

Quality Control Results

Client: Malcolm Pirnie, Inc.

Job Number: 560-24792-1

Sdg Number: March 3, 2011

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 560-57052					
LCS 560-57052/2-A	Lab Control Sample	T	Water	3010A	
MB 560-57052/1-A	Method Blank	T	Water	3010A	
560-24792-1	EP-51HS	T	Water	3010A	
560-24792-1MS	Matrix Spike	T	Water	3010A	
560-24792-1MSD	Matrix Spike Duplicate	T	Water	3010A	
560-24792-2	EP-51LF	T	Water	3010A	
560-24792-3	EP-51	T	Water	3010A	
560-24792-4	EP-12HS	T	Water	3010A	
560-24792-5	EP-12LF	T	Water	3010A	
560-24792-6	EP-12	T	Water	3010A	
560-24792-7	EP-71	T	Water	3010A	
560-24792-8	EP-77	T	Water	3010A	
560-24792-9	FD030311	T	Water	3010A	
Prep Batch: 560-57087					
LCS 560-57087/2-A	Lab Control Sample	T	Water	3010A	
MB 560-57087/1-A	Method Blank	T	Water	3010A	
560-24792-1	EP-51HS	D	Water	3010A	
560-24792-1MS	Matrix Spike	D	Water	3010A	
560-24792-1MSD	Matrix Spike Duplicate	D	Water	3010A	
560-24792-2	EP-51LF	D	Water	3010A	
560-24792-3	EP-51	D	Water	3010A	
560-24792-4	EP-12HS	D	Water	3010A	
560-24792-5	EP-12LF	D	Water	3010A	
560-24792-6	EP-12	D	Water	3010A	
560-24792-7	EP-71	D	Water	3010A	
560-24792-8	EP-77	D	Water	3010A	
560-24792-9	FD030311	D	Water	3010A	
Analysis Batch:560-57130					
LCS 560-57052/2-A	Lab Control Sample	T	Water	6010B	560-57052
MB 560-57052/1-A	Method Blank	T	Water	6010B	560-57052
560-24792-1	EP-51HS	T	Water	6010B	560-57052
560-24792-1MS	Matrix Spike	T	Water	6010B	560-57052
560-24792-1MSD	Matrix Spike Duplicate	T	Water	6010B	560-57052
560-24792-2	EP-51LF	T	Water	6010B	560-57052
560-24792-3	EP-51	T	Water	6010B	560-57052
560-24792-4	EP-12HS	T	Water	6010B	560-57052
560-24792-5	EP-12LF	T	Water	6010B	560-57052
560-24792-6	EP-12	T	Water	6010B	560-57052
560-24792-7	EP-71	T	Water	6010B	560-57052
560-24792-8	EP-77	T	Water	6010B	560-57052
560-24792-9	FD030311	T	Water	6010B	560-57052

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Analysis Batch:560-57201					
LCS 560-57052/2-A	Lab Control Sample	T	Water	6010B	560-57052
MB 560-57052/1-A	Method Blank	T	Water	6010B	560-57052
560-24792-1	EP-51HS	T	Water	6010B	560-57052
560-24792-1MS	Matrix Spike	T	Water	6010B	560-57052
560-24792-1MSD	Matrix Spike Duplicate	T	Water	6010B	560-57052
560-24792-2	EP-51LF	T	Water	6010B	560-57052
560-24792-3	EP-51	T	Water	6010B	560-57052
560-24792-4	EP-12HS	T	Water	6010B	560-57052
560-24792-5	EP-12LF	T	Water	6010B	560-57052
560-24792-6	EP-12	T	Water	6010B	560-57052
560-24792-7	EP-71	T	Water	6010B	560-57052
560-24792-8	EP-77	T	Water	6010B	560-57052
560-24792-9	FD030311	T	Water	6010B	560-57052
Analysis Batch:560-57254					
LCS 560-57087/2-A	Lab Control Sample	T	Water	6020	560-57087
MB 560-57087/1-A	Method Blank	T	Water	6020	560-57087
560-24792-1	EP-51HS	D	Water	6020	560-57087
560-24792-1MS	Matrix Spike	D	Water	6020	560-57087
560-24792-1MSD	Matrix Spike Duplicate	D	Water	6020	560-57087
Prep Batch: 560-57313					
LCS 560-57313/29-A	Lab Control Sample	T	Water	7470A	
LCS 560-57313/5-A	Lab Control Sample	T	Water	7470A	
MB 560-57313/28-A	Method Blank	T	Water	7470A	
MB 560-57313/4-A	Method Blank	T	Water	7470A	
560-24792-1	EP-51HS	T	Water	7470A	
560-24792-1MS	Matrix Spike	T	Water	7470A	
560-24792-1MSD	Matrix Spike Duplicate	T	Water	7470A	
560-24792-2	EP-51LF	T	Water	7470A	
560-24792-3	EP-51	T	Water	7470A	
560-24792-4	EP-12HS	T	Water	7470A	
560-24792-5	EP-12LF	T	Water	7470A	
560-24792-6	EP-12	T	Water	7470A	
560-24792-7	EP-71	T	Water	7470A	
560-24792-8	EP-77	T	Water	7470A	
560-24792-9	FD030311	T	Water	7470A	

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Analysis Batch:560-57327					
LCS 560-57313/29-A	Lab Control Sample	T	Water	7470A	560-57313
LCS 560-57313/5-A	Lab Control Sample	T	Water	7470A	560-57313
MB 560-57313/28-A	Method Blank	T	Water	7470A	560-57313
MB 560-57313/4-A	Method Blank	T	Water	7470A	560-57313
560-24792-1	EP-51HS	T	Water	7470A	560-57313
560-24792-1MS	Matrix Spike	T	Water	7470A	560-57313
560-24792-1MSD	Matrix Spike Duplicate	T	Water	7470A	560-57313
560-24792-2	EP-51LF	T	Water	7470A	560-57313
560-24792-3	EP-51	T	Water	7470A	560-57313
560-24792-4	EP-12HS	T	Water	7470A	560-57313
560-24792-5	EP-12LF	T	Water	7470A	560-57313
560-24792-6	EP-12	T	Water	7470A	560-57313
560-24792-7	EP-71	T	Water	7470A	560-57313
560-24792-8	EP-77	T	Water	7470A	560-57313
560-24792-9	FD030311	T	Water	7470A	560-57313
Prep Batch: 560-57509					
LCS 560-57509/31-A	Lab Control Sample	T	Water	7470A	
LCS 560-57509/5-A	Lab Control Sample	T	Water	7470A	
MB 560-57509/30-A	Method Blank	T	Water	7470A	
MB 560-57509/4-A	Method Blank	T	Water	7470A	
560-24792-1	EP-51HS	D	Water	7470A	
560-24792-2	EP-51LF	D	Water	7470A	
560-24792-3	EP-51	D	Water	7470A	
560-24792-4	EP-12HS	D	Water	7470A	
560-24792-5	EP-12LF	D	Water	7470A	
560-24792-6	EP-12	D	Water	7470A	
560-24792-7	EP-71	D	Water	7470A	
560-24792-8	EP-77	D	Water	7470A	
560-24792-9	FD030311	D	Water	7470A	
Analysis Batch:560-57545					
LCS 560-57509/31-A	Lab Control Sample	T	Water	7470A	560-57509
LCS 560-57509/5-A	Lab Control Sample	T	Water	7470A	560-57509
MB 560-57509/30-A	Method Blank	T	Water	7470A	560-57509
MB 560-57509/4-A	Method Blank	T	Water	7470A	560-57509
560-24792-1	EP-51HS	D	Water	7470A	560-57509
560-24792-2	EP-51LF	D	Water	7470A	560-57509
560-24792-3	EP-51	D	Water	7470A	560-57509
560-24792-4	EP-12HS	D	Water	7470A	560-57509
560-24792-5	EP-12LF	D	Water	7470A	560-57509
560-24792-6	EP-12	D	Water	7470A	560-57509
560-24792-7	EP-71	D	Water	7470A	560-57509
560-24792-8	EP-77	D	Water	7470A	560-57509
560-24792-9	FD030311	D	Water	7470A	560-57509

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Analysis Batch:560-57733					
LCS 560-57052/2-A	Lab Control Sample	T	Water	6020	560-57052
MB 560-57052/1-A	Method Blank	T	Water	6020	560-57052
560-24792-1	EP-51HS	T	Water	6020	560-57052
560-24792-1MS	Matrix Spike	T	Water	6020	560-57052
560-24792-1MSD	Matrix Spike Duplicate	T	Water	6020	560-57052
Analysis Batch:560-57773					
LCS 560-57052/2-A	Lab Control Sample	T	Water	6020	560-57052
MB 560-57052/1-A	Method Blank	T	Water	6020	560-57052
560-24792-1	EP-51HS	T	Water	6020	560-57052
560-24792-1MS	Matrix Spike	T	Water	6020	560-57052
560-24792-1MSD	Matrix Spike Duplicate	T	Water	6020	560-57052
Analysis Batch:560-57885					
LCS 560-57087/2-A	Lab Control Sample	T	Water	6020	560-57087
MB 560-57087/1-A	Method Blank	T	Water	6020	560-57087
560-24792-1	EP-51HS	D	Water	6020	560-57087
560-24792-1MS	Matrix Spike	D	Water	6020	560-57087
560-24792-1MSD	Matrix Spike Duplicate	D	Water	6020	560-57087
560-24792-2	EP-51LF	D	Water	6020	560-57087
560-24792-3	EP-51	D	Water	6020	560-57087
560-24792-4	EP-12HS	D	Water	6020	560-57087
560-24792-5	EP-12LF	D	Water	6020	560-57087
560-24792-6	EP-12	D	Water	6020	560-57087
560-24792-7	EP-71	D	Water	6020	560-57087
560-24792-8	EP-77	D	Water	6020	560-57087
560-24792-9	FD030311	D	Water	6020	560-57087

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Analysis Batch:560-57926					
LCS 560-57052/2-A	Lab Control Sample	T	Water	6020	560-57052
MB 560-57052/1-A	Method Blank	T	Water	6020	560-57052
LCS 560-57087/2-A	Lab Control Sample	T	Water	6020	560-57087
MB 560-57087/1-A	Method Blank	T	Water	6020	560-57087
560-24792-1	EP-51HS	D	Water	6020	560-57087
560-24792-1MS	Matrix Spike	D	Water	6020	560-57087
560-24792-1MSD	Matrix Spike Duplicate	D	Water	6020	560-57087
560-24792-2	EP-51LF	T	Water	6020	560-57052
560-24792-2	EP-51LF	D	Water	6020	560-57087
560-24792-3	EP-51	T	Water	6020	560-57052
560-24792-3	EP-51	D	Water	6020	560-57087
560-24792-4	EP-12HS	T	Water	6020	560-57052
560-24792-4	EP-12HS	D	Water	6020	560-57087
560-24792-5	EP-12LF	T	Water	6020	560-57052
560-24792-5	EP-12LF	D	Water	6020	560-57087
560-24792-6	EP-12	T	Water	6020	560-57052
560-24792-6	EP-12	D	Water	6020	560-57087
560-24792-7	EP-71	T	Water	6020	560-57052
560-24792-7	EP-71	D	Water	6020	560-57087
560-24792-8	EP-77	T	Water	6020	560-57052
560-24792-8	EP-77	D	Water	6020	560-57087
560-24792-9	FD030311	T	Water	6020	560-57052
560-24792-9	FD030311	D	Water	6020	560-57087
Analysis Batch:560-57960					
LCS 560-57052/2-A	Lab Control Sample	T	Water	6020	560-57052
MB 560-57052/1-A	Method Blank	T	Water	6020	560-57052
LCS 560-57087/2-A	Lab Control Sample	T	Water	6020	560-57087
MB 560-57087/1-A	Method Blank	T	Water	6020	560-57087
560-24792-1	EP-51HS	T	Water	6020	560-57052
560-24792-1MS	Matrix Spike	T	Water	6020	560-57052
560-24792-1MSD	Matrix Spike Duplicate	T	Water	6020	560-57052
560-24792-2	EP-51LF	T	Water	6020	560-57052
560-24792-3	EP-51	T	Water	6020	560-57052
560-24792-4	EP-12HS	T	Water	6020	560-57052
560-24792-5	EP-12LF	T	Water	6020	560-57052
560-24792-6	EP-12	T	Water	6020	560-57052
560-24792-7	EP-71	D	Water	6020	560-57087
560-24792-8	EP-77	D	Water	6020	560-57087
560-24792-9	FD030311	D	Water	6020	560-57087

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Analysis Batch:560-57979					
LCS 560-57052/2-A	Lab Control Sample	T	Water	6020	560-57052
MB 560-57052/1-A	Method Blank	T	Water	6020	560-57052
560-24792-1	EP-51HS	D	Water	6020	560-57087
560-24792-1MSD	Matrix Spike Duplicate	D	Water	6020	560-57087
560-24792-2	EP-51LF	T	Water	6020	560-57052
560-24792-3	EP-51	T	Water	6020	560-57052
560-24792-4	EP-12HS	T	Water	6020	560-57052
560-24792-5	EP-12LF	T	Water	6020	560-57052
560-24792-6	EP-12	T	Water	6020	560-57052
560-24792-7	EP-71	T	Water	6020	560-57052
560-24792-7	EP-71	D	Water	6020	560-57087
560-24792-8	EP-77	T	Water	6020	560-57052
560-24792-8	EP-77	D	Water	6020	560-57087
560-24792-9	FD030311	T	Water	6020	560-57052
560-24792-9	FD030311	D	Water	6020	560-57087

Report Basis

D = Dissolved

T = Total

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QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:560-57107					
LCS 560-57107/5	Lab Control Sample	T	Water	300.0	
MB 560-57107/4	Method Blank	T	Water	300.0	
560-24792-1	EP-51HS	T	Water	300.0	
560-24792-2	EP-51LF	T	Water	300.0	
Analysis Batch:560-57189					
MB 560-57189/1	Method Blank	T	Water	160.2	
560-24792-1	EP-51HS	T	Water	160.2	
560-24792-2	EP-51LF	T	Water	160.2	
560-24792-3	EP-51	T	Water	160.2	
560-24792-4	EP-12HS	T	Water	160.2	
560-24792-5	EP-12LF	T	Water	160.2	
560-24792-6	EP-12	T	Water	160.2	
560-24792-7	EP-71	T	Water	160.2	
560-24792-8	EP-77	T	Water	160.2	
560-24792-9	FD030311	T	Water	160.2	
560-24792-9DU	Duplicate	T	Water	160.2	
Analysis Batch:560-57194					
LCS 560-57194/4	Lab Control Sample	T	Water	300.0	
MB 560-57194/3	Method Blank	T	Water	300.0	
560-24792-3	EP-51	T	Water	300.0	
560-24792-4	EP-12HS	T	Water	300.0	
560-24792-5	EP-12LF	T	Water	300.0	
560-24792-6	EP-12	T	Water	300.0	
560-24792-7	EP-71	T	Water	300.0	
560-24792-8	EP-77	T	Water	300.0	
560-24792-9	FD030311	T	Water	300.0	
Analysis Batch:560-57232					
LCS 560-57232/34	Lab Control Sample	T	Water	376.2	
MB 560-57232/33	Method Blank	T	Water	376.2	
560-24792-1	EP-51HS	T	Water	376.2	
560-24792-2	EP-51LF	T	Water	376.2	
560-24792-3	EP-51	T	Water	376.2	
560-24792-4	EP-12HS	T	Water	376.2	
560-24792-5	EP-12LF	T	Water	376.2	
560-24792-6	EP-12	T	Water	376.2	
560-24792-7	EP-71	T	Water	376.2	
560-24792-8	EP-77	T	Water	376.2	
560-24792-9	FD030311	T	Water	376.2	

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:560-57293					
LCS 560-57293/2	Lab Control Sample	T	Water	160.1	
MB 560-57293/1	Method Blank	T	Water	160.1	
560-24792-1	EP-51HS	T	Water	160.1	
560-24792-2	EP-51LF	T	Water	160.1	
560-24792-3	EP-51	T	Water	160.1	
560-24792-4	EP-12HS	T	Water	160.1	
560-24792-5	EP-12LF	T	Water	160.1	
560-24792-6	EP-12	T	Water	160.1	
560-24792-7	EP-71	T	Water	160.1	
560-24792-8	EP-77	T	Water	160.1	
560-24792-9	FD030311	T	Water	160.1	
Analysis Batch:560-57419					
LCS 560-57419/30	Lab Control Sample	T	Water	340.2	
MB 560-57419/3	Method Blank	T	Water	340.2	
560-24792-1	EP-51HS	T	Water	340.2	
560-24792-2	EP-51LF	T	Water	340.2	
560-24792-2MS	Matrix Spike	T	Water	340.2	
560-24792-2MSD	Matrix Spike Duplicate	T	Water	340.2	
560-24792-3	EP-51	T	Water	340.2	
560-24792-4	EP-12HS	T	Water	340.2	
560-24792-5	EP-12LF	T	Water	340.2	
560-24792-6	EP-12	T	Water	340.2	
560-24792-7	EP-71	T	Water	340.2	
560-24792-8	EP-77	T	Water	340.2	
Analysis Batch:560-57520					
LCS 560-57520/1	Lab Control Sample	T	Water	SM 2320B	
LCS 560-57520/27	Lab Control Sample	T	Water	SM 2320B	
560-24792-1	EP-51HS	T	Water	SM 2320B	
560-24792-2	EP-51LF	T	Water	SM 2320B	
560-24792-3	EP-51	T	Water	SM 2320B	
560-24792-4	EP-12HS	T	Water	SM 2320B	
560-24792-5	EP-12LF	T	Water	SM 2320B	
560-24792-6	EP-12	T	Water	SM 2320B	
560-24792-7	EP-71	T	Water	SM 2320B	
560-24792-8	EP-77	T	Water	SM 2320B	
560-24792-9	FD030311	T	Water	SM 2320B	

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:560-57542					
LCS 560-57542/5	Lab Control Sample	T	Water	300.0	
MB 560-57542/3	Method Blank	T	Water	300.0	
560-24792-1	EP-51HS	T	Water	300.0	
560-24792-2	EP-51LF	T	Water	300.0	
560-24792-3	EP-51	T	Water	300.0	
560-24792-4	EP-12HS	T	Water	300.0	
560-24792-5	EP-12LF	T	Water	300.0	
560-24792-6	EP-12	T	Water	300.0	
560-24792-7	EP-71	T	Water	300.0	
560-24792-8	EP-77	T	Water	300.0	
560-24792-9	FD030311	T	Water	300.0	
Analysis Batch:560-57560					
LCS 560-57560/4	Lab Control Sample	T	Water	340.2	
MB 560-57560/3	Method Blank	T	Water	340.2	
560-24792-9	FD030311	T	Water	340.2	
Analysis Batch:560-57572					
LCS 560-57572/4	Lab Control Sample	T	Water	415.1	
MB 560-57572/3	Method Blank	T	Water	415.1	
560-24792-1	EP-51HS	T	Water	415.1	
560-24792-2	EP-51LF	T	Water	415.1	
560-24792-3	EP-51	T	Water	415.1	
560-24792-4	EP-12HS	T	Water	415.1	
560-24792-5	EP-12LF	T	Water	415.1	
560-24792-6	EP-12	T	Water	415.1	
560-24792-7	EP-71	T	Water	415.1	
560-24792-8	EP-77	T	Water	415.1	
560-24792-9	FD030311	T	Water	415.1	

Report Basis

T = Total