

ENVIRONMENTAL SERVICES, INC.

524 S. NEW HOPE ROAD
RALEIGH, NORTH CAROLINA 27610

919-212-1760 • FAX 919-212-1707

www.environmentalservicesinc.com

RECEIVED

JAN 19 2012

NCDEMR MRO IHSB

October 4, 2011

Ms. Roberta Proctor
Western Area Environmental Chemist
Hazardous Waste Section - Division of Waste Management
NC Department of Environment & Natural Resources
PO Box 384
Lake Lure, NC 28746

RE Groundwater and Stream Assessment Report Addendum
Merchants Metals
Statesville, Iredell County, North Carolina
ESI Project ER10-125.02

Dear Ms. Proctor:

Environmental Services, Inc., (ESI) on behalf of Merchants Metals, Inc. is pleased to submit this Addendum to the August 29, 2011 Groundwater and Stream Assessment Report for the referenced property. This Addendum presents the stormwater runoff results for sampling completed on September 6, 2011.

On September 6, 2011, ESI personnel mobilized to the property to collect stormwater runoff samples during the storm event that occurred on that day. Stormwater runoff samples were collected from culverts related to the northern storage area (RO-1); southern storage area (RO-2); and the main plant building/former galvanizing building area (RO-4). A runoff sample was collected directly off the pavement, just to the west of the former galvanizing building (RO-3). Attached Figure 7 shows the sample locations. Water was flowing at all of the culverts at the time of the sampling and water was flowing off the pavement at RO-3. The samples collected were analyzed for zinc per SW-846 6010C with SM 3030C preparation as well as for lead and cadmium per SW-846 6020A with SM 3030C preparation. The laboratory results indicate zinc concentrations at all four stormwater runoff locations that exceeded the surface water standard and the lead concentration at RO-3 (pavement runoff) that exceeded the surface water standard. The laboratory results are summarized on attached Table 7. The laboratory reports are provided as an attachment.

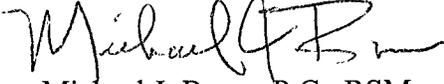
Based on our September 6, 2011 site visit, the location of the suspected spring has been changed on all of the figures that were included in the August 29, 2011 report since it appears to be located further to the south that previously depicted. The corrected figures are included as an attachment.

Stormwater runoff samples collected on September 6, 2011 indicated concentrations of zinc and lead (at one location) above regulatory standards.

If you have any questions or comments, please contact me at (919) 212-1760.

Sincerely,

ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink, appearing to read "Michael J. Burns".

Michael J. Burns, P.G., RSM
VP, Senior Manager
Site Assessment and Remediation

ER10-125.02

Enclosure

cc: Merchants Metals, Inc., Rudy Friedemann
Merchants Metals, Stacy West

TABLE 7
SUMMARY OF STORMWATER RUNOFF ANALYTICAL DATA
 MERCHANTS METALS
 STATESVILLE, IREDELL COUNTY, NORTH CAROLINA
 ESI PROJECT NO. ER10-125.02

Sample No.	Date	Zinc	Lead	Cadmium
RO-1	9/6/2011	823	10.6	0.500J
RO-2	9/6/2011	1300	0.900J	0.600J
RO-3	9/6/2011	3710	77.8	1.10J
RO-4	9/6/2011	1000	5.6	0.700J
SW Standard	----	50	25	2

Notes:

- 1) All concentrations expressed in micrograms per liter (ug/L).
- 2) SW Standard = 15A NCAC 2B Fresh Water Quality Standards.
- 3) Highlighted Concentration Exceeds the NC 2L Standard.
- 4) J-flag = Concentration detected between the MDL and LCL.

TABLE 7
SUMMARY OF STORMWATER RUNOFF ANALYTICAL DATA
 MERCHANTS METALS
 STATESVILLE, IREDELL COUNTY, NORTH CAROLINA
 ESI PROJECT NO. ER10-125.02

Sample No	Date	Zinc	Lead	Cadmium
RO-1	9/6/2011	823	10.6	0.500J
RO-2	9/6/2011	1300	0.900J	0.600J
RO-3	9/6/2011	3710	77.8	1.10J
RO-4	9/6/2011	1000	5.6	0.700J
SW Standard	----	50	25	2

Notes:

- 1) All concentrations expressed in micrograms per liter (ug/L).
- 2) SW Standard = 15A NCAC 2B Fresh Water Quality Standards.
- 3) Highlighted Concentration Exceeds the NC 2L Standard.
- 4) J-flag = Concentration detected between the MDL and LCL.



Laboratory Report of Analysis

To: Mike Burns
Environmental Services, Inc.
524 S. New Hope Road
Raleigh, NC 27610

Report Number: 31102396

Client Project: Merchants Metals

Dear Mike Burns,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by: Michael Page
Date: 2011.09.16 11:51:24 -05'00'

Michael D. Page
Project Manager
michael.page@sgs.com

Date

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < LOD)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Amount detected is between the Method Detection Limit and the Lower Calibration Limit
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.



Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
RO-1	31102396001	09/06/2011 10:40	09/07/2011 12:50	Water
RO-2	31102396002	09/06/2011 10:52	09/07/2011 12:50	Water
RO-3	31102396003	09/06/2011 11:37	09/07/2011 12:50	Water
RO-4	31102396004	09/06/2011 11:45	09/07/2011 12:50	Water

Print Date: 09/16/2011

N.C. Certification # 481

SGS North America Inc.

5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 f 910.350.1557 www.us.sgs.com

Member of SGS Group



Results of RO-1

Client Sample ID: **RO-1**
Client Project ID: **Merchants Metals**
Lab Sample ID: **31102396001-A**
Lab Project ID: **31102396**

Collection Date: **09/06/2011 10:40**
Received Date: **09/07/2011 12:50**
Matrix: **Water**

Results by SW-846 6010C

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Zinc	823		2.26	20.0	ug/L	1	09/09/2011 17:38

Batch Information

Analytical Batch: **MIP1236**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **PSW**
Analytical Date/Time: **09/09/2011 17:38**

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**



Results of RO-1

Client Sample ID: **RO-1**
Client Project ID: **Merchants Metals**
Lab Sample ID: 31102396001-A
Lab Project ID: 31102396

Collection Date: 09/06/2011 10:40
Received Date: 09/07/2011 12:50
Matrix: Water

Results by SW-846 6020A

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	10.6		0.640	5.00	ug/L	10	09/7/2011 18:36
Cadmium	0.500	J	0.278	5.00	ug/L	10	09/9/2011 15:33

Batch Information

Analytical Batch: **MMS1088**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **09/07/2011 18:36**

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1089**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **09/09/2011 15:33**

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**



Results of RO-2

Client Sample ID: **RO-2**
Client Project ID: **Merchants Metals**
Lab Sample ID: 31102396002-A
Lab Project ID: 31102396

Collection Date: 09/06/2011 10:52
Received Date: 09/07/2011 12:50
Matrix: Water

Results by SW-846 6010C

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Zinc	1300		22.6	200	ug/L	10	09/12/2011 11:44

Batch Information

Analytical Batch: **MIP1237**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **PSW**
Analytical Date/Time: **09/12/2011 11:44**

Prep Batch: **MX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**



Results of RO-2

Client Sample ID: **RO-2**
Client Project ID: **Merchants Metals**
Lab Sample ID: 31102396002-A
Lab Project ID: 31102396

Collection Date: 09/06/2011 10:52
Received Date: 09/07/2011 12:50
Matrix: Water

Results by SW-846 6020A

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	0.900	J	0.640	5.00	ug/L	10	09/7/2011 18:40
Cadmium	0.600	J	0.278	5.00	ug/L	10	09/9/2011 15:35

Batch Information

Analytical Batch: **MMS1088**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **09/07/2011 18:40**

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1089**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **09/09/2011 15:35**

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**



Results of RO-3

Client Sample ID: **RO-3**
Client Project ID: **Merchants Metals**
Lab Sample ID: 31102396003-A
Lab Project ID: 31102396

Collection Date: 09/06/2011 11:37
Received Date: 09/07/2011 12:50
Matrix: Water

Results by SW-846 6010C

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Zinc	3710		22.6	200	ug/L	10	09/12/2011 11:47

Batch Information

Analytical Batch: **MIP1237**
Analytical Method: **SW-846 6010C**
Instrument: ICP1
Analyst: **PSW**
Analytical Date/Time: 09/12/2011 11:47

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: 09/07/2011 14:05
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL



Results of RO-3

Client Sample ID: **RO-3**
Client Project ID: **Merchants Metals**
Lab Sample ID: 31102396003-A
Lab Project ID: 31102396

Collection Date: 09/06/2011 11:37
Received Date: 09/07/2011 12:50
Matrix: Water

Results by SW-846 6020A

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	77.8		0.640	5.00	ug/L	10	09/7/2011 18:43
Cadmium	1.10	J	0.278	5.00	ug/L	10	09/9/2011 15:38

Batch Information

Analytical Batch: **MMS1088**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **09/07/2011 18:43**

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1089**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **09/09/2011 15:38**

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**



Results of RO-4

Client Sample ID: **RO-4**
Client Project ID: **Merchants Metals**
Lab Sample ID: 31102396004-A
Lab Project ID: 31102396

Collection Date: 09/06/2011 11:45
Received Date: 09/07/2011 12:50
Matrix: Water

Results by SW-846 6010C

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Zinc	1000		2.26	20.0	ug/L	1	09/09/2011 17:49

Batch Information

Analytical Batch: **MIP1236**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **PSW**
Analytical Date/Time: **09/09/2011 17:49**

Prep Batch: **MXX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**



Results of RO-4

Client Sample ID: **RO-4**
Client Project ID: **Merchants Metals**
Lab Sample ID: 31102396004-A
Lab Project ID: 31102396

Collection Date: 09/06/2011 11:45
Received Date: 09/07/2011 12:50
Matrix: Water

Results by SW-846 6020A

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	5.60		0.640	5.00	ug/L	10	09/7/2011 18:46
Cadmium	0.700	J	0.278	5.00	ug/L	10	09/9/2011 15:41

Batch Information

Analytical Batch: **MMS1088**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **09/07/2011 18:46**

Prep Batch: **MX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1089**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **09/09/2011 15:41**

Prep Batch: **MX1493**
Prep Method: **SM 3030-C**
Prep Date/Time: **09/07/2011 14:05**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**



CHAIN OF CUSTODY RECORD
SGS North America Inc.

- Locations Nationwide
- Alaska
 - New Jersey
 - North Carolina
 - Maryland
 - New York
 - Ohio

www.us.sgs.com

103815

1 CLIENT: <u>ESI</u>					SGS Reference: <u>31102390</u>					PAGE <u>1</u> OF <u>1</u>	
CONTACT: <u>Mike Burns</u> PHONE NO.: <u>919 212 1760</u>					No CONTAINERS SAMPLE TYPE C= COMP G= GRAB Preservatives Used Analysis Required <u>3</u> <u>Pb, Pb, Cd 3030x</u>						
PROJECT: <u>Merchants Metals</u> SITE/PWSID#: <u>ER10-125.02</u>											
REPORTS TO:											
INVOICE TO: QUOTE #: P.O. NUMBER:											
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX						REMARKS	
	<u>KO-1</u>	<u>9/6/11</u>	<u>1040</u>	<u>Water</u>	<u>1</u>	<u>G</u>	<u>X</u>				
	<u>KO-2</u>	<u>↓</u>	<u>1052</u>	<u>↓</u>	<u>1</u>	<u>↓</u>	<u>X</u>				
	<u>KO-3</u>	<u>↓</u>	<u>1137</u>	<u>↓</u>	<u>1</u>	<u>↓</u>	<u>X</u>				
	<u>KO-4</u>	<u>↓</u>	<u>1145</u>	<u>↓</u>	<u>1</u>	<u>↓</u>	<u>X</u>				
5 Collected/Relinquished By: (1) <u>Bl</u> Date: <u>9/6/11</u> Time: <u>16:30</u> Received By: <u>Bl</u>					4 Shipping Carrier: _____ Samples Received Cold? (Circle) <u>YES</u> NO					Shipping Ticket No: _____ Temperature°C: <u>0.1</u>	
Relinquished By: (2) <u>Bl</u>					Special Deliverable Requirements: _____ Chain of Custody Seal: (Circle)					INTACT BROKEN <u>ABSENT</u>	
Relinquished By: (3) _____					Special Instructions: _____					Requested Turnaround Time:	
Relinquished By: (4) _____ Date: <u>9/7/11</u> Time: <u>12:50</u> Received By: <u>Bl</u>					<input type="checkbox"/> RUSH _____ Date Needed _____					<input type="checkbox"/> STD	

Page 12 of 13

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: ESI

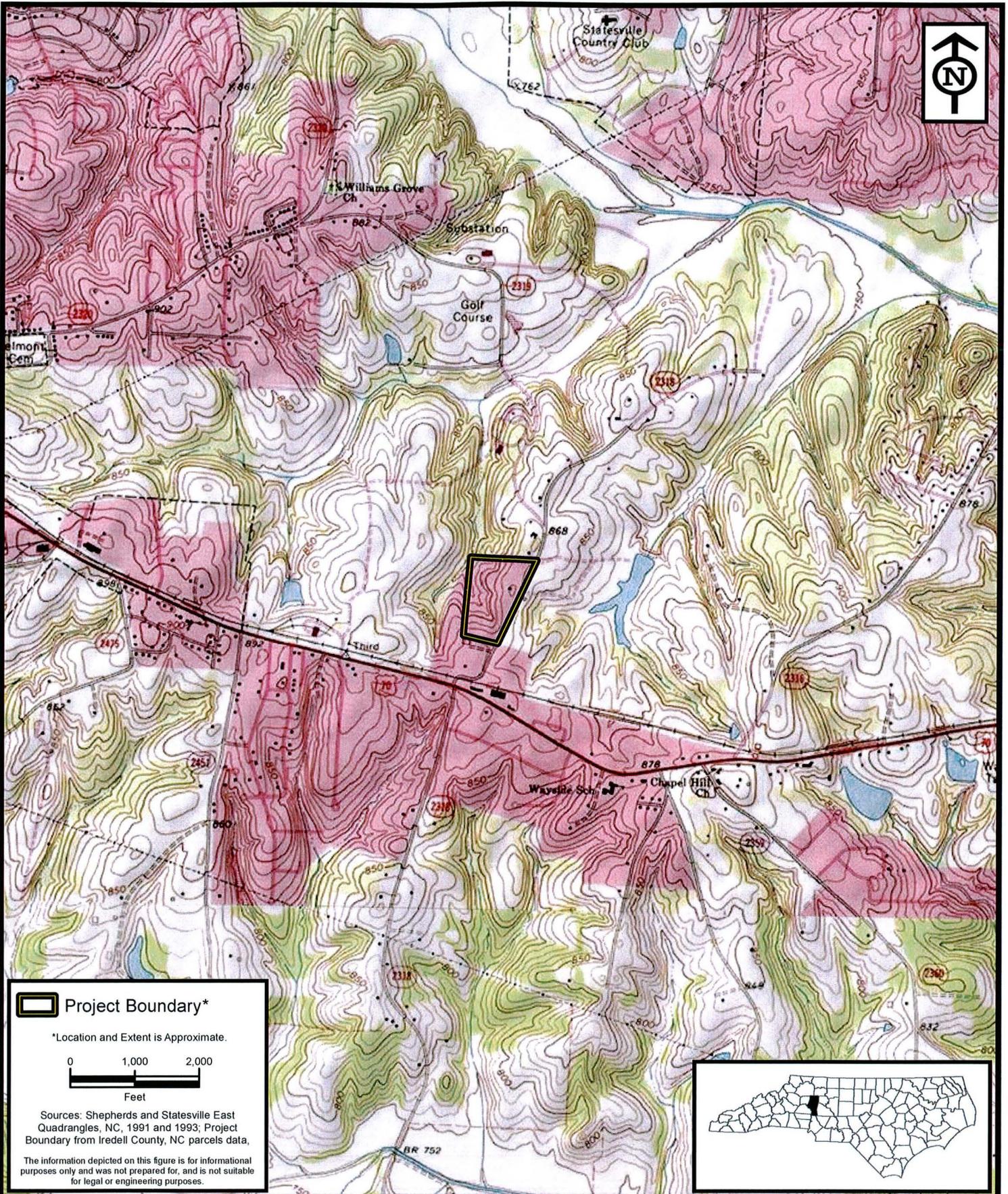
Work Order No.: 31102396

- | | | |
|-----|---|---|
| 1. | <input type="checkbox"/> Shipped | Notes: _____

_____ |
| | <input checked="" type="checkbox"/> Hand Delivered | |
| 2. | <input checked="" type="checkbox"/> COC Present on Receipt | |
| | <input type="checkbox"/> No COC | |
| | <input type="checkbox"/> Additional Transmittal Forms | |
| 3. | <input type="checkbox"/> Custody Tape on Container | |
| | <input checked="" type="checkbox"/> No Custody Tape | |
| 4. | <input checked="" type="checkbox"/> Samples Intact | |
| | <input type="checkbox"/> Samples Broken / Leaking | |
| 5. | <input checked="" type="checkbox"/> Chilled on Receipt Actual Temp.(s) in °C: <u>0.1</u> | |
| | <input type="checkbox"/> Ambient on Receipt | |
| | <input type="checkbox"/> Walk-in on Ice; Coming down to temp. | |
| | <input type="checkbox"/> Received Outside of Temperature Specifications | |
| 6. | <input checked="" type="checkbox"/> Sufficient Sample Submitted | |
| | <input type="checkbox"/> Insufficient Sample Submitted | |
| 7. | <input type="checkbox"/> Chlorine absent | |
| | <input checked="" type="checkbox"/> HNO3 < 2 | |
| | <input type="checkbox"/> HCL < 2 | |
| | <input type="checkbox"/> Additional Preservatives verified (see notes) | |
| 8. | <input checked="" type="checkbox"/> Received Within Holding Time | |
| | <input type="checkbox"/> Not Received Within Holding Time | |
| 9. | <input checked="" type="checkbox"/> No Discrepancies Noted | |
| | <input type="checkbox"/> Discrepancies Noted | |
| 10. | <input type="checkbox"/> No Headspace present in VOC vials | |
| | <input type="checkbox"/> Headspace present in VOC vials >6mm | |

Comments: _____

Inspected and Logged in by: TP
Date: Wed-9/7/11 00:00



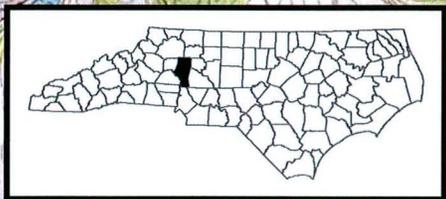
Project Boundary*

*Location and Extent is Approximate.

0 1,000 2,000
Feet

Sources: Shepherds and Statesville East
Quadrangles, NC, 1991 and 1993; Project
Boundary from Iredell County, NC parcels data.

The information depicted on this figure is for informational
purposes only and was not prepared for, and is not suitable
for legal or engineering purposes.



**ENVIRONMENTAL
SERVICES, INC.**

524 S. New Hope Road
Raleigh, North Carolina 27610
(919) 212-1760
(919) 212-1707 Fax
www.environmentalservicesinc.com

Project Location
Merchants Metals
Iredell County, North Carolina

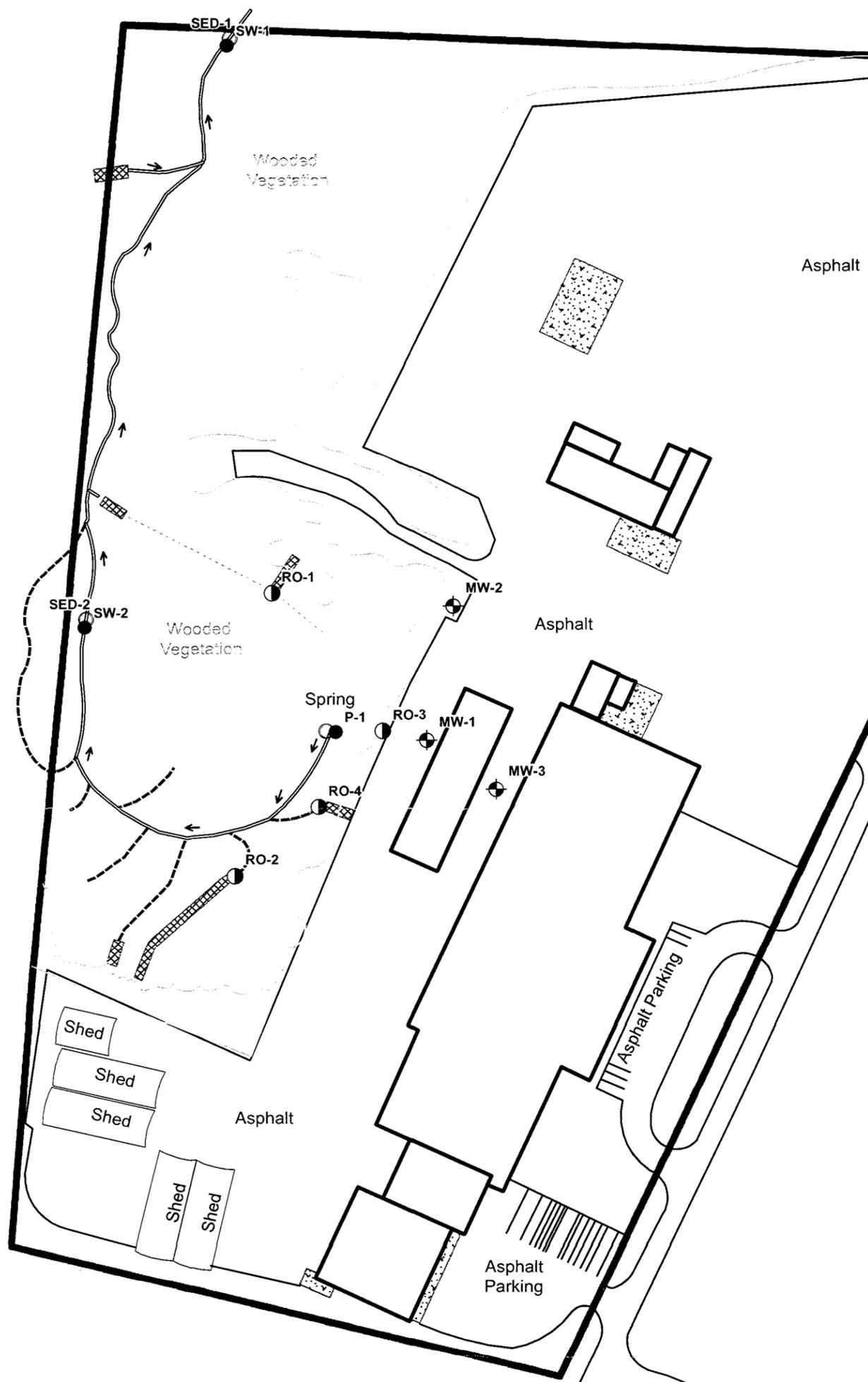
Project:	ER10125.02
Date:	Sep 2011
Drwn/Chkd:	KT/MB
Figure:	1



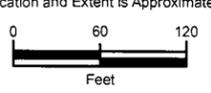
ENVIRONMENTAL SERVICES, INC.
524 S. New Hope Road
Raleigh, North Carolina 27610
(919) 212-1760
(919) 212-1707 Fax
www.environmentalservicesinc.com

Site Plan
Merchants Metals
Iredell County, North Carolina

Project:	ER10125.02
Date:	Sep 2011
Drwn/Chkd:	KT/MB
Figure:	2



- Project Boundary*
 - Vegetation*
 - Ditch*
 - Storm Water Channel*
 - Perennial Stream*
 - Monitoring Well*
 - Surface Water Runoff*
 - Sediment*
 - Surface Water*
 - Stream Flow
- *Location and Extent is Approximate.

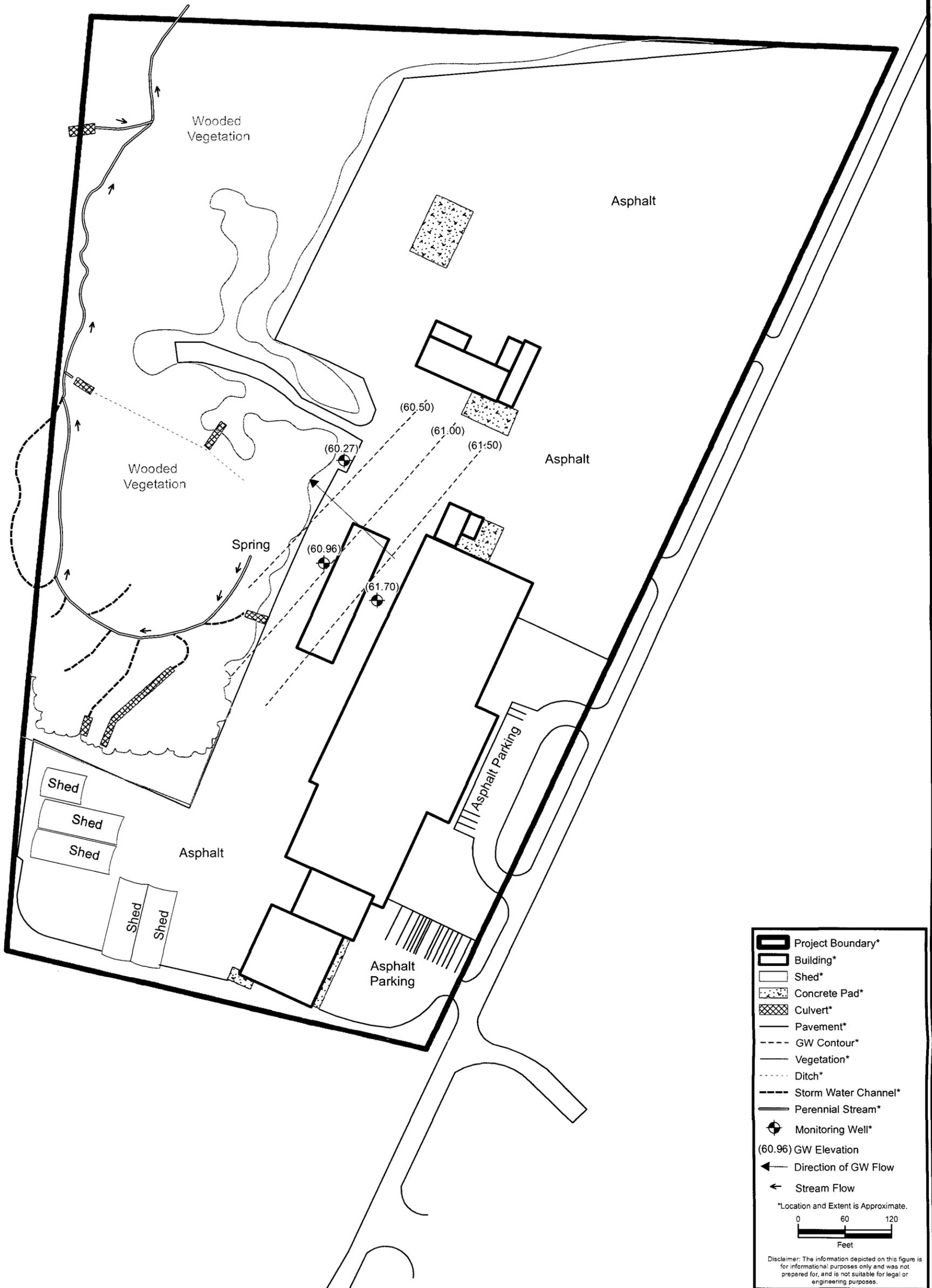


Disclaimer: The information depicted on this figure is for informational purposes only and was not prepared for, and is not suitable for legal or engineering purposes.

ENVIRONMENTAL SERVICES, INC.
524 S. New Hope Road
Raleigh, North Carolina 27610
(919) 212-1760
(919) 212-1707 Fax
www.environmentalserviceinc.com

Sample Locations
Merchants Metals
Iredell County, North Carolina

Project:	ER10125.02
Date:	Sep 2011
Drwn/Chkd:	KT/MB
Figure:	3



ENVIRONMENTAL SERVICES, INC.
524 S. New Hope Road
Raleigh, North Carolina 27610
(919) 212-1760
(919) 212-1707 Fax
www.environmentalservicesinc.com

Groundwater Contours
Merchants Metals
Iredell County, North Carolina

Project: ER10125.02
Date: Sep 2011
Drwn/Chkd: KT/MB
Figure: 4

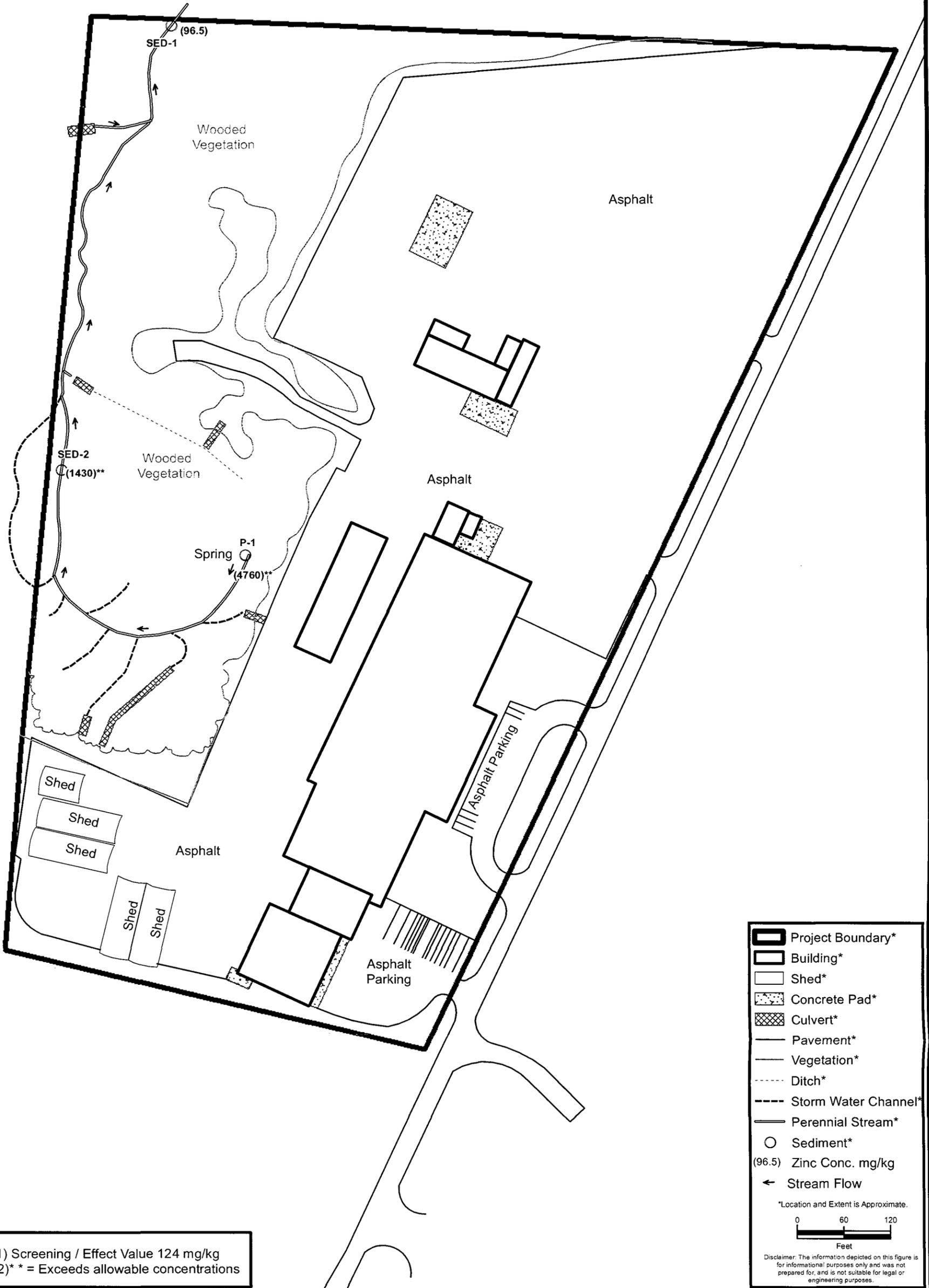


Note: 1) GW Standard = 1000 ug/L
 2) SW Standard = 50 ug/L
 3) ** = Exceeds applicable standard



Groundwater/ Surface Water Concentrations - Zinc
Merchants Metals
 Iredell County, North Carolina

Project: ER10125.02
 Date: Sep 2011
 Drwn/Chkd: KT/MB
 Figure: 5



Note: 1) Screening / Effect Value 124 mg/kg
 2) * * = Exceeds allowable concentrations

ENVIRONMENTAL SERVICES, INC.
 524 S. New Hope Road
 Raleigh, North Carolina 27610
 (919) 212-1760
 (919) 212-1707 Fax
 www.environmentalservicesinc.com

Sediment Concentrations - Zinc
Merchants Metals
 Iredell County, North Carolina

Project: ER10125.02
 Date: Sep 2011
 Drwn/Chkd: KT/MB
 Figure: 6



Note: 1) SW standard 50ug/L
 2) ** = Exceeds allowable concentrations

ENVIRONMENTAL SERVICES, INC.
 524 S. New Hope Road
 Raleigh, North Carolina 27610
 (919) 212-1760
 (919) 212-1707 Fax
 www.environmentalservicesinc.com

Stormwater Runoff Concentrations - Zinc
Merchants Metals
 Iredell County, North Carolina

Project: ER10125.02
 Date: Sep 2011
 Drwn/Chkd: KT/MB
 Figure: 7