

## Site Cleanup Questionnaire

Remediating parties interested in volunteering should prepare this form with the assistance of an environmental consultant. All cooperative parties are eligible for Branch-approved remedial actions. Answer all questions, based on current information, and provide written descriptions where needed.

NCDENR Site Name, City and County Surtronics, Inc., Raleigh, Wake County

1. Is the site located on or immediately adjacent to residential property, schools, day-care centers or other sensitive populations?  Y  N  
community center/park  
If yes, please explain on a separate page.
2. What is the distance (from site property line) to the nearest residence, school or day-care center? Please attach a map showing the site and nearest residence, school or daycare center. adjacent  
 Y  N
3. Is the site completely surrounded by a locked fence?  Y  N  
If no, please explain security measures at the site on a separate page.
4. Are site surface soils known to be contaminated?  Y  N  
If yes, or unknown, describe briefly on a separate page. - unknown, see attachment
5. Is site groundwater known to be contaminated?  Y  N  
If yes, or unknown, describe briefly on a separate page.
6. Is site sediment or surface water known to be contaminated?  Y  N  
If yes, or unknown, describe briefly on a separate page.
7. Has groundwater contamination affected any drinking water wells?  Y  N  
If yes, or unknown, please explain on a separate page.
8. What is the distance to the nearest downgradient drinking water well? no wells identified
9. What is the distance to the nearest downstream surface water intake? 1900 feet
10. Are hazardous vapors, air emissions or contaminated dust migrating into occupied residential, commercial or industrial areas?  Y  N  
If yes, or unknown, please explain on a separate page. - unknown, see attachment
11. Have hazardous substances known to have migrated off property at concentrations in excess of Branch unrestricted-use remediation goals?  Y  N  
If yes, or unknown, please explain on a separate page.
12. Has the local community expressed concerns about contamination at the site?  Y  N  
If yes, or unknown, please explain on a separate page.
13. Based on current information, are there any sensitive environments located on the property (sensitive environments are identified in the Remedial Investigation Work Plans section of the IHSB "Guidelines for Assessment and Cleanup" at <http://portal.ncdenr.org/web/wm/sf/sfavailabledocs>)?  Y  N

If yes, or unknown, please explain on a separate page.

14. Based on current information, has contamination from the site migrated into any sensitive environments?  Y  N

If yes, or unknown, please explain on a separate page.

15. Do site contaminants include radioactive or mixed radioactive and chemical wastes?  Y  N

If yes, or unknown, please explain on a separate page.

### Remediating Party Certification Statement

After first being duly sworn or affirmed, I, Lee Bradshaw, hereby state that: I am over the age of eighteen, I am competent to make this certification based upon my own personal knowledge and belief, and, to the best of my knowledge and belief, after thorough investigation, the information contained herein is accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information.



(Signature of Remediating Party Representative)

9-7-13

(Date)

Lee Bradshaw, General Manager

(Printed Name and Title of Remediating Party Representative)

Surtronics, Inc.

(Printed Name of Company)

STATE OF NC

COUNTY OF WAKE

I, LISA C. STEVENS, a Notary Public of said County and State, do hereby certify that LEE BRADSHAW personally appeared before me this day, produced proper identification in the form of PERSONALLY KNOW, was duly sworn and/or affirmed, and declared that he or she is the owner of the property referenced above or is a duly authorized agent of said owner and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is accurate and complete, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal the 6<sup>th</sup> day of SEPT, 2013.

  
Notary Public (signature)

My commission expires: 5-28-17

**Environmental Consultant Certification Statement**

After first being duly sworn or affirmed, I, Michael Jordan, hereby state that: I am over the age of eighteen, I am competent to make this certification based upon my own personal knowledge and belief, and, to the best of my knowledge and belief, after thorough investigation, the information contained herein is accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information.

*Michael Jordan*  
(Signature)

9/6/13

(Date)

Michael Jordan

(Printed Name)

Terracon

(Printed Name of Environmental Consultant)

STATE OF NC

COUNTY OF WAKE

I, LISA STEVENS, a Notary Public of said County and State, do hereby certify that MICHAEL JORDAN personally appeared before me this day, produced proper identification in the form of PERSONALLY KNOW, was duly sworn and/or affirmed, and declared that he or she is an environmental consultant for the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is accurate and complete, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal the 6<sup>th</sup> day of SEPT, 2013

*Lisa C. Stevens*  
Notary Public (signature)

My commission expires: 5-28-17



## Site Clean-up Questionnaire Supplemental Information

1. A park and community center is located adjacent to the southern property boundary.
2. Community center/park is identified as property number 8 on Exhibit 2.
4. Site surface soils have not been submitted for laboratory analysis. Based on the presence of on-site groundwater impacts, it is likely that site soils are impacted.
5. Six permanent, Type II wells were installed at the site and sampled once in July 2013. A summary of groundwater impacts is presented below.

Seven metals were detected at concentrations greater than their standards:

- **Arsenic** was detected in six samples with concentrations between 0.0047 milligrams per liter (mg/L) and 0.011 mg/L. Arsenic was detected above its 2L standard of 0.01 mg/L in one sample (MW-3).
- **Cadmium** was detected in one well (MW-3) at a concentration of 0.13 mg/L, which exceeds its 2L standard of 0.002 mg/L.
- **Lead** was detected in six samples with concentrations between 0.0068 mg/L and 0.019 mg/L. Lead was detected above its 2L standard of 0.015 mg/L in wells MW-2 (0.016 mg/L), MW-3 (0.019 mg/L), and MW-5 (0.016 mg/L).
- **Nickel** was detected in six samples with concentrations between 0.014 mg/L and 2.2 mg/L. Nickel was detected above its 2L standard of 0.1 mg/L in MW-2 (2.2 mg/L).
- **Selenium** was detected below its 2L standard of 0.02 mg/L in MW-3 (0.005 mg/L) and above its 2L standard in MW-5 (0.044 mg/L).
- **Thallium** does not have a 2L standard. It was detected in six samples with concentrations between 0.00066 mg/L and 0.041 mg/L.
- **Hexavalent chromium** was detected in laboratory samples collected from MW-1 (0.0047 mg/L) and MW-6 (0.0062 mg/L). Hexavalent chromium does not have a 2L standard. The EPA established RSL for hexavalent chromium is 0.00003 mg/L.

Nine VOCs were detected at concentrations greater than their standards:

- **1,1-Dichloroethane (1,1-DCA)** was detected a concentration below its 2L standard of 6 µg/L in MW-1 (1.5 µg/L) and above its standard in MW-3 (27 µg/L).
- **1,1-Dichloroethene (1,1-DCE)** was detected above its 2L standard of 7 µg/L in MW-1 and MW-3 at concentrations of 11 and 24 µg/L, respectively.
- **1,2-Dichloroethane (1,2-DCA)** was detected above its 2L standard of 0.4 µg/L in MW-2 at a concentration of 1.1 µg/L.



- **Bromodichloromethane** was detected above its 2L standard of 0.6 µg/L in MW-1 at a concentration of 5.3 µg/L.
- **Chloroform** was detected below its 2L standard in wells MW-2 and MW-6 and above its standard of 70 µg/L in MW-1 (220 µg/L) and MW-3 (500 µg/L).
- **Methyl tertiary butyl ether (MTBE)** was detected above its 2L standard of 20 µg/L in MW-2 (62 µg/L).
- **Methylene chloride** was detected above its 2L standard of 5 µg/L in MW-3 (16 µg/L).
- **Trichloroethene (TCE)** was detected above its 2L standard of 3 µg/L in wells MW-1 (560 µg/L), MW-3 (62 µg/L), and MW-4 (8.4 µg/L).
- **Vinyl Chloride** was detected above its 2L standard of 0.03 µg/L in MW-3 (1.6 µg/L).

8. No drinking water wells are known to exist near the site. The site is located within the City limits and the surrounding area is supplied potable water by the City of Raleigh. A detailed receptor survey has not yet been completed.

10. TCE and chloroform concentrations in groundwater exceeded the IHSB industrial screening concentrations for vapor intrusion. Based on the proximity of MW-1 to the building and the inferred direction of groundwater flow, there is a potential for intrusion of VOC vapors into the facility.