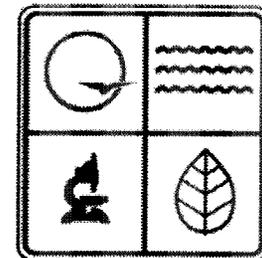


Missouri Department of Natural Resources
Environmental Services Program



Order ID 120724003

Program, Contact: ESP Brian Allen

Report Date: 07/25/2012

LDPR/JobCode: FEEJE / NJ12ERAK



Sample: AB82168



Customer #: 1202211

Facility ID: 120628-2135-CRJ

County: Jackson

Site: Detray Plating Fire

Sample Reference ID:

Collector: ROARKE HOLZSCHUH

Affiliation: EER-KCRO

Collect Date: 7/5/2012 2:50:00PM

Entry Point:

Sample Comment: Grab from pool between culvert and dam. Cyanide container not sent to contract lab; recollected at a later date.

UTM-Easting
4328244E

Northing
374260N

Precision
21.1 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	NO RESULT	04	mg/L		Contract Lab Dep
Field Dissolved Oxygen	Field Dissolved Oxygen	7.10		mg/L		SM 4500-O-G
Field pH	Field pH	8.17		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	928 µS/cm				SM 2510
Field Temperature	Field Temperature	32.6 ° C				EPA 170.1
Hardness as CaCO3-TR-C	Hardness as CaCO3-TR-C	285	04	mg/L		Contract Lab Dep
Hexavalent Chromium by Contract Lab	Hexavalent Chromium by Contract Lab	47.4	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Antimony	2.37	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Arsenic	2.06	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Beryllium	<0.33	02, 04, 09, ND	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Cadmium	336	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Calcium	82900	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Chromium	176	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Copper	499	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Lead	9.75	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Magnesium	18800	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Mercury	0.009	02, 04, 09, 05	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Nickel	2100	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Selenium	1.62	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Silver	0.093	02, 04, 05, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Thallium	0.020	02, 04, 05, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Zinc	599	02, 04, 09	µg/L		Contract Lab Dep

Sample: AB82169**Customer #:** 1202212**Facility ID:** 120628-2135-CRJ**County:** Jackson**Collector:** ROARKE HOLZSCHUH**Entry Point:****Sample Comment:** Grab from between dam and lake, (mixing area).**Site:** Detray Plating Fire**Sample Reference ID:****Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 3:15:00PM**UTM-Easting**
4328750E**Northing**
0374275N**Precision**
22.7 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	2.27	02, 04, 09	mg/L		Contract Lab Dep
Field Dissolved Oxygen	Field Dissolved Oxygen	2.37		mg/L		SM 4500-O-G
Field pH	Field pH	7.53		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	986 µS/cm				SM 2510
Field Temperature	Field Temperature	27.8 ° C				EPA 170.1
Hardness as CaCO3-TR-C	Hardness as CaCO3-TR-C	287	04	mg/L		Contract Lab Dep
Hexavalent Chromium by Contract Lab	Hexavalent Chromium by Contract Lab	2.50	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Antimony	2.31	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Arsenic	3.61	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Beryllium	<0.33	02, 04, 09, ND	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Cadmium	510	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Calcium	86100	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Chromium	374	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Copper	423	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Lead	15.5	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Magnesium	17500	02, 04, 09	mg/L		Contract Lab Dep
Metals-Total Recoverable Water	Mercury	0.047	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Nickel	3030	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Selenium	1.60	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Silver	0.785	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Thallium	0.022	02, 04, 05, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Zinc	667	02, 04, 09	µg/L		Contract Lab Dep

Sample: AB82170**Customer #:** 1202213**Facility ID:** 120628-2135-CRJ**County:** Jackson**Collector:** ROARKE HOLZSCHUH**Entry Point:****Sample Comment:** Grab soil from mixing zone.**Site:** Detray Plating Fire**Sample Reference ID:****Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 3:30:00PM**UTM-Easting**
4328750E**Northing**
0374275N**Precision**
22.7 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	2479	02, 04, 09	mg/kg		Contract Lab Dep
Hexavalent Chromium	Hexavalent Chromium	0.097	02, 04, 09	mg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Antimony	3230	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Arsenic	6880	02, 04, 09	µg/kg		Contract Lab Dep

Sample: AB82170**Customer #:** 1202213**Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 3:30:00PM**Entry Point:****Sample Comment:** Grab soil from mixing zone.**UTM-Easting**
4328750E**Northing**
0374275N**Precision**
22.7 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Metals-Total Recoverable Soil	Beryllium	473	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Cadmium	682000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Chromium	1050000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Copper	1270000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Lead	160000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Mercury	13.3	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Nickel	2750000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Selenium	1290	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Silver	2170	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Thallium	120	02, 04, 05, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Zinc	8170000	02, 04, 09	µg/kg		Contract Lab Dep
Percent Moisture	Percent Moisture	44.3	02, 04	%		Contract Lab Dep

Sample: AB82171**Customer #:** 1202214**Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 3:50:00PM**Entry Point:****Sample Comment:** Grab from Lake outfall opposite end from inlet. Cyanide and Hexavalent Chromium sample containers not sent to contract lab; recollected at a later date.**UTM-Easting**
4328960E**Northing**
0374349N**Precision**

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	NO RESULT	04	mg/L		Contract Lab Dep
Field Dissolved Oxygen	Field Dissolved Oxygen	5.81		mg/L		SM 4500-O-G
Field pH	Field pH	7.60		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	312.5 µS/cm				SM 2510
Field Temperature	Field Temperature	32.8 °C				EPA 170.1
Hardness as CaCO3-TR-C	Hardness as CaCO3-TR-C	103	04	mg/L		Contract Lab Dep
Hexavalent Chromium by Contract Lab	Hexavalent Chromium by Contract Lab	NO RESULT	04	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Antimony	0.329	02, 04, 05, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Arsenic	4.90	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Beryllium	<0.33	02, 04, 09, ND	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Cadmium	0.964	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Calcium	29600	02, 04, 09	mg/L		Contract Lab Dep
Metals-Total Recoverable Water	Chromium	4.39	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Copper	8.94	02, 04, 09	µg/L		Contract Lab Dep

Sample: AB82171**Customer #:** 1202214**Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 3:50:00PM**Entry Point:****Sample Comment:**

Grab from Lake outfall opposite end from inlet. Cyanide and Hexavalent Chromium sample containers not sent to contract lab; recollected at a later date.

Precision**UTM-Easting**
4328960E**Northing**
0374349N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Metals-Total Recoverable Water	Lead	9.80	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Magnesium	7040	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Mercury	0.036	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Nickel	14.7	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Selenium	<0.13	02, 04, 09, ND	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Silver	<0.071	02, 04, 09, ND	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Thallium	0.062	02, 04, 05, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Zinc	97.2	02, 04, 09	µg/L		Contract Lab Dep

Sample: AB82172**Customer #:** 1202215**Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 3:50:00PM**Entry Point:****Sample Comment:**

Soil grab from shore near outfall across lake from inlet.

Precision

25.0 M

UTM-Easting
4328960E**Northing**
0374391N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	<0.66	02, 04, 09, ND	mg/kg		Contract Lab Dep
Hexavalent Chromium	Hexavalent Chromium	0.011	02, 04, 05, 09	mg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Antimony	960	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Arsenic	28000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Beryllium	930	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Cadmium	4540	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Chromium	8040	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Copper	48700	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Lead	33800	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Mercury	24.2	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Nickel	47500	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Selenium	421	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Silver	170	02, 04, 05, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Thallium	56	02, 04, 05, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Zinc	809000	02, 04, 09	µg/kg		Contract Lab Dep
Percent Moisture	Percent Moisture	28.0	02, 04	%		Contract Lab Dep

Sample: AB82173**Customer #:** 1202878**Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 4:05:00PM**Entry Point:****Sample Comment:** Soil grab in dry ditch flow path prior to entering low flow wet ditch.**UTM-Easting**
4328529E**Northing**
0374188N**Precision**
33.4 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	2320	02, 04, 09	mg/kg		Contract Lab Dep
Hexavalent Chromium	Hexavalent Chromium	32.8	02, 04, 09	mg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Antimony	679	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Arsenic	10900	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Beryllium	813	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Cadmium	538000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Chromium	494000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Copper	483000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Lead	45300	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Mercury	8.00	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Nickel	2610000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Selenium	1150	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Silver	960	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Thallium	319	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Zinc	1160000	02, 04, 09	µg/kg		Contract Lab Dep
Percent Moisture	Percent Moisture	17.1	02, 04	%		Contract Lab Dep

Sample: AB82174**Customer #:** 1202879**Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 4:10:00PM**Entry Point:****Sample Comment:** Water grab from "clear" low flowing ditch upgrade, from mixing.**UTM-Easting**
4328528E**Northing**
0374190N**Precision**
30.1 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	0.271	02, 04, 09	mg/L		Contract Lab Dep
Field Dissolved Oxygen	Field Dissolved Oxygen	5.19		mg/L		SM 4500-O-G
Field pH	Field pH	7.81		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	870 µS/cm				SM 2510
Field Temperature	Field Temperature	27.2 ° C				EPA 170.1
Hardness as CaCO3-TR-C	Hardness as CaCO3-TR-C	408	04	mg/L		Contract Lab Dep
Hexavalent Chromium by Contract Lab	Hexavalent Chromium by Contract Lab	13.6	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Antimony	11.9	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Arsenic	21.3	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Beryllium	1.59	02, 04, 09	µg/L		Contract Lab Dep

Sample: AB82174**Customer #: 1202879****Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 4:10:00PM**Entry Point:****Sample Comment:** Water grab from "clear" low flowing ditch upgrade, from mixing.**UTM-Easting**
4328528E**Northing**
0374190N**Precision**
30.1 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Metals-Total Recoverable Water	Cadmium	1830	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Calcium	122000	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Chromium	3690	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Copper	2150	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Lead	404	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Magnesium	24800	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Mercury	0.271	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Nickel	5690	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Selenium	3.94	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Silver	7.05	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Thallium	0.546	02, 04, 09	µg/L		Contract Lab Dep
Metals-Total Recoverable Water	Zinc	12400	02, 04, 09	µg/L		Contract Lab Dep

Sample: AB82175**Customer #: 1202880****Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/24/2012 4:20:00PM**Entry Point:****Sample Comment:** Soil grab from clear low flow ditch. Contract analytical issues section of the report identified results indicative of a heterogeneous sample matrix.**UTM-Easting**
4328528E**Northing**
0374190N**Precision**
30.1 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	1.03	02, 04, 05, 09	mg/kg		Contract Lab Dep
Hexavalent Chromium	Hexavalent Chromium	1.91	02, 04, 09	mg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Antimony	743	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Arsenic	9560	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Beryllium	783	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Cadmium	14300	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Chromium	881000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Copper	607000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Lead	131000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Mercury	32.8	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Nickel	349000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Selenium	520	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Silver	697	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Thallium	208	02, 04, 05, 09	µg/kg		Contract Lab Dep

Sample: AB82175**Customer #:** 1202880**Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/24/2012 4:20:00PM**Entry Point:****Sample Comment:**

Soil grab from clear low flow ditch. Contract analytical issues section of the report identified results indicative of a heterogeneous sample matrix.

Precision
30.1 M**UTM-Easting**
4328528E**Northing**
0374190N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Metals-Total Recoverable Soil	Zinc	1200000	02, 04, 09	µg/kg		Contract Lab Dep
Percent Moisture	Percent Moisture	35.1	02, 04	%		Contract Lab Dep

Sample: AB82176**Customer #:** 1202216**Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 4:40:00PM**Entry Point:****Sample Comment:**

Soil grab background from Doult Lake.

Precision
24.1 M**UTM-Easting**
4325910E**Northing**
0377438N

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	<0.68	02, 04, 09, ND	mg/kg		Contract Lab Dep
Hexavalent Chromium	Hexavalent Chromium	0.030	02, 04, 09	mg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Antimony	274	02, 04, 05, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Arsenic	11500	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Beryllium	998	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Cadmium	500	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Chromium	21000	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Copper	19900	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Lead	25600	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Mercury	39.4	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Nickel	23700	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Selenium	445	02, 04, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Silver	86	02, 04, 05, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Thallium	350	02, 04, 05, 09	µg/kg		Contract Lab Dep
Metals-Total Recoverable Soil	Zinc	107000	02, 04, 09	µg/kg		Contract Lab Dep
Percent Moisture	Percent Moisture	35.1	02, 04	%		Contract Lab Dep

Sample: AB82177**Customer #: 1202217****Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/5/2012 4:40:00PM**Entry Point:****Sample Comment:** Water grab from Douth Lake.**UTM-Easting**
4325914E**Northing**
0374434N**Precision**
20.7 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	<0.0011	02, 04, 09, ND	mg/L		Contract Lab Dep
Field Dissolved Oxygen	Field Dissolved Oxygen	7.49		mg/L		SM 4500-O-G
Field pH	Field pH	8.23		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	297.6 μ S/cm				SM 2510
Field Temperature	Field Temperature	33.1 ° C				EPA 170.1
Hardness as CaCO3-TR-C	Hardness as CaCO3-TR-C	104	04	mg/L		Contract Lab Dep
Hexavalent Chromium by Contract Lab	Hexavalent Chromium by Contract Lab	0.034	02, 04, 05, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Antimony	0.370	02, 04, 05, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Arsenic	2.50	02, 04, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Beryllium	<0.33	02, 04, 09, ND	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Cadmium	0.034	02, 04, 05, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Calcium	37800	02, 04, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Chromium	0.474	02, 04, 05, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Copper	1.27	02, 04, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Lead	0.742	02, 04, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Magnesium	2390	02, 04, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Mercury	0.034	02, 04, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Nickel	1.97	02, 04, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Selenium	<0.13	02, 04, 09, ND	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Silver	<0.071	02, 04, 09, ND	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Thallium	0.013	02, 04, 05, 09	μ g/L		Contract Lab Dep
Metals-Total Recoverable Water	Zinc	6.50	02, 04, 09	μ g/L		Contract Lab Dep

Sample: AB82178**Customer #: 1202221****Facility ID:** 120628-2135-CRJ**County:** Jackson**Site:** Detray Plating Fire**Sample Reference ID:****Collector:** ROARKE HOLZSCHUH**Affiliation:** EER-KCRO**Collect Date:** 7/9/2012 2:00:00PM**Entry Point:****Sample Comment:** Grab from shoreline of Crisp Lake near NE outfall, opposite shore from temporary dam.**UTM-Easting**
432896E**Northing**
0374349N**Precision**
22.4 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Cyanide	Cyanide	<0.054	02, 04, 09, ND	mg/L		Contract Lab Dep
Field Dissolved Oxygen	Field Dissolved Oxygen	3.3		mg/L		SM 4500-O-G
Field pH	Field pH	7.3		pH Units		EPA 150.1
Field Specific Conductivity	Field Specific Conductivity	411 μ S/cm				SM 2510

Sample: AB82178



Customer #: 1202221

Facility ID: 120628-2135-CRJ

County: Jackson

Site: Detray Plating Fire

Sample Reference ID:

Collector: ROARKE HOLZSCHUH

Affiliation: EER-KCRO

Collect Date: 7/9/2012 2:00:00PM

Entry Point:

Sample Comment: Grab from shoreline of Crisp Lake near NE outfall, opposite shore from temporary dam.

UTM-Easting
432896E

Northing
0374349N

Precision
22.4 M

Test	Parameter	Result	Qualifier	Units	QC Batch ID	Method
Field Temperature	Field Temperature	27.1°C				EPA 170.1
Hexavalent Chromium by Contract Lab	Hexavalent Chromium by Contract Lab	<0.018	02, 04, 09, ND	µg/L		Contract Lab Dep

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Chris Boldt, Laboratory Manager
Environmental Services Program
Division of Environmental Quality

Qualifier Descriptions

- | | |
|----------------------------------------------------------|-----------------------------------------------------|
| 01 Improper collection method | 02 Improper preservation |
| 03 Exceeded holding time | 04 Analyzed by Contract Laboratory |
| 05 Estimated value, detected below PQL | 06 Estimated value, QC data outside limits |
| 07 Estimated value, analyte outside calibration range | 08 Analyte present in blank at > 1/2 reported value |
| 09 Sample was diluted during analysis | 10 Laboratory error |
| 11 Estimated value, matrix interference | 12 Insufficient quantity |
| 13 Estimated value, true result is >= reported value | 14 Estimated value, non-homogeneous sample |
| 15 No Result - Failed Quality Controls Requirements | 16 Not analyzed - related analyte not detected |
| 17 Results in dry weight | 18 Sample pH is outside the acceptable range |
| 19 Estimated value | 20 Not analyzed - Instrument failure |
| 21 No result - spectral interference | 22 pH was performed at the Laboratory |
| 23 Contract Lab specific qualifier - see sample comments | 24 No result - matrix interference |
| 25 No Result: Excessive Chlorination | 26 No Result: Excessive Dechlorination |
| ND Not detected at reported value | |

