



ALS USA Inc.
 4977 Energy Way
 Reno NV 89502
 Phone: 775 356 5395 Fax: 775 355 0179 www.alsglobal.com

To: MINNESOTA STATE DEPARTMENT OF
 NATURAL RESOURCES
 1525 3RD AVENUE EAST
 HIBBING MN 55746

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CERTIFICATE RE12123039

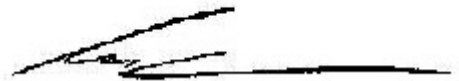
Project: DNR Project 389
 P.O. No.: R2901-3000019048
 This report is for 161 Sediment samples submitted to our lab in Reno, NV, USA on 1-JUN-2012.
 The following have access to data associated with this certificate:
 DAVID ANTONSON DONALD ELSENHEIMER DENNIS MARTIN

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-51	Pulverize Pan Concentrate
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
<small>The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim 'or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519</small>		

To: MINNESOTA STATE DEPARTMENT OF NATURAL RESOURCES
 ATTN: DONALD ELSENHEIMER
 500 LAFAYETTE RD., BOX 45
 ST. PAUL MN 55155-4045

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm
		0.02	0.001	0.005	0.001
2011-DC-001 -THMC		0.08	0.002	<0.005	0.002
2011-DC-002 -THMC		0.06	0.003	<0.005	0.002
2011-DC-003 -THMC		0.08	0.002	0.008	0.002
2011-DC-004 -THMC		0.04	0.004	<0.005	0.003
2011-DC-009 -THMC		0.04	0.006	<0.005	0.001
2011-DC-010 -THMC		0.04	0.007	<0.005	0.003
2011-DC-011 -THMC		0.10	0.001	0.009	0.002
2011-DC-012 -THMC		0.10	0.003	<0.005	0.002
2011-DC-013 -THMC		0.04	0.003	<0.005	0.003
2011-DC-014 -THMC		0.10	0.001	<0.005	0.002
2011-DC-015 -THMC		0.08	0.005	0.006	0.003
2011-DC-018 -THMC		0.14	0.002	<0.005	0.003
2011-DC-019 -THMC		0.04	<0.001	0.006	0.002
2011-DC-020 -THMC		0.06	0.028	0.008	0.002
2011-DC-021 -THMC		0.04	0.001	<0.005	0.002
2011-DC-022 -THMC		0.04	0.001	<0.005	0.002
2011-DC-023 -THMC		0.04	<0.001	0.006	0.001
2011-DC-024 -THMC		0.06	0.183	0.007	0.001
2011-DC-025 -THMC		0.16	0.045	<0.005	0.002
2011-DC-026 -THMC		0.06	0.001	<0.005	0.006
2011-DC-027 -THMC		0.06	0.040	<0.005	0.002
2011-DC-028 -THMC		0.06	0.021	0.007	0.001
2011-DC-030 -THMC		0.04	0.002	<0.005	0.001
2011-DC-031 -THMC		0.06	0.002	0.005	0.002
2011-DC-032 -THMC		0.06	0.002	0.006	0.002
2011-DC-033 -THMC		0.08	0.014	0.008	0.001
2011-DC-034 -THMC		0.08	0.034	<0.005	0.003
2011-DC-035 -THMC		0.08	0.004	<0.005	0.007
2011-DC-039 -THMC		0.04	0.003	0.012	0.002
2011-DC-040 -THMC		0.08	0.001	0.007	0.002
2011-DC-041 -THMC		0.08	0.002	0.009	0.002
2011-DC-042 -THMC		0.06	0.005	<0.005	0.002
2011-DC-043 -THMC		0.08	0.003	0.007	0.003
2011-DC-045 -THMC		0.10	0.001	0.006	0.003
2011-DC-049 -THMC		0.04	0.030	<0.005	0.004
2011-DC-050 -THMC		0.02	0.001	<0.005	0.001
2011-DC-051 -THMC		0.02	<0.001	0.010	<0.001
2011-DC-052 -THMC		0.02	0.020	0.005	0.004
2011-DC-053 -THMC		0.04	0.001	<0.005	0.002
2011-DC-054 -THMC		0.06	0.004	0.007	0.002



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Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm
		0.02	0.001	0.005	0.001
2011-DC-055 -THMC		0.08	0.001	0.005	0.002
2011-DC-056 -THMC		0.06	0.002	<0.005	0.004
2011-DC-057 -THMC		0.04	<0.001	<0.005	0.002
2011-DC-058 -THMC		0.04	0.001	0.006	0.002
2011-DC-059 -THMC		0.04	0.003	<0.005	0.001
2011-DC-060 -THMC		0.02	<0.001	0.007	0.001
2011-DC-061 -THMC		0.02	0.002	<0.005	0.004
2011-DC-062 -THMC		0.02	0.001	<0.005	0.001
2011-DC-063 -THMC		0.04	<0.001	<0.005	0.001
2011-DC-064 -THMC		0.02	0.003	<0.005	0.008
2011-DC-065 -THMC		0.02	0.013	<0.005	<0.001
2011-DC-066 -THMC		0.02	0.008	0.014	0.007
2011-DC-067 -THMC		0.04	0.002	0.011	0.002
2011-DC-068 -THMC		0.02	0.002	<0.005	0.002
2011-DC-069 -THMC		0.02	0.225	<0.005	0.001
2011-DC-070 -THMC		0.02	0.020	0.011	0.002
2011-DC-071 -THMC		0.02	0.032	0.006	0.002
2011-DC-072 -THMC		0.08	0.002	<0.005	0.002
2011-DC-073 -THMC		0.08	0.003	<0.005	0.002
2011-DC-074 -THMC		0.02	0.004	<0.005	0.001
2011-DC-076 -THMC		0.02	0.003	<0.005	<0.001
2011-DC-077 -THMC		0.04	0.002	<0.005	0.003
2011-DC-078 -THMC		0.02	0.001	<0.005	0.001
2011-DC-079 -THMC		0.02	0.004	<0.005	0.001
2011-DC-080 -THMC		0.02	0.018	<0.005	<0.001
2011-DC-081 -THMC		0.12	0.029	<0.005	0.004
2011-DC-082 -THMC		0.04	0.004	0.008	0.002
2011-DC-083 -THMC		0.04	0.007	0.007	0.002
2011-DC-084 -THMC		0.02	0.004	0.006	0.001
2011-DC-085 -THMC		0.06	0.001	<0.005	0.001
2011-DC-088 -THMC		0.02	0.013	0.005	0.003
2011-DC-089 -THMC		0.02	0.001	<0.005	0.002
2011-DC-090 -THMC		0.04	0.024	0.009	0.002
2011-DC-091 -THMC		0.06	0.001	<0.005	0.001
2011-DC-092 -THMC		0.02	0.002	0.020	<0.001
2011-DC-093 -THMC		0.06	0.001	0.005	0.001
2011-DC-094 -THMC		0.08	0.091	0.005	<0.001
2011-DC-096 -THMC		0.06	0.001	<0.005	0.001
2011-DC-097 -THMC		0.04	0.043	<0.005	<0.001
2011-DC-099 -THMC		0.02	0.006	<0.005	0.014



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		0.02	0.001	0.005	0.001
2011-DC-100 -THMC		0.08	0.155	<0.005	0.001
2011-DC-101 -THMC		0.02	0.002	<0.005	0.002
2011-DC-102 -THMC		0.06	0.002	<0.005	0.002
2011-DC-103 -THMC		0.04	0.013	0.020	0.008
2011-DC-104 -THMC		0.02	0.035	<0.005	<0.001
2011-DC-105 -THMC		0.04	0.002	<0.005	0.001
2011-DC-106 -THMC		0.02	0.025	<0.005	0.001
2011-DC-107 -THMC		0.06	0.011	<0.005	0.001
2011-DC-108 -THMC		0.08	0.017	<0.005	0.001
2011-DC-109 -THMC		0.06	0.001	<0.005	<0.001
2011-DC-110 -THMC		0.04	0.003	0.005	0.002
2011-DC-111 -THMC		0.06	0.001	<0.005	<0.001
2011-DC-112 -THMC		0.06	0.009	<0.005	0.002
2011-DC-121 -THMC		0.04	0.115	<0.005	0.001
2011-DC-122 -THMC		0.04	0.004	<0.005	0.002
2011-DC-123 -THMC		0.02	<0.001	<0.005	<0.001
2011-DC-001 -MHMC		0.02			
2011-DC-002 -MHMC		0.02			
2011-DC-003 -MHMC		0.02			
2011-DC-004 -MHMC		0.02			
2011-DC-009 -MHMC		0.02			
2011-DC-010 -MHMC		0.02			
2011-DC-011 -MHMC		0.02			
2011-DC-012 -MHMC		0.02			
2011-DC-013 -MHMC		0.02			
2011-DC-014 -MHMC		0.02			
2011-DC-015 -MHMC		0.02			
2011-DC-018 -MHMC		0.02			
2011-DC-019 -MHMC		0.02			
2011-DC-020 -MHMC		0.02			
2011-DC-021 -MHMC		0.02			
2011-DC-022 -MHMC		0.02			
2011-DC-023 -MHMC		0.02			
2011-DC-024 -MHMC		0.02			
2011-DC-025 -MHMC		0.04			
2011-DC-026 -MHMC		0.02			
2011-DC-027 -MHMC		0.02			
2011-DC-030 -MHMC		0.02			
2011-DC-031 -MHMC		0.02			
2011-DC-032 -MHMC		0.02			



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		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm
		0.02	0.001	0.005	0.001
2011-DC-033 -MHMC		0.02			
2011-DC-034 -MHMC		0.02			
2011-DC-035 -MHMC		0.02			
2011-DC-039 -MHMC		0.02			
2011-DC-040 -MHMC		0.02			
2011-DC-041 -MHMC		0.02			
2011-DC-042 -MHMC		0.02			
2011-DC-043 -MHMC		0.02			
2011-DC-045 -MHMC		0.02			
2011-DC-051 -MHMC		0.02			
2011-DC-053 -MHMC		0.02			
2011-DC-054 -MHMC		0.02			
2011-DC-055 -MHMC		0.02			
2011-DC-056 -MHMC		0.02			
2011-DC-057 -MHMC		0.02			
2011-DC-058 -MHMC		0.02			
2011-DC-059 -MHMC		<0.02			
2011-DC-060 -MHMC		<0.02			
2011-DC-062 -MHMC		<0.02			
2011-DC-071 -MHMC		<0.02			
2011-DC-072 -MHMC		<0.02			
2011-DC-073 -MHMC		<0.02			
2011-DC-074 -MHMC		<0.02			
2011-DC-077 -MHMC		<0.02			
2011-DC-078 -MHMC		<0.02			
2011-DC-081 -MHMC		0.02			
2011-DC-082 -MHMC		<0.02			
2011-DC-083 -MHMC		0.02			
2011-DC-085 -MHMC		0.02			
2011-DC-089 -MHMC		<0.02			
2011-DC-091 -MHMC		<0.02			
2011-DC-093 -MHMC		<0.02			
2011-DC-096 -MHMC		<0.02			
2011-DC-100 -MHMC		0.02			
2011-DC-102 -MHMC		0.02			
2011-DC-103 -MHMC		0.02			
2011-DC-104 -MHMC		<0.02			
2011-DC-105 -MHMC		0.02			
2011-DC-107 -MHMC		0.02			
2011-DC-109 -MHMC		0.02			



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm
2011-DC-122 -MHMC		0.02	0.001	0.005	0.001
		<0.02			