801	-3.9	-0.0007	mg/L	0.00374	-0.0007	mg/L	0.00374	527.00%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880	121.9	0.0008	mg/L	0.00040	0.0008	mg/L	0.00040	52.53%
QC value within limits for V 290.880 Recovery = Not calculated								

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Zn 206.200	10.8	0.0007 mg/L	0.00013	0.0007 mg/L	0.00013	18.01%
QC value within limits for Zn 206.200 Recovery = Not calculated						
P 213.617	3.6	0.0027 mg/L	0.01009	0.0027 mg/L	0.01009	378.23%
Si 251.611	-10.4	-0.0003 mg/L	0.00230	-0.0003 mg/L	0.00230	898.09%
Li 670.784	-219.5	-0.0032 mg/L	0.00526	-0.0032 mg/L	0.00526	165.51%
Li 610.362	84.1	0.0120 mg/L	0.01221	0.0120 mg/L	0.01221	102.09%
S 181.975	-4.3	-0.0175 mg/L	0.00556	-0.0175 mg/L	0.00556	31.72%

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: ICP_CCVGM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/17/2012 9:21:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-22.8	-0.0002	mg/L	0.00058	-0.0002	mg/L	0.00058	329.75%
Al 308.215	-607.5	-0.0175	mg/L	0.00027	-0.0175	mg/L	0.00027	1.56%
As 188.979	18.6	0.0033	mg/L	0.00008	0.0033	mg/L	0.00008	2.46%
B 249.677	3420.1	0.0382	mg/L	0.00026	0.0382	mg/L	0.00026	0.69%
Ba 233.527	67.1	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	3.05%
Be 313.107	76.3	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	21.10%
Bi 223.061	6.4	0.0028	mg/L	0.00451	0.0028	mg/L	0.00451	158.33%
Bi 190.171	20.8	0.0252	mg/L	0.00005	0.0252	mg/L	0.00005	0.19%
Ca 315.887	210994.4	96.82	mg/L	0.080	96.82	mg/L	0.080	0.08%
QC value within limits for Ca 315.887 Recovery = 96.82%								
Ca 317.933	249241.3	97.75	mg/L	0.138	97.75	mg/L	0.138	0.14%
QC value within limits for Ca 317.933 Recovery = 97.75%								
Cd 214.440	-14.3	-0.0003	mg/L	0.00003	-0.0003	mg/L	0.00003	7.92%
Co 228.616	5.2	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	56.78%
Cr 267.716	79.0	0.0021	mg/L	0.00023	0.0021	mg/L	0.00023	11.18%
Cu 324.752	831.3	0.0027	mg/L	0.00025	0.0027	mg/L	0.00025	9.06%
Fe 238.204	175.8	0.0045	mg/L	0.00016	0.0045	mg/L	0.00016	3.63%
Fe 273.955	-42.0	-0.0024	mg/L	0.00001	-0.0024	mg/L	0.00001	0.55%
K 766.490	275858.3	98.01	mg/L	0.460	98.01	mg/L	0.460	0.47%
QC value within limits for K 766.490 Recovery = 98.01%								
Mg 279.077	23251.0	99.87	mg/L	0.598	99.87	mg/L	0.598	0.60%
QC value within limits for Mg 279.077 Recovery = 99.87%								
Mn 257.610	1453.7	0.0033	mg/L	0.00002	0.0033	mg/L	0.00002	0.55%
Mo 202.031	30.1	0.0065	mg/L	0.00037	0.0065	mg/L	0.00037	5.72%
Na 589.592	633485.8	98.00	mg/L	0.720	98.00	mg/L	0.720	0.73%
QC value within limits for Na 589.592 Recovery = 98.00%								
Na 330.237	781.5	100.6	mg/L	0.03	100.6	mg/L	0.03	0.03%
QC value within limits for Na 330.237 Recovery = 100.61%								
Ni 231.604	10.3	0.0005	mg/L	0.00044	0.0005	mg/L	0.00044	79.93%
Pb 220.353	-6.8	-0.0003	mg/L	0.00404	-0.0003	mg/L	0.00404	>999.9%
Sb 206.836	-5.9	-0.0053	mg/L	0.00084	-0.0053	mg/L	0.00084	15.72%
Se 196.026	-63.2	-0.0080	mg/L	0.02935	-0.0080	mg/L	0.02935	365.18%
Sn 189.927	-92.1	-0.0300	mg/L	0.00344	-0.0300	mg/L	0.00344	11.49%
Sr 407.771	231.9	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.35%
Sr 421.552	92.5	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	6.14%
Ti 334.940	3532.2	0.0093	mg/L	0.00044	0.0093	mg/L	0.00044	4.73%
Tl 190.801	-62.5	-0.0113	mg/L	0.00503	-0.0113	mg/L	0.00503	44.59%
V 290.880	-309.9	-0.0020	mg/L	0.00036	-0.0020	mg/L	0.00036	18.40%
W 207.912	25.7	0.0103	mg/L	0.00101	0.0103	mg/L	0.00101	9.81%
Y 371.029	1530.0						65.33	4.27%
Zn 206.200	6.8	0.0005	mg/L	0.00024	0.0005	mg/L	0.00024	51.36%
P 213.617	-8.8	-0.0066	mg/L	0.00602	-0.0066	mg/L	0.00602	91.44%
Si 251.611	455.7	0.0112	mg/L	0.00013	0.0112	mg/L	0.00013	1.18%
Li 670.784	-1132.3	-0.0164	mg/L	0.00008	-0.0164	mg/L	0.00008	0.50%
Li 610.362	-2698.6	-0.3838	mg/L	0.11840	-0.3838	mg/L	0.11840	30.85%
S 181.975	4.0	0.0162	mg/L	0.01895	0.0162	mg/L	0.01895	116.71%

All analyte(s) passed QC.

ALAB:00066

Sequence No.: 11
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/17/2012 9:24:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	65.0	0.0005	mg/L	0.00027	0.0005	mg/L	0.00027	53.44%
Al 308.215	-131.6	-0.0038	mg/L	0.00022	-0.0038	mg/L	0.00022	5.66%
As 188.979	-15.1	-0.0027	mg/L	0.00107	-0.0027	mg/L	0.00107	39.89%
B 249.677	2744.6	0.0307	mg/L	0.00018	0.0307	mg/L	0.00018	0.60%
Ba 233.527	11.8	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	40.18%
Be 313.107	-3.3	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	>999.9%
Bi 223.061	-3.8	-0.0017	mg/L	0.00315	-0.0017	mg/L	0.00315	183.46%
Bi 190.171	5.3	0.0065	mg/L	0.00297	0.0065	mg/L	0.00297	45.95%
Ca 315.887	81.0	0.0372	mg/L	0.00745	0.0372	mg/L	0.00745	20.05%
Ca 317.933	101.5	0.0398	mg/L	0.00412	0.0398	mg/L	0.00412	10.35%
Cd 214.440	19.0	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	4.84%
Co 228.616	-2.1	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	52.79%
Cr 267.716	5.5	0.0001	mg/L	0.00026	0.0001	mg/L	0.00026	184.01%
Cu 324.752	44.4	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	52.25%
Fe 238.204	-6.8	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	37.12%
Fe 273.955	-8.0	-0.0005	mg/L	0.00021	-0.0005	mg/L	0.00021	44.83%
K 766.490	163.5	0.0581	mg/L	0.00226	0.0581	mg/L	0.00226	3.89%
Mg 279.077	15.3	0.0655	mg/L	0.00578	0.0655	mg/L	0.00578	8.81%
Mn 257.610	17.4	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	16.90%
Mo 202.031	4.1	0.0009	mg/L	0.00032	0.0009	mg/L	0.00032	35.96%
QC value less than the lower limit for Mo 202.031				Recovery = 0.09%				
Na 589.592	379.6	0.0587	mg/L	0.01016	0.0587	mg/L	0.01016	17.30%
Na 330.237	6.4	0.8254	mg/L	0.52452	0.8254	mg/L	0.52452	63.55%
Ni 231.604	7.7	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	33.55%
Pb 220.353	-21.1	-0.0010	mg/L	0.00290	-0.0010	mg/L	0.00290	279.63%
Sb 206.836	7.2	0.0064	mg/L	0.00288	0.0064	mg/L	0.00288	44.85%
QC value less than the lower limit for Sb 206.836				Recovery = 0.64%				
Se 196.026	124.0	0.0158	mg/L	0.01744	0.0158	mg/L	0.01744	110.68%
Sn 189.927	4.4	0.0014	mg/L	0.00074	0.0014	mg/L	0.00074	51.37%
Sr 407.771	0.0	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	>999.9%
Sr 421.552	9.0	0.0000	mg/L	0.00038	0.0000	mg/L	0.00038	990.61%
Ti 334.940	134.3	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	22.57%
Tl 190.801	-17.4	-0.0031	mg/L	0.00102	-0.0031	mg/L	0.00102	32.43%
V 290.880	149.6	0.0009	mg/L	0.00013	0.0009	mg/L	0.00013	13.30%
W 207.912	2.9	0.0012	mg/L	0.00012	0.0012	mg/L	0.00012	10.60%
Y 371.029	1577.4						101.55	6.44%
Zn 206.200	3.8	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	28.42%
P 213.617	-3.6	-0.0027	mg/L	0.00083	-0.0027	mg/L	0.00083	30.76%
Si 251.611	-97.5	-0.0024	mg/L	0.00044	-0.0024	mg/L	0.00044	18.17%
Li 670.784	-619.5	-0.0090	mg/L	0.00474	-0.0090	mg/L	0.00474	52.77%
Li 610.362	-14.6	-0.0021	mg/L	0.05364	-0.0021	mg/L	0.05364	>999.9%
S 181.975	-8.6	-0.0353	mg/L	0.02734	-0.0353	mg/L	0.02734	77.39%

QC Failed. Continue with analysis.

ALAB: 00067

Sequence No.: 13
Sample ID: ICSA(3-22-12)
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 10/17/2012 9:35:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA(3-22-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	356.7	0.0027	mg/L	0.00071	0.0027	mg/L	0.00071	25.99%
Al 308.215	11923870.5	344.1	mg/L	9.25	344.1	mg/L	9.25	2.69%
As 188.979	-89.8	-0.0160	mg/L	0.01190	-0.0160	mg/L	0.01190	74.49%
B 249.677	-1663.1	-0.0186	mg/L	0.00259	-0.0186	mg/L	0.00259	13.95%
Ba 233.527	659.2	0.0064	mg/L	0.00063	0.0064	mg/L	0.00063	9.84%
Be 313.107	-640.2	-0.0003	mg/L	0.00007	-0.0003	mg/L	0.00007	26.38%
Bi 223.061	98.0	0.0438	mg/L	0.00294	0.0438	mg/L	0.00294	6.71%
Bi 190.171	87.4	0.1060	mg/L	0.00070	0.1060	mg/L	0.00070	0.66%
Ca 315.887	897645.4	411.9	mg/L	12.85	411.9	mg/L	12.85	3.12%
Ca 317.933	1053240.1	413.1	mg/L	12.60	413.1	mg/L	12.60	3.05%
Cd 214.440	180.3	0.0041	mg/L	0.00028	0.0041	mg/L	0.00028	6.79%
Co 228.616	36.6	0.0014	mg/L	0.00004	0.0014	mg/L	0.00004	2.81%
Cr 267.716	242.7	0.0063	mg/L	0.00039	0.0063	mg/L	0.00039	6.11%
Cu 324.752	-2334.9	-0.0076	mg/L	0.00046	-0.0076	mg/L	0.00046	5.99%
Fe 238.204	4976541.2	126.0	mg/L	1.95	126.0	mg/L	1.95	1.55%
Fe 273.955	2394387.4	139.3	mg/L	0.75	139.3	mg/L	0.75	0.54%
K 766.490	790.8	0.2810	mg/L	0.06462	0.2810	mg/L	0.06462	23.00%
Mg 279.077	100308.5	430.9	mg/L	15.77	430.9	mg/L	15.77	3.66%
Mn 257.610	654.4	0.0015	mg/L	0.00036	0.0015	mg/L	0.00036	24.13%
Mo 202.031	44.7	0.0097	mg/L	0.00186	0.0097	mg/L	0.00186	19.19%
Na 589.592	1047.7	0.1621	mg/L	0.00486	0.1621	mg/L	0.00486	3.00%
Na 330.237	18.8	2.419	mg/L	0.2233	2.419	mg/L	0.2233	9.23%
Ni 231.604	19.4	0.0010	mg/L	0.00049	0.0010	mg/L	0.00049	47.55%
Pb 220.353	-35.5	-0.0017	mg/L	0.00368	-0.0017	mg/L	0.00368	211.77%
Sb 206.836	-36.2	-0.0325	mg/L	0.00785	-0.0325	mg/L	0.00785	24.14%
Se 196.026	-642.9	-0.0817	mg/L	0.04929	-0.0817	mg/L	0.04929	60.32%
Sn 189.927	-58.1	-0.0189	mg/L	0.00815	-0.0189	mg/L	0.00815	43.07%
Sr 407.771	3494.8	0.0083	mg/L	0.00001	0.0083	mg/L	0.00001	0.10%
Sr 421.552	1958.9	0.0083	mg/L	0.00001	0.0083	mg/L	0.00001	0.14%
Ti 334.940	4029.5	0.0106	mg/L	0.00020	0.0106	mg/L	0.00020	1.90%
Tl 190.801	-119.2	-0.0215	mg/L	0.00133	-0.0215	mg/L	0.00133	6.21%
V 290.880	328.4	-0.0075	mg/L	0.00133	-0.0075	mg/L	0.00133	17.66%
W 207.912	169.8	0.0678	mg/L	0.00203	0.0678	mg/L	0.00203	2.99%
Y 371.029	1382.3						6.76	0.49%
Zn 206.200	69.2	0.0046	mg/L	0.00042	0.0046	mg/L	0.00042	9.00%
P 213.617	-93.2	-0.0697	mg/L	0.00930	-0.0697	mg/L	0.00930	13.34%
Si 251.611	694.8	0.0172	mg/L	0.01161	0.0172	mg/L	0.01161	67.70%
Li 670.784	-233.3	-0.0034	mg/L	0.01119	-0.0034	mg/L	0.01119	331.08%
Li 610.362	-7930.2	-1.128	mg/L	0.0063	-1.128	mg/L	0.0063	0.56%
S 181.975	-59.4	-0.2434	mg/L	0.02289	-0.2434	mg/L	0.02289	9.41%

ALAB : 00068

Sequence No.: 14
Sample ID: ICSAB(3-22-12)
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 10/17/2012 9:37:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB(3-22-12)

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	142176.5	1.088	mg/L	0.0092	1.088	mg/L	0.0092	0.85%
Al 308.215	12523670.3	361.4	mg/L	14.88	361.4	mg/L	14.88	4.12%
As 188.979	-167.3	-0.0298	mg/L	0.00033	-0.0298	mg/L	0.00033	1.10%
B 249.677	-216.9	-0.0024	mg/L	0.00285	-0.0024	mg/L	0.00285	117.83%
Ba 233.527	53486.1	0.5183	mg/L	0.01261	0.5183	mg/L	0.01261	2.43%
Be 313.107	1138424.4	0.4955	mg/L	0.00721	0.4955	mg/L	0.00721	1.46%
Bi 223.061	21.5	0.0096	mg/L	0.00922	0.0096	mg/L	0.00922	95.92%
Bi 190.171	59.9	0.0726	mg/L	0.00708	0.0726	mg/L	0.00708	9.74%
Ca 315.887	945789.4	434.0	mg/L	16.59	434.0	mg/L	16.59	3.82%
Ca 317.933	1104407.8	433.2	mg/L	16.91	433.2	mg/L	16.91	3.90%
Cd 214.440	41046.8	0.9415	mg/L	0.01490	0.9415	mg/L	0.01490	1.58%
Co 228.616	11496.9	0.4390	mg/L	0.00168	0.4390	mg/L	0.00168	0.38%
Cr 267.716	19162.6	0.4977	mg/L	0.01616	0.4977	mg/L	0.01616	3.25%
Cu 324.752	152732.1	0.4994	mg/L	0.00646	0.4994	mg/L	0.00646	1.29%
Fe 238.204	5161788.4	130.7	mg/L	2.31	130.7	mg/L	2.31	1.76%
Fe 273.955	2490452.9	144.9	mg/L	3.22	144.9	mg/L	3.22	2.22%
K 766.490	922.9	0.3279	mg/L	0.26416	0.3279	mg/L	0.26416	80.56%
Mg 279.077	105378.5	452.6	mg/L	17.40	452.6	mg/L	17.40	3.84%
Mn 257.610	208237.3	0.4749	mg/L	0.00878	0.4749	mg/L	0.00878	1.85%
Mo 202.031	37.9	0.0082	mg/L	0.00224	0.0082	mg/L	0.00224	27.27%
Na 589.592	1254.6	0.1941	mg/L	0.00345	0.1941	mg/L	0.00345	1.78%
Na 330.237	10.3	1.325	mg/L	0.3114	1.325	mg/L	0.3114	23.50%
Ni 231.604	16478.2	0.8713	mg/L	0.00412	0.8713	mg/L	0.00412	0.47%
Pb 220.353	17792.8	0.8716	mg/L	0.00768	0.8716	mg/L	0.00768	0.88%
Sb 206.836	-36.4	-0.0327	mg/L	0.00841	-0.0327	mg/L	0.00841	25.74%
Se 196.026	-448.2	-0.0570	mg/L	0.02446	-0.0570	mg/L	0.02446	42.95%
Sn 189.927	-142.9	-0.0465	mg/L	0.00282	-0.0465	mg/L	0.00282	6.06%
Sr 407.771	3952.5	0.0093	mg/L	0.00003	0.0093	mg/L	0.00003	0.33%
Sr 421.552	2218.4	0.0094	mg/L	0.00005	0.0094	mg/L	0.00005	0.53%
Ti 334.940	3949.7	0.0104	mg/L	0.00126	0.0104	mg/L	0.00126	12.13%
Tl 190.801	-127.3	-0.0230	mg/L	0.01012	-0.0230	mg/L	0.01012	44.05%
V 290.880	80161.8	0.4966	mg/L	0.00748	0.4966	mg/L	0.00748	1.51%
W 207.912	131.4	0.0525	mg/L	0.00178	0.0525	mg/L	0.00178	3.39%
Y 371.029	1510.8						125.47	8.31%
Zn 206.200	13371.2	0.8973	mg/L	0.00317	0.8973	mg/L	0.00317	0.35%
P 213.617	-818.7	-0.6123	mg/L	0.01665	-0.6123	mg/L	0.01665	2.72%
Si 251.611	464.0	0.0115	mg/L	0.00061	0.0115	mg/L	0.00061	5.36%
Li 670.784	19.6	0.0003	mg/L	0.00544	0.0003	mg/L	0.00544	>999.9%
Li 610.362	-8046.3	-1.144	mg/L	0.1145	-1.144	mg/L	0.1145	10.01%
S 181.975	-55.3	-0.2267	mg/L	0.03595	-0.2267	mg/L	0.03595	15.86%

ALAB : 00069

Sequence No.: 22
Sample ID: ICP_CCV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 10/17/2012 10:08:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	70130.1	0.5368	mg/L	0.01902	0.5368	mg/L	0.01902	3.54%
QC value within limits for Ag 328.068 Recovery = 107.35%								
Al 308.215	35733.8	1.031	mg/L	0.0202	1.031	mg/L	0.0202	1.96%
QC value within limits for Al 308.215 Recovery = 103.13%								
As 188.979	5897.0	1.050	mg/L	0.0086	1.050	mg/L	0.0086	0.82%
QC value within limits for As 188.979 Recovery = 104.97%								
B 249.677	102150.8	1.141	mg/L	0.0397	1.141	mg/L	0.0397	3.48%
QC value greater than the upper limit for B 249.677 Recovery = 114.13%								
Ba 233.527	112863.4	1.094	mg/L	0.0333	1.094	mg/L	0.0333	3.04%
QC value within limits for Ba 233.527 Recovery = 109.36%								
Be 313.107	2395443.9	1.043	mg/L	0.0339	1.043	mg/L	0.0339	3.25%
QC value within limits for Be 313.107 Recovery = 104.27%								
Bi 223.061	-75.4	-0.0337	mg/L	0.00149	-0.0337	mg/L	0.00149	4.44%
Bi 190.171	11.1	0.0134	mg/L	0.00234	0.0134	mg/L	0.00234	17.42%
Ca 315.887	2394.6	1.099	mg/L	0.0090	1.099	mg/L	0.0090	0.82%
Ca 317.933	2829.2	1.110	mg/L	0.0072	1.110	mg/L	0.0072	0.65%
Cd 214.440	45574.6	1.045	mg/L	0.0336	1.045	mg/L	0.0336	3.21%
QC value within limits for Cd 214.440 Recovery = 104.54%								
Co 228.616	27145.5	1.036	mg/L	0.0375	1.036	mg/L	0.0375	3.62%
QC value within limits for Co 228.616 Recovery = 103.65%								
Cr 267.716	41931.5	1.089	mg/L	0.0341	1.089	mg/L	0.0341	3.13%
QC value within limits for Cr 267.716 Recovery = 108.91%								
Cu 324.752	308506.7	1.009	mg/L	0.0295	1.009	mg/L	0.0295	2.92%
QC value within limits for Cu 324.752 Recovery = 100.87%								
Fe 238.204	42666.5	1.081	mg/L	0.0386	1.081	mg/L	0.0386	3.58%
QC value within limits for Fe 238.204 Recovery = 108.06%								
Fe 273.955	18106.1	1.053	mg/L	0.0189	1.053	mg/L	0.0189	1.80%
QC value within limits for Fe 273.955 Recovery = 105.33%								
K 766.490	26233.5	9.321	mg/L	0.5659	9.321	mg/L	0.5659	6.07%
Mg 279.077	268.5	1.153	mg/L	0.0125	1.153	mg/L	0.0125	1.08%
Mn 257.610	467225.2	1.066	mg/L	0.0359	1.066	mg/L	0.0359	3.37%
QC value within limits for Mn 257.610 Recovery = 106.56%								
Mo 202.031	4692.6	1.019	mg/L	0.0441	1.019	mg/L	0.0441	4.32%
QC value within limits for Mo 202.031 Recovery = 101.90%								
Na 589.592	5898.7	0.9126	mg/L	0.04297	0.9126	mg/L	0.04297	4.71%
Na 330.237	-8.1	-1.042	mg/L	0.6518	-1.042	mg/L	0.6518	-62.57%
Ni 231.604	19907.7	1.053	mg/L	0.0422	1.053	mg/L	0.0422	4.01%
QC value within limits for Ni 231.604 Recovery = 105.26%								
Pb 220.353	21052.6	1.031	mg/L	0.0339	1.031	mg/L	0.0339	3.28%
QC value within limits for Pb 220.353 Recovery = 103.13%								
Sb 206.836	1146.8	1.029	mg/L	0.0006	1.029	mg/L	0.0006	0.06%
QC value within limits for Sb 206.836 Recovery = 102.86%								
Se 196.026	8490.9	1.079	mg/L	0.0080	1.079	mg/L	0.0080	0.74%
QC value within limits for Se 196.026 Recovery = 107.92%								
Sn 189.927	-9.2	-0.0030	mg/L	0.00004	-0.0030	mg/L	0.00004	1.48%
Sr 407.771	374961.6	0.8866	mg/L	0.04960	0.8866	mg/L	0.04960	5.59%
QC value less than the lower limit for Sr 407.771 Recovery = 88.66%								
Sr 421.552	211340.2	0.8923	mg/L	0.04544	0.8923	mg/L	0.04544	5.09%
QC value less than the lower limit for Sr 421.552 Recovery = 89.23%								
Ti 334.940	409307.2	1.077	mg/L	0.0405	1.077	mg/L	0.0405	3.76%
QC value within limits for Ti 334.940 Recovery = 107.70%								
Tl 190.801	6031.5	1.088	mg/L	0.0081	1.088	mg/L	0.0081	0.75%
QC value within limits for Tl 190.801 Recovery = 108.81%								
V 290.880	164704.7	1.041	mg/L	0.0309	1.041	mg/L	0.0309	2.97%
QC value within limits for V 290.880 Recovery = 104.08%								
Y 207.912	44.3	0.0177	mg/L	0.00040	0.0177	mg/L	0.00040	2.24%
Y 371.029	1813.2						300.86	16.59%
Zn 206.200	15366.0	1.031	mg/L	0.0401	1.031	mg/L	0.0401	3.89%
QC value within limits for Zn 206.200 Recovery = 103.11%								
B 213.617	-1878.4	-1.405	mg/L	0.0839	-1.405	mg/L	0.0839	5.97%
Si 251.611	40282.3	0.9944	mg/L	0.02863	0.9944	mg/L	0.02863	2.88%
QC value within limits for Si 251.611 Recovery = 99.44%								
Si 670.784	58337.7	0.8451	mg/L	0.04019	0.8451	mg/L	0.04019	4.76%
Si 610.362	5754.0	0.8184	mg/L	0.00450	0.8184	mg/L	0.00450	0.55%

ALAB 000 13

Sequence No.: 23
Sample ID: ICP_CCVGM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/17/2012 10:11:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	181.9	0.0014	mg/L	0.00039	0.0014	mg/L	0.00039	27.72%
Al 308.215	-486.9	-0.0141	mg/L	0.00188	-0.0141	mg/L	0.00188	13.36%
As 188.979	21.6	0.0038	mg/L	0.00289	0.0038	mg/L	0.00289	75.03%
B 249.677	12459.4	0.1392	mg/L	0.00118	0.1392	mg/L	0.00118	0.84%
Ba 233.527	94.0	0.0009	mg/L	0.00020	0.0009	mg/L	0.00020	21.69%
Be 313.107	556.2	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	20.67%
Bi 223.061	-4.2	-0.0019	mg/L	0.00275	-0.0019	mg/L	0.00275	147.46%
Bi 190.171	19.2	0.0233	mg/L	0.00600	0.0233	mg/L	0.00600	25.74%
Ca 315.887	229150.4	105.2	mg/L	9.48	105.2	mg/L	9.48	9.01%
QC value within limits for Ca 315.887 Recovery = 105.15%								
Ca 317.933	267748.7	105.0	mg/L	9.42	105.0	mg/L	9.42	8.97%
QC value within limits for Ca 317.933 Recovery = 105.01%								
Cd 214.440	56.9	0.0013	mg/L	0.00003	0.0013	mg/L	0.00003	1.93%
Co 228.616	19.5	0.0007	mg/L	0.00024	0.0007	mg/L	0.00024	31.96%
Cr 267.716	92.1	0.0024	mg/L	0.00027	0.0024	mg/L	0.00027	11.24%
Cu 324.752	974.9	0.0032	mg/L	0.00012	0.0032	mg/L	0.00012	3.84%
Fe 238.204	251.1	0.0064	mg/L	0.00031	0.0064	mg/L	0.00031	4.95%
Fe 273.955	-25.0	-0.0015	mg/L	0.00025	-0.0015	mg/L	0.00025	17.39%
K 766.490	295062.5	104.8	mg/L	9.51	104.8	mg/L	9.51	9.07%
QC value within limits for K 766.490 Recovery = 104.84%								
Mg 279.077	24820.7	106.6	mg/L	0.72	106.6	mg/L	0.72	0.68%
QC value within limits for Mg 279.077 Recovery = 106.61%								
Mn 257.610	1646.2	0.0038	mg/L	0.00006	0.0038	mg/L	0.00006	1.65%
Mo 202.031	35.7	0.0077	mg/L	0.00159	0.0077	mg/L	0.00159	20.51%
Na 589.592	682736.0	105.6	mg/L	9.80	105.6	mg/L	9.80	9.28%
QC value within limits for Na 589.592 Recovery = 105.62%								
Na 330.237	809.8	104.2	mg/L	1.13	104.2	mg/L	1.13	1.08%
QC value within limits for Na 330.237 Recovery = 104.25%								
Ni 231.604	16.3	0.0009	mg/L	0.00005	0.0009	mg/L	0.00005	6.31%
Pb 220.353	43.2	0.0021	mg/L	0.00148	0.0021	mg/L	0.00148	69.75%
Sb 206.836	11.0	0.0099	mg/L	0.00080	0.0099	mg/L	0.00080	8.06%
Se 196.026	33.5	0.0043	mg/L	0.02523	0.0043	mg/L	0.02523	592.73%
Sn 189.927	-90.9	-0.0296	mg/L	0.00141	-0.0296	mg/L	0.00141	4.76%
Sr 407.771	366.8	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	9.87%
Sr 421.552	180.1	0.0008	mg/L	0.00007	0.0008	mg/L	0.00007	8.64%
Ti 334.940	3812.6	0.0100	mg/L	0.00011	0.0100	mg/L	0.00011	1.14%
Tl 190.801	-50.5	-0.0091	mg/L	0.00269	-0.0091	mg/L	0.00269	29.53%
V 290.880	-170.4	-0.0011	mg/L	0.00058	-0.0011	mg/L	0.00058	53.97%
V 207.912	30.2	0.0120	mg/L	0.00284	0.0120	mg/L	0.00284	23.61%
Y 371.029	1534.6						43.98	2.87%
Zn 206.200	15.7	0.0011	mg/L	0.00022	0.0011	mg/L	0.00022	20.83%
Z 213.617	-9.3	-0.0069	mg/L	0.00179	-0.0069	mg/L	0.00179	25.91%
Si 251.611	482.9	0.0119	mg/L	0.00036	0.0119	mg/L	0.00036	3.01%
Si 670.784	-236.6	-0.0034	mg/L	0.00044	-0.0034	mg/L	0.00044	12.79%
Si 610.362	-1624.9	-0.2311	mg/L	0.04871	-0.2311	mg/L	0.04871	21.08%
S 181.975	6.8	0.0278	mg/L	0.03137	0.0278	mg/L	0.03137	112.95%

All analyte(s) passed QC.

ALAB : 00071

Sequence No.: 24
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/17/2012 10:13:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	1533.6	0.0117	mg/L	0.00075	0.0117	mg/L	0.00075	6.37%
Al 308.215	-136.7	-0.0039	mg/L	0.00088	-0.0039	mg/L	0.00088	22.37%
As 188.979	12.6	0.0022	mg/L	0.00001	0.0022	mg/L	0.00001	0.59%
B 249.677	11495.6	0.1284	mg/L	0.00007	0.1284	mg/L	0.00007	0.06%
Ba 233.527	33.4	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	34.63%
Be 313.107	184.0	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	33.12%
Bi 223.061	-11.4	-0.0051	mg/L	0.00527	-0.0051	mg/L	0.00527	103.54%
Bi 190.171	4.3	0.0052	mg/L	0.00818	0.0052	mg/L	0.00818	156.36%
Ca 315.887	92.3	0.0424	mg/L	0.00903	0.0424	mg/L	0.00903	21.32%
Ca 317.933	115.6	0.0453	mg/L	0.00278	0.0453	mg/L	0.00278	6.13%
Cd 214.440	64.0	0.0015	mg/L	0.00004	0.0015	mg/L	0.00004	2.85%
Co 228.616	13.7	0.0005	mg/L	0.00031	0.0005	mg/L	0.00031	58.20%
Cr 267.716	15.0	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	6.39%
Cu 324.752	94.5	0.0003	mg/L	0.00024	0.0003	mg/L	0.00024	77.63%
Fe 238.204	36.1	0.0009	mg/L	0.00005	0.0009	mg/L	0.00005	5.85%
Fe 273.955	9.2	0.0005	mg/L	0.00065	0.0005	mg/L	0.00065	121.81%
K 766.490	158.4	0.0563	mg/L	0.00948	0.0563	mg/L	0.00948	16.85%
Mg 279.077	19.3	0.0828	mg/L	0.00585	0.0828	mg/L	0.00585	7.06%
Mn 257.610	79.3	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.15%
Mo 202.031	7.8	0.0017	mg/L	0.00040	0.0017	mg/L	0.00040	23.90%
QC value less than the lower limit for Mo 202.031				Recovery = 0.17%				
Na 589.592	-1.7	-0.0003	mg/L	0.02340	-0.0003	mg/L	0.02340	>999.9%
Na 330.237	1.7	0.2224	mg/L	0.60320	0.2224	mg/L	0.60320	271.20%
Ni 231.604	6.8	0.0004	mg/L	0.00019	0.0004	mg/L	0.00019	53.78%
Pb 220.353	21.4	0.0010	mg/L	0.00095	0.0010	mg/L	0.00095	90.61%
Sb 206.836	9.0	0.0081	mg/L	0.00127	0.0081	mg/L	0.00127	15.66%
QC value less than the lower limit for Sb 206.836				Recovery = 0.81%				
Se 196.026	-114.6	-0.0146	mg/L	0.01037	-0.0146	mg/L	0.01037	71.25%
Sn 189.927	5.6	0.0018	mg/L	0.00100	0.0018	mg/L	0.00100	55.42%
Sr 407.771	83.0	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	68.93%
Sr 421.552	-6.6	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	396.36%
Ti 334.940	138.2	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	37.22%
Tl 190.801	5.3	0.0010	mg/L	0.00356	0.0010	mg/L	0.00356	371.58%
V 290.880	70.9	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.02%
W 207.912	4.5	0.0018	mg/L	0.00040	0.0018	mg/L	0.00040	21.81%
Y 371.029	1526.8						93.07	6.10%
Zn 206.200	7.3	0.0005	mg/L	0.00015	0.0005	mg/L	0.00015	30.43%
P 213.617	6.6	0.0049	mg/L	0.00278	0.0049	mg/L	0.00278	56.12%
Si 251.611	-149.2	-0.0037	mg/L	0.00012	-0.0037	mg/L	0.00012	3.15%
Li 670.784	-16.6	-0.0002	mg/L	0.00349	-0.0002	mg/L	0.00349	>999.9%
Li 610.362	3.5	0.0005	mg/L	0.01478	0.0005	mg/L	0.01478	>999.9%
S 181.975	-6.8	-0.0277	mg/L	0.01447	-0.0277	mg/L	0.01447	52.29%

QC Failed. Continue with analysis.

ALAB:00072

Analysis Begun

Start Time: 10/17/2012 10:35:35 AM
Plasma On Time: 10/17/2012 7:49:05 AM
Logged In Analyst: kedy
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1091901Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 30
Autosampler Location: 26
Sample ID: 0.5 ppm CAM(daily)
Date Collected: 10/17/2012 10:35:35 AM
Analyst: nina
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Mean Data: 0.5 ppm CAM(daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	34714.7	0.2657	mg/L	0.00017	0.2657	mg/L	0.00017	0.06%
Al 308.215	17908.1	0.5168	mg/L	0.00288	0.5168	mg/L	0.00288	0.56%
As 188.979	2913.5	0.5186	mg/L	0.00327	0.5186	mg/L	0.00327	0.63%
B 249.677	50767.4	0.5672	mg/L	0.00025	0.5672	mg/L	0.00025	0.04%
Ba 233.527	56142.2	0.5440	mg/L	0.00002	0.5440	mg/L	0.00002	0.00%
Be 313.107	1110629.7	0.4834	mg/L	0.01059	0.4834	mg/L	0.01059	2.19%
Bi 223.061	-35.1	-0.0157	mg/L	0.00260	-0.0157	mg/L	0.00260	16.58%
Bi 190.171	9.5	0.0115	mg/L	0.00243	0.0115	mg/L	0.00243	21.15%
Ca 315.887	1124.5	0.5160	mg/L	0.00740	0.5160	mg/L	0.00740	1.43%
Ca 317.933	1333.3	0.5229	mg/L	0.00904	0.5229	mg/L	0.00904	1.73%
Cd 214.440	22508.9	0.5163	mg/L	0.00323	0.5163	mg/L	0.00323	0.63%
Co 228.616	13532.2	0.5167	mg/L	0.00459	0.5167	mg/L	0.00459	0.89%
Cr 267.716	20418.5	0.5303	mg/L	0.00410	0.5303	mg/L	0.00410	0.77%
Cu 324.752	158852.1	0.5194	mg/L	0.00019	0.5194	mg/L	0.00019	0.04%
Fe 238.204	21248.5	0.5381	mg/L	0.00030	0.5381	mg/L	0.00030	0.06%
Fe 273.955	8983.6	0.5226	mg/L	0.00635	0.5226	mg/L	0.00635	1.22%
K 766.490	13772.1	4.893	mg/L	0.1033	4.893	mg/L	0.1033	2.11%
Mg 279.077	134.7	0.5785	mg/L	0.03680	0.5785	mg/L	0.03680	6.36%
Mn 257.610	229503.5	0.5234	mg/L	0.00973	0.5234	mg/L	0.00973	1.86%
Mo 202.031	2119.7	0.4603	mg/L	0.00010	0.4603	mg/L	0.00010	0.02%
Na 589.592	3163.8	0.4894	mg/L	0.02015	0.4894	mg/L	0.02015	4.12%
Na 330.237	-12.2	-1.565	mg/L	0.0903	-1.565	mg/L	0.0903	5.77%
Ni 231.604	9973.5	0.5273	mg/L	0.00085	0.5273	mg/L	0.00085	0.16%
Pb 220.353	10458.8	0.5124	mg/L	0.00512	0.5124	mg/L	0.00512	1.00%
Sb 206.836	546.9	0.4905	mg/L	0.00999	0.4905	mg/L	0.00999	2.04%
Se 196.026	3882.7	0.4935	mg/L	0.00776	0.4935	mg/L	0.00776	1.57%
Sn 189.927	-5.6	-0.0018	mg/L	0.00055	-0.0018	mg/L	0.00055	30.51%
Sr 407.771	222386.2	0.5258	mg/L	0.02296	0.5258	mg/L	0.02296	4.37%
Sr 421.552	125181.4	0.5285	mg/L	0.02081	0.5285	mg/L	0.02081	3.94%
Ti 334.940	199157.4	0.5240	mg/L	0.01057	0.5240	mg/L	0.01057	2.02%
Tl 190.801	3059.5	0.5519	mg/L	0.00554	0.5519	mg/L	0.00554	1.00%
V 290.880	79687.8	0.5036	mg/L	0.00014	0.5036	mg/L	0.00014	0.03%
W 207.912	12.9	0.0052	mg/L	0.00273	0.0052	mg/L	0.00273	52.99%
Y 371.029	1520.9						11.56	0.76%
Zn 206.200	7595.8	0.5097	mg/L	0.00656	0.5097	mg/L	0.00656	1.29%
P 213.617	-914.4	-0.6838	mg/L	0.00489	-0.6838	mg/L	0.00489	0.72%
Si 251.611	20297.9	0.5011	mg/L	0.01390	0.5011	mg/L	0.01390	2.77%
Li 670.784	32175.9	0.4661	mg/L	0.01474	0.4661	mg/L	0.01474	3.16%
Li 610.362	4075.9	0.5797	mg/L	0.20055	0.5797	mg/L	0.20055	34.59%
S 181.975	-3.0	-0.0122	mg/L	0.01155	-0.0122	mg/L	0.01155	94.27%

ALAB : 00073

Sequence No.: 31
Sample ID: CCB(daily)
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/17/2012 10:38:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB(daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	4799.7	0.0367	mg/L	0.00359	0.0367	mg/L	0.00359	9.79%
Al 308.215	18.6	0.0005	mg/L	0.00062	0.0005	mg/L	0.00062	116.33%
As 188.979	-5.0	-0.0009	mg/L	0.00049	-0.0009	mg/L	0.00049	54.44%
B 249.677	6468.5	0.0723	mg/L	0.00205	0.0723	mg/L	0.00205	2.84%
Ba 233.527	53.4	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	8.84%
Be 313.107	429.3	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	23.93%
Bi 223.061	-3.3	-0.0015	mg/L	0.00061	-0.0015	mg/L	0.00061	41.30%
Bi 190.171	7.8	0.0095	mg/L	0.01024	0.0095	mg/L	0.01024	108.07%
Ca 315.887	-3.3	-0.0015	mg/L	0.00568	-0.0015	mg/L	0.00568	379.45%
Ca 317.933	14.4	0.0056	mg/L	0.00258	0.0056	mg/L	0.00258	45.68%
Cd 214.440	34.2	0.0008	mg/L	0.00005	0.0008	mg/L	0.00005	6.07%
Co 228.616	4.9	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	55.41%
Cr 267.716	10.4	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	6.89%
Cu 324.752	207.6	0.0007	mg/L	0.00009	0.0007	mg/L	0.00009	13.18%
Fe 238.204	87.5	0.0022	mg/L	0.00026	0.0022	mg/L	0.00026	11.56%
Fe 273.955	27.8	0.0016	mg/L	0.00033	0.0016	mg/L	0.00033	20.48%
K 766.490	-246.5	-0.0876	mg/L	0.04660	-0.0876	mg/L	0.04660	53.21%
Mg 279.077	6.6	0.0282	mg/L	0.00774	0.0282	mg/L	0.00774	27.49%
Mn 257.610	118.8	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	8.11%
Mo 202.031	12.9	0.0028	mg/L	0.00073	0.0028	mg/L	0.00073	26.02%
Na 589.592	-347.2	-0.0537	mg/L	0.02200	-0.0537	mg/L	0.02200	40.96%
Na 330.237	3.3	0.4195	mg/L	0.71473	0.4195	mg/L	0.71473	170.37%
Ni 231.604	2.8	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	19.87%
Pb 220.353	75.1	0.0037	mg/L	0.00076	0.0037	mg/L	0.00076	20.68%
Sb 206.836	26.5	0.0238	mg/L	0.00509	0.0238	mg/L	0.00509	21.39%
Se 196.026	38.6	0.0049	mg/L	0.00684	0.0049	mg/L	0.00684	139.63%
Sn 189.927	-0.8	-0.0003	mg/L	0.00075	-0.0003	mg/L	0.00075	277.12%
Sr 407.771	215.1	0.0005	mg/L	0.00023	0.0005	mg/L	0.00023	45.05%
Sr 421.552	102.3	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	17.59%
Ti 334.940	288.5	0.0008	mg/L	0.00021	0.0008	mg/L	0.00021	27.35%
Tl 190.801	-2.4	-0.0004	mg/L	0.00748	-0.0004	mg/L	0.00748	>999.9%
V 290.880	174.7	0.0011	mg/L	0.00079	0.0011	mg/L	0.00079	71.49%
W 207.912	2.8	0.0011	mg/L	0.00059	0.0011	mg/L	0.00059	52.63%
Y 371.029	1675.8						109.65	6.54%
Zn 206.200	9.7	0.0007	mg/L	0.00007	0.0007	mg/L	0.00007	10.07%
P 213.617	9.0	0.0067	mg/L	0.00167	0.0067	mg/L	0.00167	24.88%
Si 251.611	-126.6	-0.0031	mg/L	0.00030	-0.0031	mg/L	0.00030	9.67%
Li 670.784	-230.8	-0.0033	mg/L	0.00433	-0.0033	mg/L	0.00433	129.44%
Li 610.362	-138.6	-0.0197	mg/L	0.00762	-0.0197	mg/L	0.00762	38.65%
S 181.975	-7.8	-0.0318	mg/L	0.01376	-0.0318	mg/L	0.01376	43.33%

ALAB:00074

Analysis Begun

Start Time: 10/17/2012 12:15:41 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901

Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/17/2012 12:15:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	669.3	11.67	1.74%	[0.00]	mg/L
Al 308.215	2798.0	83.98	3.00%	[0.00]	mg/L
As 188.979	24.7	4.39	17.73%	[0.00]	mg/L
B 249.677	5923.2	170.51	2.88%	[0.00]	mg/L
Ba 233.527	-67.8	8.88	13.09%	[0.00]	mg/L
Be 313.107	-3419.2	32.32	0.95%	[0.00]	mg/L
Bi 223.061	-66.2	3.73	5.63%	[0.00]	mg/L
Bi 190.171	15.5	5.44	35.18%	[0.00]	mg/L
Ca 315.887	17.3	9.25	53.59%	[0.00]	mg/L
Ca 317.933	120.2	0.82	0.69%	[0.00]	mg/L
Cd 214.440	43.8	0.49	1.13%	[0.00]	mg/L
Co 228.616	-38.8	8.25	21.26%	[0.00]	mg/L
Cr 267.716	-70.7	2.66	3.76%	[0.00]	mg/L
Cu 324.752	2135.6	60.12	2.82%	[0.00]	mg/L
Fe 238.204	121.8	7.23	5.94%	[0.00]	mg/L
Fe 273.955	-448.1	6.26	1.40%	[0.00]	mg/L
K 766.490	-775.4	222.66	28.72%	[0.00]	mg/L
Mg 279.077	-41.3	0.25	0.61%	[0.00]	mg/L
Mn 257.610	366.4	10.25	2.80%	[0.00]	mg/L
Mo 202.031	0.5	0.06	12.66%	[0.00]	mg/L
Na 589.592	221.4	163.51	73.85%	[0.00]	mg/L
Na 330.237	34.2	6.46	18.86%	[0.00]	mg/L
Ni 231.604	2.1	1.56	75.75%	[0.00]	mg/L
Pb 220.353	-117.2	19.04	16.25%	[0.00]	mg/L
Sb 206.836	0.5	7.86	>999.9%	[0.00]	mg/L
Se 196.026	86.6	67.82	78.30%	[0.00]	mg/L
Sn 189.927	-8.6	1.71	20.02%	[0.00]	mg/L
Sr 407.771	24.6	32.38	131.54%	[0.00]	mg/L
Sr 421.552	153.5	69.86	45.50%	[0.00]	mg/L
Ti 334.940	-969.0	33.05	3.41%	[0.00]	mg/L
Tl 190.801	16.5	21.69	131.38%	[0.00]	mg/L
V 290.880	3597.1	21.91	0.61%	[0.00]	mg/L
W 207.912	22.6	3.67	16.24%	[0.00]	mg/L
Zn 206.200	9.1	0.96	10.60%	[0.00]	mg/L
P 213.617	-7.1	5.29	74.60%	[0.00]	mg/L
Si 251.611	190.1	14.26	7.50%	[0.00]	mg/L
Li 670.784	-250.2	20.46	8.18%	[0.00]	mg/L
Li 610.362	-3302.0	104.01	3.15%	[0.00]	mg/L
S 181.975	2.1	7.75	371.68%	[0.00]	mg/L

ALAB : 00075

Sequence No.: 2
Sample ID: ICP STD1-0.05PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/17/2012 12:18:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD1-0.05PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	1766.3	68.74	3.89%	[0.05]	mg/L
As 188.979	285.3	1.57	0.55%	[0.05]	mg/L
B 249.677	6247.8	32.98	0.53%	[0.05]	mg/L
Ba 233.527	5583.5	49.43	0.89%	[0.05]	mg/L
Be 313.107	109008.1	59.76	0.05%	[0.05]	mg/L
Cd 214.440	2478.6	11.63	0.47%	[0.05]	mg/L
Co 228.616	1399.2	7.93	0.57%	[0.05]	mg/L
Cr 267.716	2052.2	7.26	0.35%	[0.05]	mg/L
Cu 324.752	15474.2	50.24	0.32%	[0.05]	mg/L
Fe 238.204	2191.7	4.02	0.18%	[0.05]	mg/L
Fe 273.955	1020.3	134.05	13.14%	[0.05]	mg/L
Mn 257.610	25052.4	94.52	0.38%	[0.05]	mg/L
Mo 202.031	231.1	0.17	0.07%	[0.05]	mg/L
Ni 231.604	1015.4	5.04	0.50%	[0.05]	mg/L
Pb 220.353	1138.6	22.99	2.02%	[0.05]	mg/L
Sb 206.836	111.0	6.87	6.19%	[0.05]	mg/L
Se 196.026	298.6	35.75	11.97%	[0.05]	mg/L
Ti 334.940	18963.2	192.81	1.02%	[0.05]	mg/L
Tl 190.801	326.4	12.75	3.91%	[0.05]	mg/L
V 290.880	7974.1	52.25	0.66%	[0.05]	mg/L
Zn 206.200	905.9	11.47	1.27%	[0.05]	mg/L

ALAB : 00076

Sequence No.: 3
Sample ID: ICP STD2-1PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/17/2012 12:20:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD2-1PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	36708.7	203.50	0.55%	[1.00]	mg/L
As 188.979	5719.9	39.17	0.68%	[1.00]	mg/L
B 249.677	90322.5	56.88	0.06%	[1.00]	mg/L
Ba 233.527	111132.9	1366.57	1.23%	[1.00]	mg/L
Be 313.107	2213382.5	101719.91	4.60%	[1.00]	mg/L
Cd 214.440	48803.5	584.18	1.20%	[1.00]	mg/L
Co 228.616	27214.3	18.97	0.07%	[1.00]	mg/L
Cr 267.716	40170.8	163.22	0.41%	[1.00]	mg/L
Cu 324.752	305177.7	816.33	0.27%	[1.00]	mg/L
Fe 238.204	42341.2	60.96	0.14%	[1.00]	mg/L
Fe 273.955	17770.3	407.45	2.29%	[1.00]	mg/L
Mn 257.610	489613.3	26307.78	5.37%	[1.00]	mg/L
Mo 202.031	4474.9	20.01	0.45%	[1.00]	mg/L
Ni 231.604	20264.6	175.02	0.86%	[1.00]	mg/L
Pb 220.353	21081.0	380.86	1.81%	[1.00]	mg/L
Sb 206.836	1095.6	14.61	1.33%	[1.00]	mg/L
Se 196.026	8089.2	14.98	0.19%	[1.00]	mg/L
Sr 407.771	430156.2	2397.81	0.56%	[1.00]	mg/L
Sr 421.552	240414.4	558.01	0.23%	[1.00]	mg/L
Ti 334.940	380278.0	17559.27	4.62%	[1.00]	mg/L
Tl 190.801	6278.4	55.53	0.88%	[1.00]	mg/L
V 290.880	154015.8	1737.06	1.13%	[1.00]	mg/L
Zn 206.200	15713.3	459.29	2.92%	[1.00]	mg/L

ALAB : 00077

Sequence No.: 4
Sample ID: ICP STD3-20PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/17/2012 12:22:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD3-20PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	685677.1	3005.46	0.44%	[20.00]	mg/L
As 188.979	110735.3	583.23	0.53%	[20.00]	mg/L
B 249.677	1767999.8	80262.25	4.54%	[20.00]	mg/L
Ba 233.527	2059742.8	63619.69	3.09%	[20.00]	mg/L
Be 313.107	Saturated2				
Bi 223.061	21721.0	78.44	0.36%	[10]	mg/L
Bi 190.171	8092.9	42.62	0.53%	[10]	mg/L
Ca 315.887	21747.8	142.97	0.66%	[10.00]	mg/L
Ca 317.933	25491.9	159.36	0.63%	[10.00]	mg/L
Cd 214.440	886303.0	26181.96	2.95%	[20.00]	mg/L
Co 228.616	510573.1	9483.68	1.86%	[20.00]	mg/L
Cr 267.716	771980.1	25246.77	3.27%	[20.00]	mg/L
Cu 324.752	5957156.8	216731.82	3.64%	[20.00]	mg/L
Fe 238.204	788171.7	27817.23	3.53%	[20.00]	mg/L
Fe 273.955	332940.2	5114.72	1.54%	[20.00]	mg/L
K 766.490	28445.2	425.29	1.50%	[10.00]	mg/L
Mg 279.077	2386.1	10.10	0.42%	[10.00]	mg/L
Mn 257.610	8589517.6	63859.20	0.74%	[20.00]	mg/L
Mo 202.031	89202.8	1147.73	1.29%	[20.00]	mg/L
Na 589.592	66984.6	1317.54	1.97%	[10.00]	mg/L
Ni 231.604	374739.1	6694.18	1.79%	[20.00]	mg/L
Pb 220.353	393157.9	7721.45	1.96%	[20.00]	mg/L
Se 196.026	156659.9	835.56	0.53%	[20.00]	mg/L
Sn 189.927	30767.2	80.02	0.26%	[10.00]	mg/L
Ti 334.940	7361543.4	80075.20	1.09%	[20.00]	mg/L
Tl 190.801	110548.1	541.54	0.49%	[20.00]	mg/L
V 290.880	3089760.6	85755.09	2.78%	[20.00]	mg/L
W 207.912	12384.2	0.91	0.01%	[5]	mg/L
Zn 206.200	294296.0	7905.17	2.69%	[20.00]	mg/L
Li 670.784	131197.3	1989.07	1.52%	[2.0]	mg/L
Li 610.362	13810.7	469.47	3.40%	[2.0]	mg/L
S 181.975	2434.3	16.47	0.68%	[10.00]	mg/L

Sequence No.: 5
Sample ID: ICP STD4-2PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/17/2012 12:25:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD4-2PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	259689.3	15891.87	6.12%	[2.00]	mg/L

ALAB: 00079

Sequence No.: 6
Sample ID: ICP STD5-100PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 10/17/2012 12:27:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD5-100PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ca 315.887	202527.0	5956.02	2.94%	[100.00]	mg/L
Ca 317.933	239440.8	4475.55	1.87%	[100.00]	mg/L
K 766.490	263921.1	6122.09	2.32%	[100.00]	mg/L
Mg 279.077	22363.6	101.80	0.46%	[100.00]	mg/L
Na 589.592	593286.9	14853.78	2.50%	[100.00]	mg/L
Na 330.237	723.2	1.45	0.20%	[100.00]	mg/L

Sequence No.: 7
Sample ID: ICP STD6-10PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 10/17/2012 12:29:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD6-10PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
P 213.617	13594.3	404.21	2.97%	[10.00]	mg/L
Si 251.611	392259.8	12732.95	3.25%	[10.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	129800	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	34290	0.00000	0.999994	
As 188.979	3	Lin Thru 0	0.0	5537	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	88410	0.00000	0.999999	
Ba 233.527	3	Lin Thru 0	0.0	103000	0.00000	0.999992	
Be 313.107	2	Lin Thru 0	0.0	2213000	0.00000	1.000000	
Bi 223.061	1	Lin Thru 0	0.0	2172	0.00000	1.000000	
Bi 190.171	1	Lin Thru 0	0.0	809.3	0.00000	1.000000	
Ca 315.887	2	Lin Thru 0	0.0	2027	0.00000	0.999973	
Ca 317.933	2	Lin Thru 0	0.0	2396	0.00000	0.999980	
Cd 214.440	3	Lin Thru 0	0.0	44330	0.00000	0.999987	
Co 228.616	3	Lin Thru 0	0.0	25530	0.00000	0.999995	
Cr 267.716	3	Lin Thru 0	0.0	38600	0.00000	0.999998	
Cu 324.752	3	Lin Thru 0	0.0	297900	0.00000	0.999999	
Fe 238.204	3	Lin Thru 0	0.0	39420	0.00000	0.999993	
Fe 273.955	3	Lin Thru 0	0.0	16650	0.00000	0.999994	
K 766.490	2	Lin Thru 0	0.0	2641	0.00000	0.999970	
Mg 279.077	2	Lin Thru 0	0.0	223.8	0.00000	0.999978	
Mn 257.610	3	Lin Thru 0	0.0	429600	0.00000	0.999976	
Mo 202.031	3	Lin Thru 0	0.0	4460	0.00000	1.000000	
Na 589.592	2	Lin Thru 0	0.0	5940	0.00000	0.999919	
Na 330.237	1	Lin Thru 0	0.0	7.232	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	18740	0.00000	0.999992	
Pb 220.353	3	Lin Thru 0	0.0	19660	0.00000	0.999993	
Sb 206.836	2	Lin Thru 0	0.0	1098	0.00000	0.998701	
Se 196.026	3	Lin Thru 0	0.0	7834	0.00000	0.999998	
Sn 189.927	1	Lin Thru 0	0.0	3077	0.00000	1.000000	
Sr 407.771	1	Lin Thru 0	0.0	430200	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	240400	0.00000	1.000000	
Ti 334.940	3	Lin Thru 0	0.0	368100	0.00000	0.999999	
Tl 190.801	3	Lin Thru 0	0.0	5529	0.00000	0.999977	
V 290.880	3	Lin Thru 0	0.0	154500	0.00000	1.000000	
W 207.912	1	Lin Thru 0	0.0	2477	0.00000	1.000000	
Zn 206.200	3	Lin Thru 0	0.0	14720	0.00000	0.999994	
P 213.617	1	Lin Thru 0	0.0	1359	0.00000	1.000000	
Si 251.611	1	Lin Thru 0	0.0	39230	0.00000	1.000000	
Li 670.784	1	Lin Thru 0	0.0	65600	0.00000	1.000000	
Li 610.362	1	Lin Thru 0	0.0	6905	0.00000	1.000000	
S 181.975	1	Lin Thru 0	0.0	243.4	0.00000	1.000000	

ALAB: 00081