IDEAL Cooperage

COMPLETED ANALYSIS REPORT

REPORT DATE: 90/01/17

PROJECT NO: 730

PROJECT NAME: IDEAL COOPERAGE IO

STATION NO	DATE FROM TO	TIME OF DAY	LABNO	PARNO	PARAMETER NAME		UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
			093935	00937	POTASSIUM		MG/L	TOTAL	32.3 J	
				00927	MAGNESIUM		MG/L	TOTAL	0.2	
				01055	MANGANESE		UG/L	TOTAL	4 U	
				00929	SODIUM		MG/L	TOTAL	0.34 J	
				01067	NICKEL		UG/L	TOTAL	10 U	
				01051	LEAD		UG/L	TOTAL	15 U	
				01097	ANTIMONY		UG/L	TOTAL	15 U	
				01147	SELENIUM		UG/L	TOTAL	2 U	QR
				01059	THALLIUM		UG/L	TOTAL	2 U	QR
				01087	VANADIUM		UG/L	TOTAL	4 U	
				01092	ZINC		UG/L	TOTAL	140 U	
NONE	89/11/15	1200			CYANIDE					
DEPTH: 0000	SUBSTRATE: SLUDGE									
DESCRIPTION: SAMPLE 001 COMPOSITE OF DRUMMED MAT										
			093936	01078	SILVER	S	MG/KG	SEDIMENT	0.3 U	
				01108	ALUMINUM	S	MG/KG	SEDIMENT	256	
				01003	ARSENIC		MG/KG	SEDIMENT	0.2 U	
				01008	BARIUM	S	MG/KG	SEDIMENT	8.00	
				01013	BERYLLIUM	S	MG/KG	SEDIMENT	0.05 U	
				00917	CALCIUM	S	MG/KG	SEDIMENT	3080	QS
				01028	CADMIUM	S	MG/KG	SEDIMENT	0.3 U	
				01038	COBALT	S	MG/KG	SEDIMENT	7.77	
				01029	CHROMIUM	S	MG/KG	SEDIMENT	14.0	
				01043	COPPER	S	MG/KG	SEDIMENT	32.6	
				01170	IRON	S	MG/KG	SEDIMENT	4599	QS
				71921	MERCURY	S	MG/KG	SEDIMENT	0.1 U	
				99999	POTASSIUM		MG/KG	SEDIMENT	123 J	
				00924	MAGNESIUM	S	MG/KG	SEDIMENT	170	
				01053	MANGANESE	S	MG/KG	SEDIMENT	62.3	
				00934	SODIUM	S	MG/KG	SEDIMENT	2416 J	
				01068	NICKEL	S	MG/KG	SEDIMENT	957	✓
				01052	LEAD	S	MG/KG	SEDIMENT	30.8	QS
				01098	ANTIMONY	S	MG/KG	SEDIMENT	0.8 U	
				01148	SELENIUM	S	MG/KG	SEDIMENT	0.2 U	QR
				34480	THALLIUM	S	MG/KG	SEDIMENT	0.2 U	
				01088	VANADIUM	S	MG/KG	SEDIMENT	1.37	
				01093	ZINC	S	MG/KG	SEDIMENT	81.1	
				00721	CYANIDE	S	MG/KG	SEDIMENT	1 U	

***** END OF PROJECT *****

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EXPLANATIONS OF REMARK CODES

REMARK CODE	EXPLANATION
B	RESULTS BASED UPON COLONY COUNTS OUTSIDE ACCEPTABLE RANGE
J	ESTIMATED VALUE
K	ACTUAL VALUE KNOWN TO BE LESS THAN VALUE GIVEN
L	ACTUAL VALUE KNOWN TO BE GREATER THAN VALUE GIVEN
M	PRESENCE OF MATERIAL VERIFIED BUT NOT QUANTIFIED
N	NO OBSERVABLE EFFECT CONCENTRATION < 0.3%
O	SAMPLED BUT NOT ANALYZED DUE TO LAB ACCIDENT
T	REPORTED VALUE LESS THAN CRITERIA OF DETECTION
U	MATERIAL ANALYZED FOR, BUT NOT DETECTED

QA/QC REMARK CODES

CODE	EXPLANATION
QD	ACCURACY CHECK SAMPLE ABOVE UPPER ACCEPTANCE LIMIT
QE	ACCURACY CHECK SAMPLE BELOW LOWER ACCEPTANCE LIMIT
QF	PRECISION OF CALIBRATION CURVE LESS THAN ACCEPTANCE CRITERIA
QG	CONTINUING CALIBRATION CHECK DOES NOT MEET ACCEPTANCE CRITERIA
QS	SPIKE RECOVERIES ABOVE UPPER ACCPETANCE LIMIT
QR	SPIKE RECOVERIES BELOW LOWER ACCPETANCE LIMIT
QP	SAMPLE REPLICATE PRECISION DOES NOT MEET ACCEPTANCE CRITERIA
QH	RECOMMENDED HOLDING TIMES EXCEEDED
QT	TENTATIVELY IDENTIFIED COMPOUND
QB	BLANK CONTAMINATED BY ANALYTE IN EXCESS OF ACCEPTANCE CRITERIA

LOCATION CODES FOR IDENTIFICATION OF SAMPLING POINTS AT INDUSTRIAL / SANITARY FACILITIES, LANDFILLS, HAZARDOUS WASTE SITES.

CODE NUMBERS	SAMPLING POINTS
1001 - 1050	EFFLUENT PIPE NUMBER 001 TO 050
1051 - 1099	OTHER EFFLUENTS SUCH AS COOLING TOWER DISCHARGE, DISCHARGE FROM HOLDING PONDS, ETC...
1100 - 1249	IN PLANT SAMPLES
1435 - 1454	SEPARATE INFLUENT POINTS/WATER SOURCES
15XX	INFLUENT ASSOCIATED WITH EFFLUENT 10XX
2000	BLANK FOR VOLATILE ORGANICS
3000 - 3099	GROUND WATER FROM WELL=01 TO 99
3100 - 3199	SEDIMENT SAMPLE (WATER BOTTOM)
3200 - 3299	SOIL SAMPLE
3300 - 3399	STREAM WATER SAMPLE
3400 - 3499	LAGOON SAMPLE
3500 - 3599	STORAGE TANK SAMPLE
3600 - 3699	LEACHATE SAMPLE
3700 - 3799	OTHER TYPE SAMPLE

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NONE	89/11/17	1200								
DEPTH: 0000 SUBSTRATE: SLUDGE										
DESCRIPTION: SAMPLE 002 COMPOSITE OF DRUMMED MAT										
			093934	01078	SILVER	S	MG/KG	SEDIMENT	0.3 U	
				01108	ALUMINUM	S	MG/KG	SEDIMENT	190	
				01003	ARSENIC		MG/KG	SEDIMENT	0.5 M	
				01008	BARIUM	S	MG/KG	SEDIMENT	8.13	
				01013	BERYLLIUM	S	MG/KG	SEDIMENT	0.05 U	
				00917	CALCIUM	S	MG/KG	SEDIMENT	3470	QS
				01028	CADMIUM	S	MG/KG	SEDIMENT	0.3 U	
				01038	COBALT	S	MG/KG	SEDIMENT	7.83	
				01029	CHROMIUM	S	MG/KG	SEDIMENT	13.3	
				01043	COPPER	S	MG/KG	SEDIMENT	38.6	
				01170	IRON	S	MG/KG	SEDIMENT	5678	QS
				71921	MERCURY	S	MG/KG	SEDIMENT	0.1 U	
				99999	POTASSIUM		MG/KG	SEDIMENT	97.2 J	
				00924	MAGNESIUM	S	MG/KG	SEDIMENT	166	
				01053	MANGANESE	S	MG/KG	SEDIMENT	65.9	
				00934	SODIUM	S	MG/KG	SEDIMENT	2356 J	
				01068	NICKEL	S	MG/KG	SEDIMENT	955	
				01052	LEAD	S	MG/KG	SEDIMENT	27.8	QS
				01098	ANTIMONY	S	MG/KG	SEDIMENT	0.8 U	
				01148	SELENIUM	S	MG/KG	SEDIMENT	0.2 U	QR
				34480	THALLIUM	S	MG/KG	SEDIMENT	0.2 U	
				01088	VANADIUM	S	MG/KG	SEDIMENT	1.25	
				01093	ZINC	S	MG/KG	SEDIMENT	78.6	
				00721	CYANIDE	S	MG/KG	SEDIMENT	1 U	
NONE	89/11/15	1200								
DEPTH: 0000 SUBSTRATE: AQUEOUS										
DESCRIPTION: SAMPLE 003 FIELD BLANK										
			093935	01077	SILVER		UG/L	TOTAL	6 U	
				01105	ALUMINUM		UG/L	TOTAL	81 M	
				01002	ARSENIC		UG/L	TOTAL	2 U	
				01007	BARIUM		UG/L	TOTAL	5 U	
				01012	BERYLLIUM		UG/L	TOTAL	1 U	
				00916	CALCIUM		MG/L	TOTAL	0.2 M	
				01027	CADMIUM		UG/L	TOTAL	6 U	
				01037	COBALT		UG/L	TOTAL	7 U	
				01034	CHROMIUM		UG/L	TOTAL	15 U	
				01042	COPPER		UG/L	TOTAL	8 U	
				01045	IRON		UG/L	TOTAL	54 U	
				71900	MERCURY		UG/L	TOTAL	0.2 U	QH